

# DISTRICT DISASTER MANAGEMENT PLAN (DDMP) 2022



DIVISION: DERA GHAZI KHAN

DISTRICT: LAYYAH

Prepared by:

Ishfaq Hussain Sial (ADC-Revenue)

Approved by:

Muhammad Shahbaz Hussain

(Deputy Commissioner Layyah)



# **TABLE OF CONTENTS**

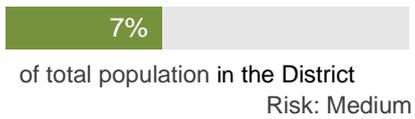
Executive Summary .....	3
Aim and Objectives .....	4
District Profile .....	5
District baseline/ Ref Map.....	11
Coordination Mechanism .....	13
DEOC.....	22
Duty Roaster .....	23
Risk Analysis .....	20
Mitigation Strategy .....	47
Early Warning System.....	48
Rescue Strategy .....	50
Humanitarian Assistance .....	51
Annex I: Identified sites for displaced persons .....	51
Annex II: List of Hazard prone villages/ Revenue Estates .....	54
Annex III: List of vulnerable Educational Institutions .....	64
Annex IV: List of Industries with their risk level .....	65
Annex V: List of NGOs working in the District .....	68
Annex VI: Contact list of main stakeholders / departments .....	70
Annex VII: List of volunteers .....	73
Annex VIII: Political Constituencies .....	74
Annex IX: Local Government .....	75
Annex X: Camp Management SOPs .....	80
Annex XI: Flood Protection Bunds .....	81
Annex XII: River Discharge Rates .....	84
Annex XII: List of Basic Terms .....	85

# EXECUTIVE SUMMARY

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

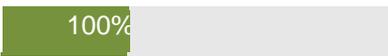


Estimated number of people at risk of Drought in 2022



Estimated number of people at risk of earthquake in 2022 of total population

Risk: Low



Estimated number of people at risk of epidemic Covid-19 in 2022 of total population

Risk: High

The local governments have a key role in identifying and Understanding the hazards and risks that could impact on the safety and sustainability of their communities. At local level, DDMA, with technical assistance from PDMA, will prepare District DRR/DRM Plan keeping in view the detailed analysis of risks and vulnerabilities of the area, mapping of capacities available with public and private sector, and clearly defined roles and responsibilities of district line departments to be performed in pre- and post-disaster phases. The District Disaster Management Plans will also provide long-term DRM vision, key priorities and financial arrangements necessary for implementing programs and activities aimed at making the local communities resilient to hazards and threats from potential climatic changes. The DDMPs will not entirely focus on structural or engineering solutions but equal importance will be given to non- structural aspects of DRM. DDMA will endorse the DDMP for final approval.

# 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, relief and rehabilitation at district level.
- To enhance the effectiveness and time-lines of emergency response through the clarification of goals, strategies, roles and responsibilities.
- To strengthen response coordination between government departments and humanitarian organizations i.e. (UN agencies, INGOs and NGOs).

## DISTRICT PROFILE

Layyah got the status of district in 1982 and comprised of three Tehsils Layyah, Karor Lal Eson and Choubara. Before coming under the administrative jurisdiction of district, Layyah was part of Muzafargarh District. These developments had impacts on the social, political and economic relationship of Layyah. Layyah is now part of Dera Ghazi Khan Division along with the district of Dera Ghazi Khan, Muzafargarh and Rajanpur. All these four districts make the southern zone of Punjab. It is situated between 30-45 North latitude and 70-71 East longitude. The total area covered by the district is 6,291 km<sup>2</sup> with a width from East to West of 88 km and a length from North to South of 78 km.

This District is surrounded in the north by Bhakkar, in the South by Muzafargarh, in the East by Jhang and D.G Khan Districts lies in the West. River Indus flows on its western side across which lies in district Bhakkar and on the South district Muzaffargarh. District Layyah comprises the three tehsils of namely Layyah, Karor Lal Eson and Choubara. Current population of District Layyah is 1,824,230 having Urban 321,505 (162,924 Male and 158,517 Female) and rural 1,502,725 (762,399 Male and 740,300 Female) of the total population. Total households reside in the district are 268,244.

Layyah is ranked at number 38 nationally with an education score of 66.76. The learning score of Layyah is 70.8. The readiness score of Layyah is 65.13 and the school infrastructure of Layyah score is 94.38 placing it a national rank of 23. The score reflects that most schools in Layyah have all basic facilities e.g. electricity, drinking water and functional toilets.

<b>Total Population</b>			<b>18,24,230</b>		
<b>No. of Tehsils</b>			<b>3</b>		
<b>Total Number of Mauza (Revenue Estates)</b>			<b>722</b>		
<b>Layyah</b>	<b>Karor</b>	<b>Choubara</b>	<b>325</b>	<b>234</b>	<b>163</b>
<b>Total No. of Flood Affected Mauza Jatt</b>			<b>102</b>		
<b>Layyah</b>		<b>Karor</b>	<b>75</b>	<b>27</b>	
<b>Low Risk</b>	<b>Medium Risk</b>	<b>High Risk</b>	<b>25</b>	<b>12</b>	<b>65</b>
<b>Area in (Sq Km)</b>			<b>6,291</b>		
<b>No. of Union Councils</b>			<b>48</b>		
<b>District Council</b>			<b>01</b>		
<b>Municipal Committees</b>			<b>05</b>		
<b>Police Stations</b>			<b>08</b>		
<b>No. of Riverine Police Check Posts</b>			<b>03</b>		
<b>Length East to West</b>			<b>88 Km</b>		
<b>Length North to South</b>			<b>78 KM</b>		

## GEOLOGY AND CLIMATOLOGY

The District Layyah has an extremely hot climate. The temperature in winter is low due to nearness to Koh e Suleman range of mountains and Thal desert of Tehsil Choubara. The Tehsil Choubara is almost barren and consists of range forest and sand dunes. It is actually a Range Land for animal grazing under the control of Forest and Range Management Department. The tehsil of Layyah and Karor are comparatively better developed agriculturally but they have also large tracks of sand dunes and uncultivated land.

The soils in the district can be divided into two broader categories. The area/strip that lies along river Indus is part of its active flood plain and composed of loamy and some stratified sandy soils that are found in young flood plains. The area lying next to this is part of Thal desert. Here rolling to hilly sandy soils of Aeolian deserts are found. The difference in soils structure and moisture regimes in the district has translated into difference in the natural vegetation.

In the riverine zone, thorny vegetation is found where as in the desert zone, desertic and semi desertic vegetation are found. In terms of natural use of land. Major portion of the district can be termed a rough grazing land. The areas lying along and closer to river Indus are able lands. Small pockets of the district are under the forest cover. Climatically Layyah is part of the hot, arid/dry zone of Pakistan. The average annual rainfall is less than 33 mm. The area receives most of the rainfall during summer. The summers are long and very harsh. Dust storms are quite powerful and common in the desert zone. In this zone, even during the summer, nights are very pleasant.

## OBJECTIVES

1. To deal with the flood like situation on emergent basis and to provide immediate complete medical cover for the safety of human livings and livestock.
2. To protect the vital installations
3. To ensure the compliance of the instructions received by the Go of the Punjab, Disaster Management Department in true letter and spirit.

## SOCIO-ECONOMIC INDICATORS (AVERAGE)

Sr. No.	Particulars	Year 2022 Layyah	Numbers
1	Population		1,824,230
2	No. of Tehsils	3	3
3	No. of UCs	48	48
4	No. of Revenue Estates		723
5	Population Density (people per km <sup>2</sup> )	290	178
6	Family Size		8
7	Pop Growth Rate	2.59(Census 2017)	4.0%
8	District GDP/Annual Income		90
9	Poverty Rate		30
10	Patient/Doctor Ratio		25
11	Average Mortality Rate (AMR)		0
12	Infant Mortality Rate(IMR)		54 /1000 live birth
13	Mother Mortality Rate (MMR)		227
14	Literacy Rate		92%
15	Punjab Malnutrition Rate (PMR)		29%
16	Malnutrition Rate in District Layyah		Stunting 29% & wasting 7%
17	Percentage of population having access to clean		65
18	Annual Crime		2809

## POPULATION

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (PLWs, disabled, aged)
1641734	941679	481430	356,501	338,090	198,408

Source/Note: Population Department

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Morter)
1,012,050	955,515	56,535

Source/Note: DDLG Office

### Area (in acres)

Total Area of District in Km <sup>2</sup>	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
6,291	1,172,291	920,291	252,000

### Literacy Rate

Overall	Rural		Urban		TOTAL	
	Male	Female	Male	Female	Male	Female
74%	29%	32%	58%	29%	87%	61%

Source/Note: Education Department Layyah

### Government Schools

		Schools	Enrollment
Total/ Overall			
Boys	Primary	105	14,109
	Middle	19	4,774
	High	17	8,190
Girls	Primary	99	11,214
	Middle	17	4,318
	High	07	2,872
Co-Education	Primary	0	0
	Middle	0	0
	High	0	0
Special Education		0	0

### Private Schools

		Schools	Enrollment
Total/ Overall			
Boys	Primary		
	Middle		
	High		
Girls	Primary		
	Middle		
	High		
Co-Education	Primary	82	79,938
	Middle	194	68,530
	High	72	35,630
Special Education		4	458

### Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	15	5	6	4	6	34
No of Students	7937	5237	238	1537	939	14975

### Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	67	7	-	15	74
Annual OPDs	1,069,224	1,880,378	-	115236	2,949,602
No of beds	192	540	-	101	732
Doctors Available	58	248	-	27	306
Paramedical staff	253	356	-	37	609
Ambulances available	20	Handed Over to Rescue 1122	-	2	20
Mobile Medical Units			-		

**Livestock:** Small Animals (goats, sheep etc.): **145,046** Big Animals (cows, buffalos, camel etc.) **174,313**

### 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
50%	56%	60%	40%	8%	15%	14%	30%	20%	54%	26%

### 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)
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1	2010	172607	58	102	18475	6459		
2	2015	28242	06	102				

## GENERAL INFORMATION

Particulars	Detail
Neighboring districts and their vulnerabilities	Bhakkar is at High Risk to Flood & Drought D.G.Khan is at High risk to River flood & Flash Flood Muzaffargarh is at High Risk to River Flood & Drought Jhang ia at High Risk To River Flood
Topographical Features	
Weather/Climate pattern	E.g. max. And min. temperature, annual precipitation, storms, heat waves, snow fall etc. Weather Mostly Dry & Hot ,Climate change posed its severe impacts on lively hood & likely hood
Major Rivers	Name of river, passing through areas along with length in the district Major Barrages and their Flood levels Indus River & Chanab
Major Nullahs / Streams	Name of river, passing through areas along with length in the district Flood levels
Motorway/Highway	Vulnerable points of motorway/highway
Railways	Vulnerable points of Railway
Geological features	e.g. fault line, mountainous areas etc.

## DAMS (INCLUDING SMALL DAMS)

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

## 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
Kotla Haji Shah	16km	Layyah	Kot Sultan	Shahwala Groyne	X:7055148 Y: 305928	
City Protection Bund	7km	Layyah			X:7055565 Y: 3057340	

## 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:					

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates	
		X: Y:			X: Y:	

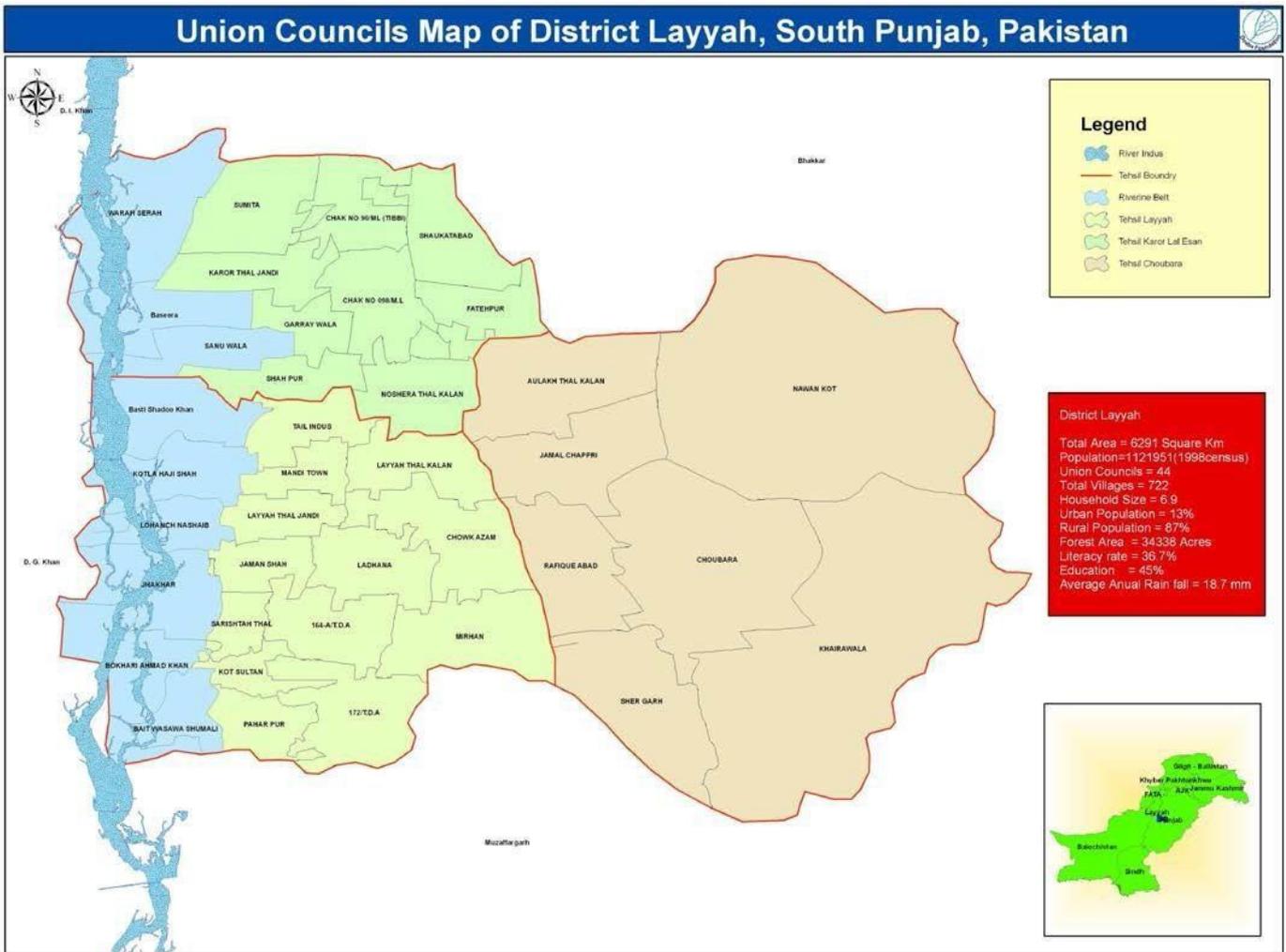
**Airport / Landing Strips**

Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates	
		X: Y:			X: Y:	
		X: Y:			X: Y:	

**Government. storage facilities/warehouses in the district**

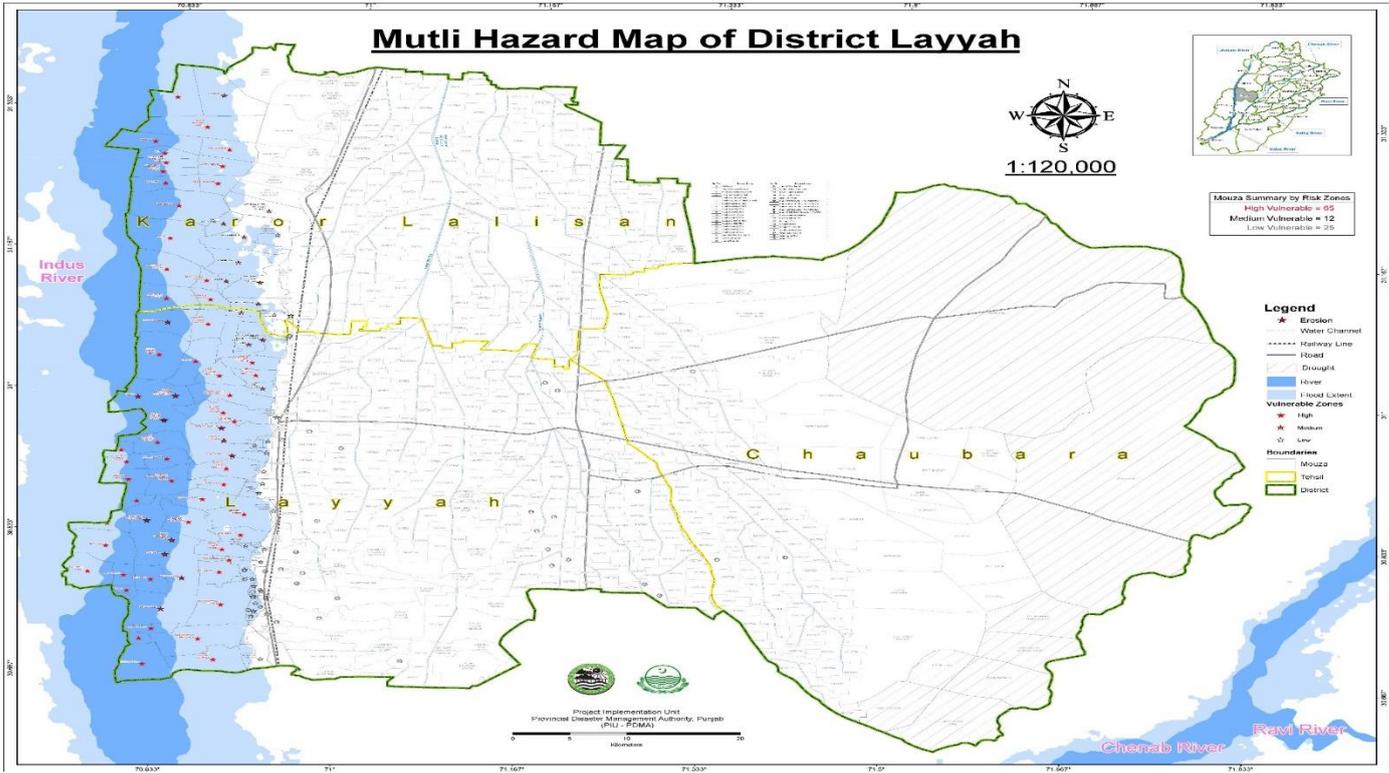
Facility Type	Capacity	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates	
		X: Y:			X: Y:	

# District baseline/Reference Map:



Source:

# Mutli Hazard Map of District Layyah



High Vulnerable	= 09
Medium Vulnerable	= 12
Low Vulnerable	= 25

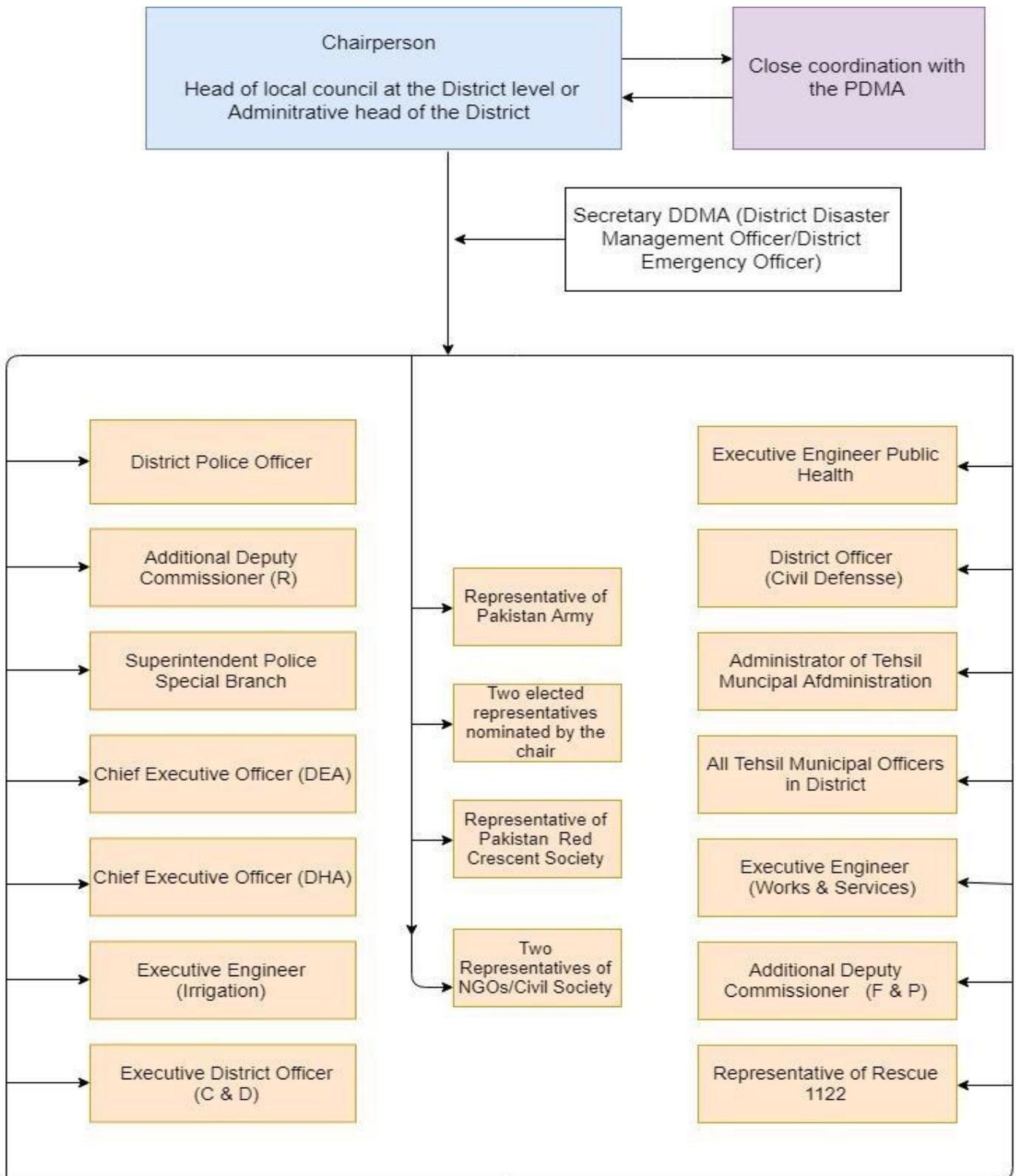
- Legend**
- Erosion (Red star symbol)
  - Water Channel (Blue line symbol)
  - Railway Line (Dashed line symbol)
  - Road (Solid line symbol)
  - Drainage (Blue hatched area symbol)
  - Flood Extent (Blue shaded area symbol)
  - Vulnerable Zones**
  - High (Red star symbol)
  - Medium (Yellow star symbol)
  - Low (White circle symbol)
  - Boundaries**
  - Mouza (Yellow outline symbol)
  - District (Green outline symbol)

Project Implementation Unit  
Provincial Disaster Management Authority, Punjab  
(PIU-PCMDA)

0 5 10 20  
Kilometers

# COORDINATION MECHANISM

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



## **Powers and functions of District Disaster Management Authority (DDMA) 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 programs for different levels of officers, employees and voluntary rescue workers in the district;
- j) facilitate community training and awareness programs for prevention of disaster or mitigation with the support of local authorities, governmental and non-governmental organizations;
- k) set up, maintain, review and upgrade the mechanism for early warnings and dissemination of proper information to public;
- l) prepare, review and update district level response plan and guidelines;
- m) coordinate with, and give guidelines to, local authorities in the district to ensure that pre-disaster and post-disaster management activities in the district are carried out promptly and effectively;
- n) review development plans prepared by the departments of the Government at the district level, statutory authorities or local authorities with a view to make necessary provisions therein for prevention of disaster or mitigation;
- o) identify buildings and places which could, in the event of disaster situation be used as relief centers or camps and make arrangements for water supply and sanitation in such buildings or places;
- p) establish stockpiles of relief and rescue materials or ensure preparedness to make such materials available at a short notice;
- q) provide information to the Provincial Authority relating to different aspects of disaster management;
- r) Encourage the involvement of non-governmental organizations and voluntary social-welfare institutions working at the grass root level in the district for disaster management.
- s) ensure communication systems are in order and disaster management drills are carried out periodically; and

### **DISTRICT PLAN:**

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

## **ADDITIONAL POWERS OF DISTRICT AUTHORITY:**

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

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

## **REVENUE DEPARTMENT (FUNCTIONS AND RESPONSIBILITIES)**

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

- Taking everyone on board is perhaps the most important thing to do. Regular meetings of DDMA should be held to clearly highlight the roles and duties of DPOs, EDOs, and 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 girdawari 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 defense and Pakistan army regarding the action plan during any emergency or flood. This will give a fair idea about the preparedness of the district.
- Availability of vehicles should be ensured for use during any emergency especially off road vehicles like jeeps.
- Suitable locations should be identified for accommodating armed forces like the Pakistan army. Normally schools, colleges or stadiums are allocated for the armed forces

### **Checklist for Revenue Department:**

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

### **Tehsil / Town Municipal Committee:**

- Tehsil / Town Municipal Committee 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 Committee will provide assistance to the District Government for setting up and management of relief camps/ operations.
- MUNICIPAL COMMITTEES are responsible for provision & restoration of water and sanitation facilities in their municipalities besides disposal of waste or rain water/sewerage.
- MUNICIPAL COMMITTEES are equipped with trucks, water bowsers, and 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. MUNICIPAL COMMITTEES sanitary workers can be employed for cleaning relief camps, or other such areas which has been affected by any disaster. MUNICIPAL COMMITTEES employ de-watering sets to remove excess water. All MUNICIPAL COMMITTEES are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The MUNICIPAL COMMITTEE maintains a list of all the choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.
- MUNICIPAL COMMITTEE should ensure supply of clean drinking in overhead reservoirs and ensure supply to the affected areas or relief camps through water bowsers. Clean drinking water is a major issue and requirement during any disaster.
- In case of any disaster that requires people to be relocated, the MUNICIPAL COMMITTEE 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 MUNICIPAL COMMITTEES 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 Deputy Commissioner. The office of the Deputy Commissioner fully supported by the DPO and line departments such as Health, Agriculture, Livestock, Civil Defense, 1122, MUNICIPAL COMMITTEES 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 MUNICIPAL COMMITTEES.
- 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 councilors to make announcements etc.

- The tactical operations would be headed by the Additional Deputy Commissioner (R). The ADC (R) would be responsible for coordinating and supervising the disaster control and relief measures in the district.

- **Provincial government had notified the following composition of DDMA's for whole of the province:**

- Deputy Commissioner (Chairperson)
- Chairman District Council (Member)
- District Police Officer (DPO) (Member)
- Two Elected Representatives to be nominated by the Chief Minister for Each DDMA (Member)
- Two Representatives of NGOs/Civil Society to be nominated by the Chair (Member)
- Chief Executive Officer /DHA (Member)
- Chief Executive Officer/ DEA (Member)
- Additional Director Livestock (Member)
- Deputy Director Agriculture (Extension) (Member)
- District Food Controller (Member)
- SP/ DSP Special Branch (Member)
- Executive Engineer Irrigation (Member)
- Executive Engineer Public Health (Member)
- Executive Engineer Highways (Member)
- Executive Engineer Building (Member)
- District Emergency Officer, Rescue 1122 (Secretary)
- District Disaster Management Officer, Pakistan Red Crescent Society (Member)
- All Chief Officers Municipal Comities/ District Council (Member)
- Federal Government Officers which the DDMA's decide to Co-OPT as per Powers Delegated Under Section 20 & 22 of NDAMA Act 2010

## **DISTRICT EMERGENCY OPERATION CENTER / CONTROL ROOM**

District Administration has established a District Emergency Operation Center / Control room 24/7 in three shifts at the DC office with the Telephone No. 0606-920016. The same number has already been circulated to all concerned authorities and Departments/Organizations. The DEOC / District Control Room has to maintain record of updated information regarding the threat of emergency/disaster and for information of any emergent situation in the district.

- The District Government would immediately mobilize the equipment needed to tackle the challenges created by any emergency/disaster. The District Government will provide a comprehensive list of Tools, Equipment and Accessories (TEAs) to PDMA as part of their DDMP.

- Executive District Officer (Health) will ensure the availability of adequate medicines for treatment of common issues, particularly for snake and dog bite cases and general vaccines at each relief camp.
- DD(Agriculture) and Additional Director Livestock would arrange fodder and feed supplement and vaccination for livestock and animals displaced.
- District Regional Transport Authority (DRTA) Layyah will coordinate with local transporters to arrange transport required for evacuation of people from affected areas. In case of shortfall in transport in the district, District Regional Transport Authority (DRTA) will request through Chairperson DDMA Layyah from the adjoining district for the provision of to assist the evacuation of people from affected areas.

### **ROLE OF PUNJAB EMERGENCY SERVICE DEPARTMENT:**

- The immediate evacuation of people from the disaster prone and vulnerable areas.
- Provision of immediate medical aid during any emergency and shifting the patients/ affected persons to the nearby hospital at the time of need.
- In flood situations rescuing people from drowning in the strong currents is a specialty of Punjab Emergency Services as it has its own set of divers and boats. Similarly, in case of collapsed buildings or structures the Department 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.
- The Department is well trained in setting up medical camps for provision of emergency medical treatment & these camps are setup by Punjab Emergency Service doctors and paramedic staff.

### **PRE-DISASTER CHECK LIST FOR DDMA:**

- Regular meeting of DDMA with all Line Departments in the District.
- Identification of vulnerable areas
- Preparation of contingency plan
- Inspection of flood protection Bunds for repair & maintenance as well as removal of encroachments (if any).
- Establishment of Camps – All services under one roof
- Sites identified for relief camps Evacuation routes/plan at safer places.
- Safe custody of Government records and essential equipment and their shifting to safer areas on receipt of disaster/ flood warning
- Enlistment of department wise available resources
- Preparation of list of required relief goods/ items and submission to PDMA
- Involvement of Volunteers, NGOs and other CSOs
- Designation of departmental Focal Person
- Preparation of District vulnerability map with varying degrees of floods/ disasters.
- Evacuation well in time from vulnerable areas
- Establishment of Early Warning System and weather forecast: Loudspeakers announcements
- 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.

## **DISTRICT EMERGENCY OPERATION CENTER - DEOC**

### **(FUNCTIONS AND RESPONSIBILITIES)**

To address any emergent situation / Disasters, District Emergency Operation Center (DEOC) has been established and made fully functional round the year 24/7 with dedicated staff from all line departments in three shifts. This DEOC is state of the art established in the Deputy Commissioner complex. The purpose of center is to improve the district capacity for coping disaster / emergent situation through better management in an efficient way. This center is fully equipped with modern equipment like LEDs, Media Walls, Media Watch, PCs Internet, Photocopies, Fax Machine with, Solar & Generator Backups with furniture and fixture as well. This office is well connected with functionaries by multiple communication mediums including Telephone, Wireless and Internet service. This office is responsible for reporting the updated situation to the District Government/ all line departments and Provincial Emergency Operation Center established in PDMA Punjab Office.



DEOC-LAYYAH.

# DUTY ROASTER:



OFFICE OF THE  
DEPUTY COMMISSIONER  
LAYYAH

No. DEOC 1139 Dated: 27/02/2022

## ORDER:

District Emergency Operation Centre (DEOC) has been established in the office of Deputy Commissioner Layyah to monitor, collection and submission of reports to higher authorities regarding any kind of emergency/emergent situation within the revenue limits of district Layyah.

Location of DEOC	Contact Number of DEOC	Name of overall Incharge of DEOC with designation
Deputy Commissioner Office Layyah	0606920016	Mr. Ishfaq Hussain Sial ADC (Rev) 0606-920107, 0300-4896192 Mr. Mahmood Ahmad SNA (Technical Focal Person) 0300-8662291

Following Officers/Officials are hereby deputed in DEOC for emergency duties with immediate effect till further order.

### **1<sup>ST</sup> SHIFT (08:00 A.M TO 04:00 P.M) SHIFT INCHARGE: MR. JUNAID IRFAN KHAN**

Sr.	Name	Designation	Department	Contact Number
1	Mr. Junaid Irfan Khan	DDMC	PDMA	0308-6702755
2	Mr. Imran Khan	Fire Rescuer	Rescue 1122	0301-7475900
3	Mr. Zahid Khan	PST	Education	0333-9998556
4	Mr. Muhammad Zafar Hussain	Junior Clerk	DC Office	0303-7430400
5	Mr. Zahid Waqas	Razakar	Civil Defense	0305-3272392
6	Mr. Muhammad Ameen	Naib Qasid	DC Office	0308-8761086

### **2<sup>ND</sup> SHIFT (04:00 P.M TO 12:00 A.M) SHIFT INCHARGE: MR. MUHAMMAD FURQAN**

Sr.	Name	Designation	Department	Contact Number
1	Mr. Muhammad Furqan	DEPT Rescuer	Rescue 1122	0300-6761897
2	Mr. Muhammad Waris	FRC	DC Office	0302-8292912
3	Mr. Naeem-ul-Hassan	Junior Clerk	Agriculture	0341-6003375

### **3<sup>RD</sup> SHIFT (12:00 A.M TO 08:00 A.M) SHIFT INCHARGE: MR. ISHTIAQ AHMAD**

Sr.	Name	Designation	Department	Contact Number
1	Mr. Ishtiaq Ahmad	Fire Rescuer	Rescue 1122	0301-3515282
2	Mr. Muhammad Rizwan	CVD	Livestock	0303-5059297

## **DUTIES OF STAFF DEPUTED IN DEOC:**

- Monitoring of media watch with respect to any type of emergency/disaster/calamity and subsequently sharing and confirming the information with concerned department.
- Attending the call regarding any type of emergency and documenting/reporting to the Shift Incharge.
- Reports preparation of ongoing emergencies/disasters and submission to Shift Incharge.
- File management/maintenance of incoming and outgoing letter.
- Compilation and consolidation of losses and damages reports due to emergencies/disasters for onward submission to concerned departments.

  
Deputy Commissioner  
Layyah

## **CC:**

1. Senior Member Board of Revenue (SMBR)/ Relief Commissioner, Punjab
2. Director General, PDMA, Punjab
3. Director (Operations), PDMA, Punjab
4. Director (Coordination), PDMA, Punjab
5. District Police Officer Layyah
6. Additional Deputy Commissioner (Rev) Layyah
7. District Emergency Officer, Rescue 1122, Layyah
8. Executive District Officer, DEA, Layyah
9. Addition Director Livestock, Layyah
10. Deputy Director, Agriculture (Ext) Layyah
10. Deputy Director, Agriculture (Ext) Layyah

## **CHECKLIST FOR CONTROL ROOM:**

- Availability of dedicated Staff 24/7 in three shifts.
- Duty roaster of the staff
- 2 Dedicated telephone lines
- Dedicated Fax
- Four PCs with UPS Backup
- Solar & Generator Backups for DEOC
- Wireless Wi-Fi
- Biometric attendance machine for staff attendance
- 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 Defense 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 program that may be needed during any emergency.
  - A Health and Nutrition Cluster for overall management and oversight of Health department's disaster response would be formed at the Directorate General Health office.
  - In case the medicine stocks or even the infrastructure is damaged due to floods, the department would draw up a plan for early recovery of health infrastructure and service delivery.

### **CIVIL-MILITARY COORDINATION MECHANISM:**

The DC is responsible for all the coordination with Military. As the situation demands, the Deputy Commissioner communicates and request for Mobilization and Demobilization of Army Troops through the procedure defined by the Provincial Government. District Government is responsible for facilitation of Army Troops deployed within Area of Emergency.

### **VOLUNTEER NETWORK:**

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

DDMA & 1122 along with civil defense Layyah for operating a network in District Layyah. Village Disaster Management Committees (VDMC) comprise upon 15 members

belonging to a village and neighboring dwellings. VDMCs have been trained for Emergency response through a series of trainings, and, have been provided with Emergency Response Kits, comprising upon necessary items for early response to a flood disaster.

VDMC are member of Union Council Disaster Management Committees (UDMC) in -- Union Councils. Which are also member of District Disaster Forum Layyah. Overall number of volunteers is 1030 Each of the members have access to Early Warning System, have been trained for Emergency response & Rescue, and have participated in Hazard Identification exercises.

Each VDMC and UDMC have prepared their own Disaster Management Plan and Evacuation Plan in case of a (flood) emergency including a Disaster Risk Reduction Plan. District Disaster Forum Layyah (Network) remains available to DDMA Layyah during emergency.

### **DISTRICT HAZARDS:**

The major threats to the district have been identified as:

- Floods
- Droughts
- Law and order situation
- Earthquakes
- Major transport accident (Road, rail, air)
- Major Fire incident (Building & Forest Fire)
- Refilling of LPG
- Electricity Short Circuit
- Terrorist attack (Bomb blast etc)
- Building collapse
- Hazardous substances accidents
- Lost/injured persons (Drowning etc)
- Sand Storms

### **DYNAMIC PRESSURE THAT LEADS TO VULNERABILITY:**

- Political unrest as all political parties are available in Layyah.
- Religious and sectarian based issues.
- Contingent diseases.
- Population Growth
- Unplanned industrialization and Migration
- High Dependency on Agriculture and Livestock
- Poverty in Hazard-Prone Areas.
- Lack of Institutional Capacity to Deal with Disaster Risk Reduction
- Climate Changes and Its Impact

- Nuclear radiations hazards due to nuclear power plant at Chashma
- Displacement of KPK / FATA tribe areas to Layyah

## ACTIVATION OF THE DISASTER MANAGEMENT PLAN

This plan would be activated in case of declaration of disaster situation in the district due to above mentioned threats.

### DETAILS OF RESOURCES AVAILABLE IN DISTRICT LAYYAH

Name Of Departments	Name Of Items																					
	Cars	Jeeps	Pickups	Mini Trucks	Ambulances	Water Tanks/boozers	Tracktors	Single cabin Hilux	Double Cabin Hilux	Trolleys	Boats	Boat Engines	Spray Machine	Dewatering Sets	Bulldozers	Buses	Road Roller	Fog Machine	Fire Brigade	Life Jackets	Life Rings	
MC,s	3	1				8	24			11			113	16			1	17	3			
Secretary Market Committee Fateh pur		1																				
Wild Life		1																				
ADLG		2																				
Provincial Highways		2					1		1								1					
Works and Services		7					2		1								2					
Rescue 1122		1		1	18	1			0	30	30								5	600	66	
Civil Defence								1						2								
Forest		1					3	1	1	1												
Excise and Taxation		1						1														
Population Welfare		1	6	6					1													
Food		1																				
PASSCO	2																					
Public Health Engineering	1	2							1													
Election Office		1																				
Tevta	1						1															
Community Development	2	4														5						

Irrigation		3							1												
Education		8																			
Agriculture		7	4				8			8											
Health	1	10	29					2	2												
Agriculture Engineering			2				2			2					14						
Sports	1																				
Evacuee Trust		1																			
Private Owners											75										
Doaba Foundation											2										
Layyah Sugar Mills											2										
DMO	1																				
DC	1	2																			
Revenue Department	1	4																			
Secretary Market Committee Layyah		1																			
ADC (R)	2																				
Grand Total	16	62	39	9	18	8	41	5	6	24	83	5	113	18	14	5	4	17	6	41	66

## **STRUCTURE OF DISASTER MANAGEMENT PLAN:**

1. DDMA
2. Disaster Management Coordination Center
3. Disaster management Coordination System
4. Role and Responsibilities
5. Exercises
6. Community awareness, Community Training and Public information

## **FUNCTIONS OF DISTRICT DISASTER MANAGEMENT AUTHORITY:**

- I. To review and analyze monthly statics related to all emergencies and formulate appropriate policies and take actions for prevention & mitigation of hazards.
- II. To develop effective disaster management and regularly review and assess disaster management.
- III. To identify and coordinate the use of resources for disaster operations.
- IV. To ensure information about a disaster in the area is promptly given to the relevant departments and groups.
- V. To perform such other functions as may be assigned to it by the Punjab Emergency Council to achieve the purpose of Punjab Emergency Act, 2006.
- VI. The Board shall meet at least once every month and may co-opt members, if so required.

## **DISTRICT EMERGENCY OPERATIONS CENTER (CONTROL ROOM):**

A Disaster Management Coordination Centre working around the clock will be established at district level for effective coordination & mutual support among the different departments & agencies.

### **FUNCTIONS OF THE CENTRE:**

#### **RECEIPT OF WARNINGS:**

Warnings of a natural disaster (e.g. cyclone, floods, etc) will be issued in the first instance by the Bureau of Meteorology and the Officer in Charge is responsible to ensure that the information is immediately forwarded to the Chairman of the District Emergency Board. In the event of manmade disaster for which a warning would not be issued by the Bureau of Meteorology, the designated control authority (Police, Rescue 1122 etc) has to inform the Chairman.

#### **WARNING DISTRIBUTION:**

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

### **PUBLIC INFORMATION:**

The distribution of contact or telephone numbers to the public for disaster information will be the responsibility of and at the discretion of the Chairman

### **COORDINATION AMONG DIFFERENT DEPARTMENTS AND AGENCIES**

It will be responsible for the coordination among different departments and agencies. The required resources will be mobilized and provided at the operational site.

### **REPORTING:**

All responsible organizations are to submit regular situation reports to the Disaster Co-ordination Centre.

### **REQUESTS FOR ASSISTANCE:**

Any requests for assistance from outside the District are to be made by the Chairman.

### **CONFERENCE PROTRACTED OPERATIONS:**

If the damage or disruption is of such an extent that operations are to continue over a number of days, the policy of daily meetings with officers in charge of control authorities and support organizations will be implemented for the purpose of coordinating effort and establishing priorities.

## **ROLE AND RESPONSIBILITIES OF INCHARGES**

### **INCIDENT COORDINATOR (IC):**

The Deputy Commissioner (Chairman of the District Emergency Board) will be the Incident Coordinator (IC). In the absence of Deputy Commissioner, The EDO (Rev) will be the IC.

### **RESPONSIBILITIES:**

- Overall response Management.
- To appoint persons who will serve to other position.
- To establish initial action plan and approve all information to media.
- To assure that contact and resources information has been established with outside agencies through Liaison Officer.
- To provide resources as needed or requested by the Incharges.
- To report to the competent authorities through Information Officer.

### **INFORMATION OFFICER (IO):**

Appointed or designated by the Chairman of Emergency Board or Incident coordinator.

### **RESPONSIBILITIES:**

- To update the Incident Commander regarding all new information.
- To ensure all news release have the approval of the Incident Commander.
- To issue an initial incident information report to the news media.

### **LIAISON OFFICER (LO):**

Appointed or designated by the Chairman of the Emergency Board or Incident coordinator

### **RESPONSIBILITIES:**

- To create liaison among different departments
- To help the Incident Commander to liaison with other agencies like Army, NDMA, etc.

### **SAFETY/SECURITY INCHARGE:**

The Head of Police Department will be responsible for safety and security of the area, Rescuers and public.

### **RESPONSIBILITIES:**

- To secure the area.
- To provide safety of the area, all the Rescuers and public.
- To brief the crew about the hazards & safety Measures.

- To ensure that everyone is wearing Personnel Protective Equipment (Helmet, masks etc.).

### **INCHARGE OPERATIONS:**

The Leading agency will be the in charge of the operations.

### **RESPONSIBILITIES:**

- To obtain briefing from Incident Coordinator.
- To manage and Coordinate among operation teams in incident.
- To identify needs to request the Incident Coordinator for additional resources.
- To assure team – Task force
- To report any substantial Development / Accidents to Incident Coordinator
- To maintain a log of all operation activities.

### **INCHARGE LOGISTICS:**

Appointed or designated by the Chairman of the Emergency Board or Incident Coordinator.

### **RESPONSIBILITIES:**

- Arrangement and resources Management.
- To ensure that the required facilities, materials and resources are readily available for deployment to or at the incident.
- To Plan effectively and to ensure adequate and effective availability of required equipment and resources and that the resource respond in an organized manner.

### **PRIMARY FUNCTIONS:**

- Supply of resources
- To provide ground support
- To provide Catering

### **INCHARGE FINANCE:**

Appointed or designated by the Incident coordinator.

### **RESPONSIBILITIES:**

- To arrange funds for the availability of logistics and other resources.

<h2 style="text-align: center;"><b>IMPORTANT NOTE</b></h2>
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- No “hands on job” by the Incident commander & Incharges.
- The command will be handed over after face to face meeting.
- All the teams & agencies must report to the Incharge Operations & get briefings.

## MANAGEMENT OF THREATS:

<u>Threats</u>	<u>Leading Agency</u>	<u>Supporting Agencies</u>
Evacuation	Revenue Department	<ul style="list-style-type: none"><li>➤ The District Government</li><li>➤ Rescue 1122</li><li>➤ Municipal Committees</li><li>➤ Provincial &amp; District Highway Departments</li><li>➤ Department of Community Development</li><li>➤ Civil Defense</li><li>➤ Department of Public Works</li><li>➤ Police</li></ul>
Road Accident	Punjab Emergency Service (Rescue 1122)	<ul style="list-style-type: none"><li>➤ Traffic Police/Patrolling Police</li><li>➤ Health Departments</li><li>➤ Police Department</li></ul>

<p>Air Accident</p>	<p>Punjab Emergency  Service (Rescue 1122)</p>	<ul style="list-style-type: none"> <li>➤ The District Government</li> <li>➤ Army</li> <li>➤ Rangers</li> <li>➤ Police</li> <li>➤ DHQ &amp; THQs Hospitals</li> <li>➤ Civil Defense</li> </ul>
<p>Rail Accident</p>	<p>Revenue Department</p>	<ul style="list-style-type: none"> <li>➤ Pakistan Railways</li> <li>➤ Railway Police</li> <li>➤ District Police</li> <li>➤ Rescue 1122</li> <li>➤ DHQ &amp; THQs Hospitals</li> <li>➤ Civil Defense</li> <li>➤ Provincial &amp; District Highway Departments</li> <li>➤ Army</li> <li>➤ Rangers</li> </ul>

<p>Building collapse</p>	<p>Punjab Emergency Service (Rescue 1122)</p>	<ul style="list-style-type: none"> <li>➤ The District Government</li> <li>➤ Police</li> <li>➤ Municipal Committees</li> <li>➤ DHQ &amp; THQs hospitals</li> <li>➤ Civil Defense</li> <li>➤ The MEPCO</li> <li>➤ Provincial &amp; District Highway Departments</li> </ul>
<p>Major Fire</p>	<p>Punjab Emergency Service (Rescue 1122)</p>	<ul style="list-style-type: none"> <li>➤ Police</li> <li>➤ Municipal Committees</li> <li>➤ DHQ &amp; THQs Hospitals</li> <li>➤ Civil Defense</li> <li>➤ The MEPCO</li> <li>➤ Provincial &amp; District Highway Departments</li> </ul>
<p>Hazardous Chemical Accident</p>	<p>Punjab Emergency Service (Rescue 1122)</p>	<ul style="list-style-type: none"> <li>➤ The District Government</li> <li>➤ Police</li> <li>➤ Municipal Committees</li> <li>➤ DHQ &amp; THQs</li> <li>➤ Civil Defense</li> </ul>

<p>Law and Order Situation (Processions, strikes, violent Mobs etc.)</p>	<p>Police Department</p>	<ul style="list-style-type: none"> <li>➤ The District Government</li> <li>➤ MUNICIPAL COMMITTEEs &amp; MUNICIPAL COMMITTEE Fire Service</li> <li>➤ Rescue 1122</li> <li>➤ DHQ &amp; THQs Hospitals</li> <li>➤ Civil Defense</li> <li>➤ Provincial &amp; District Highway Departments</li> </ul>
<p>Terrorist attack (Bomb Blast etc.)</p>	<p>Police Department</p>	<ul style="list-style-type: none"> <li>➤ <del>The MEPCO</del></li> <li>➤ Rescue 1122</li> <li>➤ District Government</li> <li>➤ Municipal Committees</li> <li>➤</li> <li>➤ DHQ &amp; THQs</li> <li>➤ Civil Defense</li> <li>➤ The MEPCO</li> <li>➤ Provincial &amp; District Highway Departments</li> <li>➤ Army (If Needed)</li> <li>➤ Ranger If Needed)</li> </ul>
<p>Drowning</p>	<p>Rescue 1122</p>	<ul style="list-style-type: none"> <li>➤ The District Government</li> <li>➤ Police</li> <li>➤ Municipal Committees</li> <li>➤ DHQ &amp; THQs Hospitals</li> <li>➤ Civil Defense</li> <li>➤ Irrigation Department</li> </ul>

Earthquake and Flood	Rescue 1122	<ul style="list-style-type: none"><li>➤ Revenue Department</li><li>➤ Police</li><li>➤ Army</li><li>➤ Provincial &amp; District Irrigation Departments</li><li>➤ Municipal Committees</li><li>➤ DHQ &amp; THQs</li> <li>➤ Civil Defense</li> <li>➤ The MEPCO</li> <li>➤ Provincial &amp; District Highway Departments</li> <li>➤ Provincial &amp; District Works Departments</li><li>➤ Agriculture and livestock department</li> <li>➤ All line Departments</li></ul>
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## OPERATIONAL RESPONSIBILITIES OF DIFFERENT AGENCIES:

<p>District Government/Revenue Department with the help of agriculture Engineering, Agriculture</p>	<ul style="list-style-type: none"><li>➤ Establishment of the District Disaster Co-ordination Centre</li><li>➤ To provide public warnings and advice.</li><li>➤ To do collection and interpretation of meteorological warnings and data</li><li>➤ To provide personnel, plant and equipment as necessary</li><li>➤ To maintain effective liaison with other Disaster Management. Authorities like NDMA or ARMY.</li><li>➤ To establish and maintain district recorded flood information</li><li>➤ Protection, maintenance and restoration of water and sewerage services</li><li>➤ To monitor water quality.</li><li>➤ To assess and control chemical pollution of water supply.</li><li>➤ To do maintenance of drainage systems</li><li>➤ To do assessment and safety of damaged buildings</li><li>➤ To do assessment of emergency housing</li><li>➤ To do assessment of emergency shelter sites</li><li>➤ To sign posting, barricading and road maintenance</li><li>➤ To do road closures as required</li><li>➤ To do clearance of debris</li><li>➤ To establish, monitor and maintain all refuse disposal sites</li><li>➤ Co-ordination of clean-up of private dwellings</li><li>➤ To provide assistance in animal control</li><li>➤ To maintain and provide animal records</li><li>➤ To monitor safe disposal of dead animals</li><li>➤ To help in preservation and advice on public health and hygiene matters</li><li>➤ To assist in vaccination programs</li><li>➤ To do vermin and vector control</li><li>➤ To monitor sewerage, waste water and hazardous waste</li><li>➤ To do initial treatment and pre-hospital care of victims disposal</li><li>➤ To do initial triage of victims disposal</li><li>➤ To monitor safety of food supplies</li><li>➤ To assist medical response with Health Department</li><li>➤ To monitor the implementation of safety standards of multi-story buildings</li> <li>➤ To monitor the provision of water hydrants</li><li>➤</li></ul>
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<p>Police Service</p>	<ul style="list-style-type: none"> <li>➤ To maintain law and order</li> <li>➤ To control traffic</li> <li>➤ To control crowd</li> <li>➤ To control evacuation, including registrations</li> <li>➤ To co-ordinate rescue of trapped/stranded persons</li> <li>➤ To provide security of specific areas</li> <li>➤ To do road blocks and diversions</li> <li>➤ To do tracing of persons</li> <li>➤ To augment emergency communications and investigations of offences and accidents</li> <li>➤ To do control of crime threatened site</li> <li>➤ To provide assistance in stock and infected material tracing</li> </ul>
<p>Health Department</p>	<ul style="list-style-type: none"> <li>➤ To command, control and co-ordinate epidemiological investigation</li> <li>➤ To provide public health advice and warnings</li> <li>➤ To provide psychological and counseling services</li> <li>➤ To provide medical and health care for the victims</li> <li>➤ To assist in transportation of severely injured and diseased people.</li> </ul>

<p>Punjab Emergency Service (Rescue 1122)</p>	<ul style="list-style-type: none"> <li>➤ To provide transportation of severely injured and diseased people</li> <li>➤ To help in safety of persons in relation to fire prevention, firefighting and recovery</li> <li>➤ To control fire in designated fire zone</li> <li>➤ To control and clean up hazardous materials, spillage/release</li> <li>➤ To do extrication of trapped persons</li> <li>➤ To give advice and directions on public safety/evacuation from fire/hazardous materials danger zone</li> <li>➤ To provide specialist personnel and equipment.</li> <li>➤ To assistance in rescue of trapped/stranded persons</li> <li>➤ To augment emergency communication</li> </ul>
<p>MCs</p>	<ul style="list-style-type: none"> <li>➤ To provide personnel and equipment as necessary</li> <li>➤ To do protection, maintenance and restoration of water and sewerage services</li> <li>➤ To monitor water quality</li> <li>➤ To implement safety standards of multi-stories buildings</li> </ul>
<p>MC Fire Service</p>	<ul style="list-style-type: none"> <li>➤ To assist the Rescue 1122 in firefighting.</li> </ul>
<p>The Civil defense</p>	<ul style="list-style-type: none"> <li>➤ To provide specialist personnel and equipment.</li> <li>➤ To provide Bomb disposal squad.</li> </ul>
<p>THQs</p>	<ul style="list-style-type: none"> <li>➤ To provide Site Medical Officer or Site Medical Teams if required</li> <li>➤ To do on site emergency treatment</li> <li>➤ To do medical &amp; emergency treatment of the victims in the Hospital</li> </ul>

<p>MEPCO</p>	<ul style="list-style-type: none"> <li>➤ Control of electrical hazards</li> <li>➤ To cut-off power in any area in case of emergency of Fire</li> <li>➤ To do restoration of power supply</li> </ul>
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PTCL / NTC	<ul style="list-style-type: none"> <li>➤ To help in emergency telecommunications</li> <li>➤ To do restoration of Telephone facilities</li> </ul>
Provincial & Highway Dept.	<ul style="list-style-type: none"> <li>➤ Provision of heavy earthmoving equipment and personnel as required</li> </ul>
Public Works and Housing	<ul style="list-style-type: none"> <li>➤ To provide engineering and logistical requirements to damaged areas.</li> <li>➤ To provide supplementary accommodation in schools for evacuation centers.</li> </ul>
Public Relation Department	<ul style="list-style-type: none"> <li>➤ To Publish information after the approval of the chairman or Incident Coordinator</li> <li>➤ Community awareness programs on TV, Radio &amp; Newspapers.</li> </ul>
Education department	<ul style="list-style-type: none"> <li>➤ To provide building for emergency shelters to displaced persons.</li> <li>➤ To record, register and monitor displaced peoples in emergency shelters.</li> <li>➤ To arrange emergency schools at camps as and when needed.</li> </ul>

## **EXERCISES:**

Periodically, the District Emergency Board will carry out table top exercises on various scenarios to assess the procedures in this document. Following a full analysis of the events, the Disaster Management Plan will be updated accordingly.

## **PUBLIC EDUCATION (COMMUNITY AWARENESS), COMMUNITY TRAINING AND PUBLIC INFORMATION:**

This is an ongoing awareness program conducted by the Punjab Emergency Service (Rescue 1122), the Media, Local Authorities, and NGOs.

Included in this program are the following:

- Publications explaining medical/fire emergencies etc., preparedness and emergency procedures.
- Publications detailing the measures that should be taken to prevent, minimize and deal with the effects of emergency situations.
- Ongoing media campaign to encourage the public to **“be aware”**.
- Training for the Volunteers Program by the Rescue 1122.
- Walks and conferences should be organized for community awareness.

## **PUBLIC INFORMATION:**

Public information is that information which is passed on to the public prior to, during, and after a disaster, such as warnings and direction. The Punjab Public Relation Department has the responsibility for the dissemination to the public of disaster management information as directed by the Chairman of the District Emergency Board or Incident Coordinator.

When this plan is activated, the Chairman or Incident Coordinator is the official source of public and media information through his Information Officer. All outside media enquiries are to be directed to the Chairman. The Chairman is to arrange for media briefings and interviews with key personnel.

## **MEIA OUTLETS:**

- a) **Radio:** Both AM and FM strive to present the best information for the public through this outlet.
- b) **Television:** All TV channels
- c) **Newspapers:** All local and National Newspapers

## **RISK ANALYSIS:**

Potential hazards of the district

<b>Hazards</b>	<b>Likelihood (Score 1-5)</b>	<b>Impact (Score 1-5)</b>	<b>Risk</b>
Floods	4	5	20
Urban Flooding			
Flash Floods			
Hill Torrent			
Glacial Lake Outburst Flood (GLOF)			
Landslide			
Tornado			
Earthquake	2	2	4
Drought	3	3	9
Epidemic	4	4	15
Fire Incidents	3	3	9
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	2	3	6
Environmental Hazards (industrial accidents, severe	3	3	9

pollution etc.)			
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Risk = Impact x Likelihood

Low : 1-7

Medium : 8-14

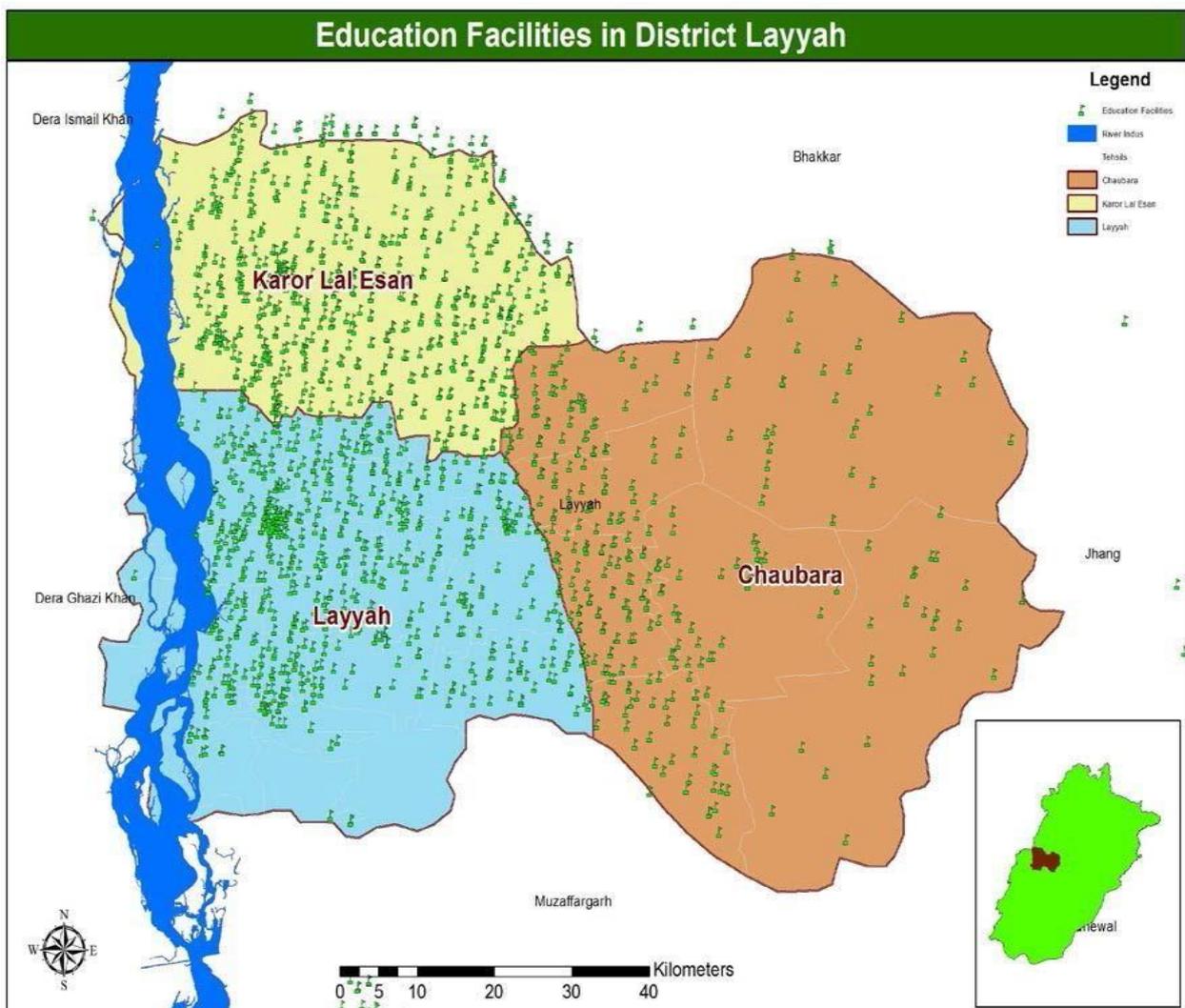
High : 15-20

**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

Hazard mapping plans Risk reduction plans at Village and Union Council level are readily available with District

Disaster Management Forum Layyah.



Source: District Government Layyah

### **3: RESPONSE & OPERATIONAL CAPACITY**

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

At Government level DDMA, Rescue 1122 and Civil Defense have their plans ready, needs and shortfalls have been identified in their plans, duly communicated to competent authorities. Other line departments act according to instructions received from Flood Control center, all NGO working in the District response strategy is given next page:

## Strategic Reserves:

Items	Available	Functional	Non-Functional	Extra Demand
Boats	30	30	0	0
OBM	30	30	0	0
De-watering sets	14	14	0	5 (1.5Cusec)
Navigators	0	0	0	10
GIS devices	2	0	0	2
Lifejackets	600	520	80	100
Life Ring	66	66	0	100
Lifelines	02	02	0	50
Scuba diving suit with complete accessories	2	2	0	2
First Aid Kits	0	0	0	50
Rescue Bag	50	0	0	50
Safety Harnesses	02	02	0	10
Ambulances	18	18	0	0
Fire Brigade	5	5	0	0
Water Tanks/ Boozers	1	1	0	0
Extendable Ladders	3	3	0	3
Hydraulic Cutter	0	0	0	1
Sonar Rader	0	0	0	5
Jumping Sheet	0	0	0	5
Dumpers	0	0	0	1
Excavators	0	0	0	1
Cranes	0	0	0	1
Bulldozer	0	0	0	0
Boat Carrier/Trolleys	3	3	0	1
Searchlight	5	5	0	30
Tent	856	800	56	200
Mosquito Net	300	300	0	200
Plastic Mat	1350	1250	100	200
Blanket	550	550	0	0
Generator Sets with light stands	1	1	0	3
Gas-Cutters	0	0	0	1
Navigator/GPS Tracker	0	0	0	5
Floating Rope	0	0	0	30

## **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.)*

Logistic obstacles faced by District Government time to time, different sort of equipment as mentioned above is missing and request sent to concerned office, technical man power is another bottle neck especially at the time of disaster.

## MITIGATION STRATEGY

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

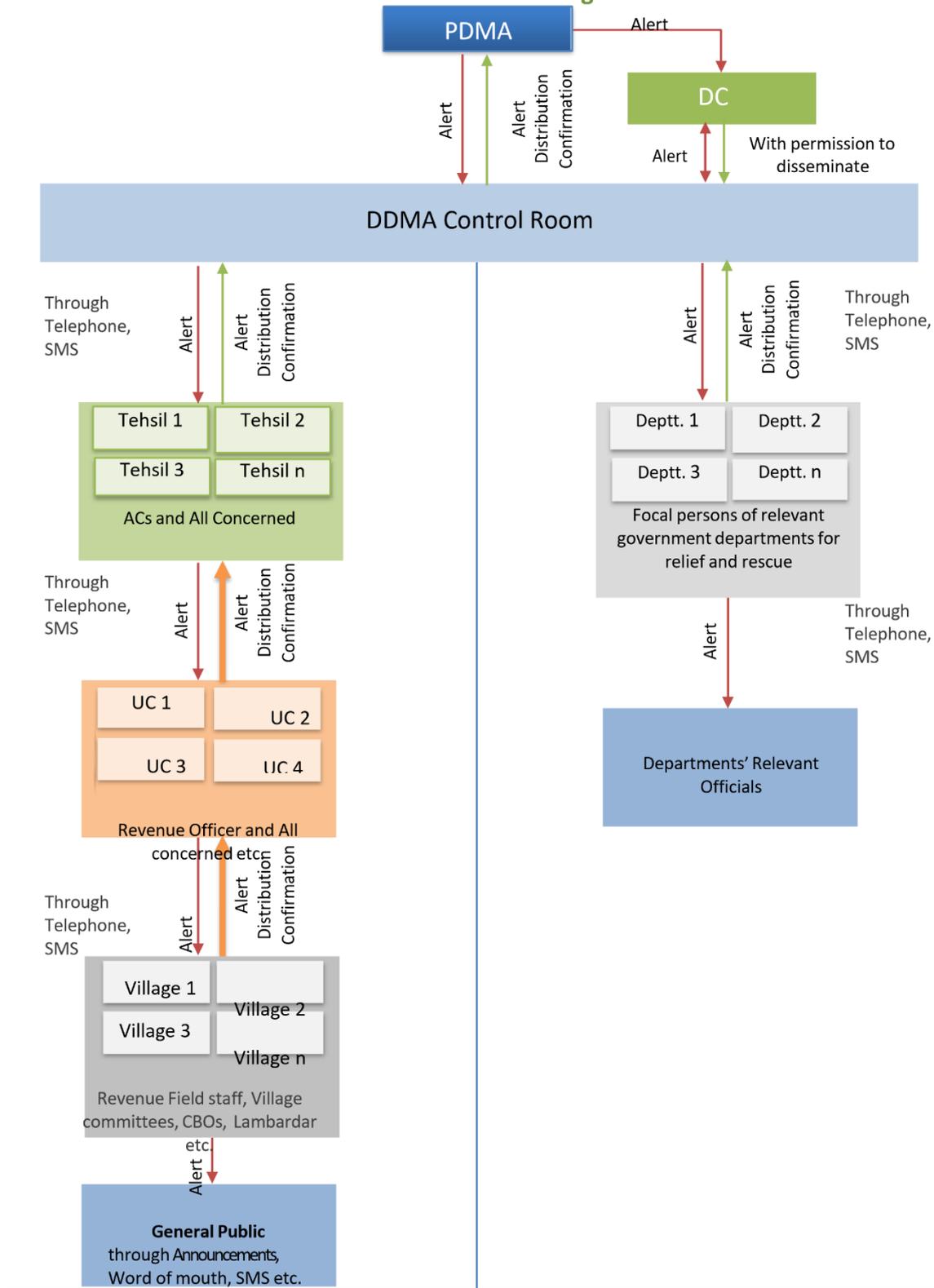
Hazards	Mitigate Actions	Responsible Department
Floods	Construction of Protection Suppers Awareness Raising for Disaster Risk Reduction  Emergency Response Kits at Village Level	<ul style="list-style-type: none"> <li>✓ Irrigation Dep.</li> <li>✓ Revenue Department</li> <li>✓ DDMA/Recue 1122/</li> <li>✓ Civil Society</li> <li>✓ Pakistan Army</li> </ul>
Urban Flooding		
Flash Floods		
Hill Torrent		
Glacial Lake Outburst Flood (GLOF)		
Landslide		

Hazards	Mitigate Actions	Responsible Department
Tornado		
Earthquake	reprography Use of Building code	Building Department MUNCIPAL COMMITTEE Works Department
Drought	<ul style="list-style-type: none"> <li>• Tree Plantation</li> <li>• Drip &amp; Sprinkler Irrigation system</li> <li>• Protection Walls</li> </ul>	Forest Department/civil society organizations Water Management/forest department
Epidemic	<ul style="list-style-type: none"> <li>• Preventive Actions</li> <li>• Medical Treatment of patients</li> <li>• Pre vaccination</li> </ul>	Health/MUNCIPAL COMMITTEE/District Government Health
Fire Incidents	Forestry ,mock exercise, trainings, equipment ,	1122,fire brigade, civil defense
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	<ul style="list-style-type: none"> <li>• First aid and Rescue</li> <li>• Infrastructure maintenance</li> </ul>	Rescue 1122/Highway Police/Traffic Police Highways and District Government

Environmental Hazards (industrial accidents, severe pollution etc.)	<ul style="list-style-type: none"> <li>Awareness Raising/plantation/nurseries alternate energy</li> <li>Inspection &amp; Correction</li> </ul>	Environment department
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# EARLY WARNING

Information Flow Diagram



# Alertness Levels

Following four levels alertness have been established:

<p><b>Level-D</b> (Disaster threat is perceptible)</p>	<p>DDMA shall conduct monthly meetings besides at least 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. <b>Activities to be undertaken in level D</b></p>
<p><b>Level-C</b> (Alert) (Warning issued likelihood of is less than 100%)</p>	<p><b>Activities to be undertaken in level C+</b> DDMA shall issue "alert" to all concerned for the vulnerable area. DDMA and LDMA (tehsil level) control rooms be made operational 24/7 and but likelihood of ensure availability of all required (available and additional) resources for occurrence is on call mobilization and monitor the situation 6 hourly. Only DC and DPO shall grant leave according to the situation.</p>
<p><b>Level-B</b> (Disaster threat is imminent)</p>	<p><b>Activities to be undertaken in level B+</b> DDMA shall issue EW to all stakeholders and "High Alert" for the district (<b>High Alert</b>) 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.</p>
<p><b>Level-A</b> (Materialized)</p>	<p>DDMA shall respond to the emergency immediately and shall carry out (Red Alert) rescue and relief operation as defined in DDMP and shall continuously monitor the situation. Resources of adjoining districts shall be mobilized (Disaster is and Army may be called keeping in view the magnitude of the disaster. materialized)</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.*

Through SMS , Announcement, Patwaris and policemen etc... the information desalinated from District Government to Concerned authorities of revenue department and the information desalinated to local Government representatives .Than information pass on to UDMC(union council disaster management committee in which five members are especially trained on EW from each UC of the district and then Doaba Foundation Layyah a national NGO 's GIS computerized Early Warning & Planning model along with SMS system further desalinate the information.

## **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 action to be taken for immediate response depends upon the information received. In case of a disaster emerging slowly, followed by Early Warning the arrangement are made accordingly. In case of abrupt Disaster, Rescue 1122 and other line department are taken on board by DDMA

Deputy Commissioner will ask the Pakistan army when the situation is severe in regard with disaster.

## **Flood Forecasting and Early Warning System**

Flood Forecasting and Early Warning System should be announced by Irrigation Department, Patwaris and through announcement in loud speakers of masajid. 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 disseminates immunity flood information to residents of low lying areas by blowing risers which are installed along River Sindh. 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 DC Office building, 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**

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 District Administration shall mobilize along banks of River Indus.

## **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?*

Humanitarian Assistance is extremely helpful in coping up disasters. Trained Volunteers of Rescue 1122 and other networks such as District Disaster Forum are in contact for deployment. However, untrained mobs are avoided to access the disaster scene.

The data is collected by committee formed by Deputy Commissioner. Committee consist of revenue representatives, numberdars, local representatives. On the collected data, the need will be priorities.

DDMA, DDMC and sub committees, civil society, Pak army and local volunteers provide the assistance to affectees from early warning, search and rescue, cooked and uncooked food.

Sphere standards are used as per previous practice for camping and managing

There is enough capacity as for as District Government is concerned at least 150000 persons will provide assistance. The District Government is very keen for the protection especially Government gender based protection is on the first in agenda, especially keen for children and person with disabilities.

## ANNEX I: IDENTIFIED SITES FOR DISPLACED PERSONS

S#	Location	No. of persons which can be accommodate	GPS Coordinates	S#	Location	No. of persons which can be accommodated	GPS Coordinates
1	Government. Girls Islamia High School, Layyah	1236 <sup>d</sup>	X: 709366838 Y:309551935	11	Government. Girls High School, Kotla Haji Shah	1290	X: 709158466 Y:310079284
2	Government. Boys Model High School, Layyah	1345	X: 709389997 Y:309561978	12	Government. Boys High School,	1270	X: 708952968 Y:311476343
3	Government. Girls High School, TDA Colony, Layyah	1265	X: 709575559 Y:309648035	13	Government. Girls High School ,Paharpur	1340	X: 709455027 Y:306980125
4	Government. Girls Model High School Sadar Bazar, Layyah	1323	X: 709393099 Y:309648081	14	Government. Boys High School ,Paharpur	1300	X: 709449551 Y:306976388
5	Government. Boys M.C. High School, Layyah	1355	X: 709418582 Y:309650314	15	Government. Boys High School Bagh Wala	1260	X: 709747130 Y:311664827
6	Government. Girls Degree College Kot Sultan	2700	X: 709571972 Y:309744160	16	Government Boys Degree College, Karor	2800	X: 709611546 Y:312084445
7	Government. Boys College, Kot Sultan	1300	X: 709312765 Y:307721955	17	Government. Boys High School No.1, Karor	1270	X: 709500393 Y:312273280
8	Government. Boys High School, Kot Sultan	1380	X: 709314732 Y:307710559	18	Government. Girls Degree College, Karor	2900	X: 709642630 Y:312196963
9	Government. Girls High School Canal Colony, Layyah	1300	X: 709313284 Y:307706070	19	Government. High School, Railway Road, Karor	1350	X: 709552485 Y:312208930
10	Government. Boys Degree College, Layyah	2850	X: 709571972 Y:309744160	20	Government. Girls High School, Karor	1280	X: 709490839 Y:312270710

**Note: More camps will be established according to intensity of flood and population affected.**

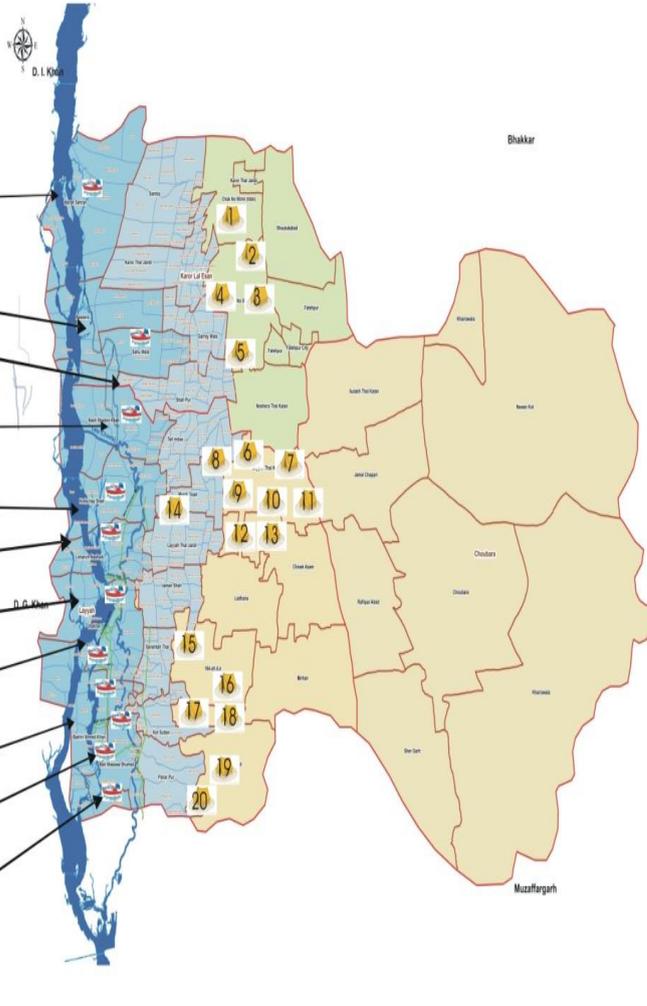
Sr. No	Name of School	Rooms	Residence Capacity	Toilet Block	Water Motor	Sewerage	Electricity	C-IV	CCTV
1	GHS KAROR NO 1	15	Yes	20	Yes	Yes	Yes	5	8
2	GHS RAILWAY ROAD KAROR	17	150	8	Yes	Yes	Yes	8	6
3	GHS SAHOO WALA	10	100	3	Yes	Yes	Yes	7	4
4	GHS BAGH WALA	5	50	1	Yes	Yes	Yes	5	3
5	GHS KOT SULTAN	13	150	13	Yes	Yes	Yes	6	4
6	GHS PAHAR PUR	8	100	2	Yes	Yes	Yes	6	4
7	GHS MODEL LAYYAH	22	250	14	Yes	Yes	Yes	9	4
8	GHS M.C LAYYAH	20	300	5	Yes	Yes	Yes	8	4
9	GHS KOTLA HAJI SHAH	14	150	3	Yes	Yes	Yes	8	4
10	GHS CHAK NO 122-A/TDA	7	70	2	Yes	Yes	Yes	8	4

Sr. No	Name of School	Rooms	Residence Capacity	Toilet Block	Water Motor	Sewerage	Electricity	C-IV	CCTV
11	GGHS KAROR	16	100	5	Yes	Yes	Yes	7	7
12	GGHSS PAHAR PUR	11	150	10	Yes	Yes	Yes	10	3
13	GGHS MODEL LAYYAH	14	100	5	Yes	Yes	Yes	12	6
14	GGHS KOTLA HAJI SHAH	9	100	3	Yes	Yes	Yes	10	3
15	GGHS Canal Colony Layyah	17	150	14	Yes	Yes	Yes	10	4
16	Govt. Post Graduate College Layyah	7	1000	5	Yes	Yes	Yes	20	10
17	Govt. College for Women Layyah	10	1000	4	Yes	Yes	Yes	20	10
18	Govt. Post Graduate College Karor	5	800	4	Yes	Yes	Yes	20	12
19	Govt. College Women Karor	5+1 Hall	1000	4	Yes	Yes	Yes	15	8
20	Govt. Post Graduate College Kotsultan	5	300	3	Yes	Yes	Yes	15	8

## Rescue points



1. Warah sehran  
Rescue boats 1 + Private Boats 8
2. Sahu wala  
Rescue boats 1 + Private Boats 8
3. Chandia patni kanjal  
Rescue boats 1 + Private Boats 7
4. Chandia patni Chandia wala  
Rescue boats 1 + Private Boats 5
5. Chandia patni Lohanch  
Rescue boats 1 + Private Boats 10
6. Jhakhar  
Rescue boats 1 + Private Boats 5
7. Khokhar Wala  
Rescue boats 1 + Private Boats 5
8. Shah wala patni Shah Wali  
Rescue boats 1 + Private Boats 5
9. Shah wala Patni Guggi  
Rescue boats 1 + Private Boats 3
10. Bhakhri Ahmed khan  
Rescue boats 1 + Private Boats 10
11. Khojay wala  
Rescue boats 1 + Private Boats 4



## Relief CAMPS

1. Govt. Boys Degree College Karor (2800)
2. Govt. Boys H/S No 1 (1270)
3. Govt. Girls Degree College Karor (2900)
4. Govt. H/S Railway road Karor (1350)
5. Govt. H/S Layyah (1280)
7. Govt. Girls H/S Layyah (1236)
8. Govt. Boys Model H/S Layyah (1345)
9. Govt. Girls H/S TDA Colony Layyah (1265)
10. Govt. Girls Model H/S Layyah (1323)
11. Govt. Boys MC H/S Layyah (1355)
12. Govt. Girls H/S Canal Layyah (1300)
13. Govt. Boys Degree College Layyah (2850)
14. Govt. Girls H/S Kotla /haji shah (1290)
15. Govt. Girls Degree College kotsultan (2700)
16. Govt. Boys College Kot Sultan (1300)
17. Govt. Boys H/S Kot Sultan (1380)
18. Govt. Girls H/S Shahuwla (1270)
19. Govt. Boys H/S Paharpur (1300)
20. Govt. Boys H/S Bagh Wala (1260)

## ANNEX II:

### LIST OF HAZARD PRONE VILLAGES/REVENUE ESTATE (NAMES REQUIRED)

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods	Layyah, Karor	Wara Sehran, baseera,sahu wala, basti shadoo khan,kotla Haji Shah,Lohanch Nashiab,Jakhar, Sumra Nashiab,Bakhari Ahmad Khan,bait wasawa shumali	Nangi Lohanch Katcha Nangi Lohanch Pacca. Dullo Nashaib Lohanch Nashaib Saidu Nashaib Saidu Thal Samitia Nashaib Kotla Qazi Nashaib. Kotla Qazi Thal Sehmal Nashaib Mirani Katcha . Mirani Pacca . Samtia Thal Kotla Haji Shah Thal Thind Kalan Nasheb .Thind Khurd Nasheb Kotla Haji Shah Nasheb Thoori, Sumra Nasheb Katcha Sumra Nasheb Pucca, Sumra Nasheb Shumali Pucca Sumra Nasheb Shumali Katcha .Basti Shadu Khan .Noshera Nasheb .Bhund, Wara Gashkori Nasheb .Jhock Hassan Khan .Nooray Wala Pucca .Nooray Wala Katcha .Noshera Thal Jandi .Ilyani	

			<p>.Aulakh Nasheb .Do-Charkha Nasheb .Shah Pur Nasheb .Shah Pur Thal .Khokhar Isra Nasheb Khokhar Isra Thal .Sahu Wala Katcha Sahu Wala Pucca Sanjh Isra Shahani .Baseera .Laskani wala .Sergani Nasheb .Mouchi Wala Pucca .Mouchi Wala Katcha .Katchi Bahar Shah .Shenh Wala .Bait Bakhshinda .Bait Moosan Shah .Dhappi Makori .Rakhwan .Din- Pur .Mangoori .Wadhay Wali .Wara Seharan .Dad Shah Faqir Wala .Dad Shah Jandan Wala .Khai .Wairer Thal .Wanjhera Nasheb .Bhai Sadhu Ram Nasheb .Soya Nasheb .Jhorer Nasheb .Jhorer Thal Jandi .Khuni Kalru Nasheb .Khuni Kalru Thal .Vehni Wall Nasheb .Pahar Pur Nasheb .Bait Wasawa Khan</p>	
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			Wala .Bait Wasawa Shumali .Nourasi .Khokhar Wala Katcha .Bakhra .Shah Wala .Baluch Khan .Bait Gadi .Bait Balu .Bait Gujji .Zour .Bait Dabli .Bait Kalru .Ghallu Arwal .Sekhani Wala .Bait Wasawa Kalru .Wairer Nasheb .Bait Diwan .Jhakar Katcha .Jahkar Pucca .Ghajra .Khokhar Wala pucca .Rakh Khohkar Wala .S arishta Nasheb .J aisel Nasheb .Kharal Azim Nasheb .Khwas Khalil Nasheb .Gut Nasheb .Kunnel Nasheb	
Urban Flooding				
Flash Floods				
Hill Torrent				

Tornado				
Earthquake	Layyah, Karor,Choubara	Any where	Any Where	Any Where

Drought	Choubara , Layyah	nawankot,kharye wala,jamal chapri,rafiq abad,172/TDA,Sher garh,Aulakh Thal kalan	<ol style="list-style-type: none"> <li>1. Chak No.170/TDA</li> <li>2. Chak No.170-A/TDA</li> <li>3. Chak No.171/TDA</li> <li>4. Chak No.172/TDA</li> <li>5. Chak No.173/TDA</li> <li>6. Chak No.173-A/TDA</li> <li>7. Chak No.174/TDA</li> <li>8.Amir Kalasra Sherqi</li> <li>9.Amir Kalasra Gherbi</li> <li>10.Jorer Thal Kalan</li> <li>11. .Pannah Kharal Sherqi</li> <li>12. Pannah Kharal Gherbi</li> <li>13. Sharif Arain</li> <li>14.Peer Jaggi Gherbi</li> <li>15. Bahadar Gamoon Sohal Gherbi</li> <li>16. Bahadar Gamoon Sohal Sherqi</li> <li>17. Peer Jaggi Sherqi</li> </ol> <ol style="list-style-type: none"> <li>1.Chak No.246-A/TDA</li> <li>2. Chak No.298/TDA</li> <li>3. Chak No.299/TDA</li> <li>4. Chak No.300/TDA</li> <li>5. Chak No.301/TDA</li> <li>6. Chak No.302/TDA</li> <li>7. Chak No.303/TDA</li> <li>8. Chak No.309/TDA</li> <li>9. Chak No.310/TDA</li> <li>10.Chak No.311/TDA</li> <li>11.Chak No.312/TDA</li> <li>12.Chak No.313/TDA</li> <li>13.Chak No.314/TDA</li> </ol>	
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- |  |  |  |                              |  |
|--|--|--|------------------------------|--|
|  |  |  | 14. Chak<br>No.315/TDA       |  |
|  |  |  | 15. Chak<br>No.316/TDA       |  |
|  |  |  | 16. Chak<br>No.320/TDA       |  |
|  |  |  | 17. Chak<br>No.321/TDA       |  |
|  |  |  | 18. Chak<br>No.322/TDA       |  |
|  |  |  | 19. Thind Kalan<br>Chulistan |  |
|  |  |  | 20. Aulakh Thal<br>Kalan     |  |
|  |  |  | 21. Noshera Thal<br>Kalan(N) |  |
|  |  |  | 22. Noshera Thal<br>Kalan(S) |  |
|  |  |  | Total                        |  |
|  |  |  | 1. Chak<br>No.323/TDA        |  |
|  |  |  | 2. Chak<br>No.324/TDA        |  |
|  |  |  | 3. Chak<br>No.325/TDA        |  |
|  |  |  | 4. Chak<br>No.326/TDA        |  |
|  |  |  | 5. Chak<br>No.327/TDA        |  |
|  |  |  | 6. Chak<br>No.328/TDA        |  |
|  |  |  | 7. Chak No.328-<br>A/TDA     |  |
|  |  |  | 8. Chak<br>No.329/TDA        |  |
|  |  |  | 9. Chak<br>No.330/TDA        |  |
|  |  |  | 10. Chak<br>No.331/TDA       |  |
|  |  |  | 11. Chak<br>No.318/TDA       |  |
|  |  |  | 12. Chak<br>No.319/TDA       |  |
|  |  |  | 13. Chak<br>No.342/TDA       |  |
|  |  |  | 14. Chak<br>No.343/TDA       |  |
|  |  |  | 15. Chak<br>No.344/TDA       |  |

16. Chak  
No.345/TDA

17. Chak  
No.346/TDA

18. Chak  
No.347/TDA

19. Chak  
No.350/TDA

20. Chak  
No.369/TDA

21. Chak  
No.370/TDA

22. Chak No.370-  
A/TDA

23. Chak No.370-  
B/TDA

24. Sumra Thal  
Kalan Shumaali

25. Sumra Thal  
Kalan Janubi

Total

1.Nawan Kot

Total

1.Rakh Khairay wala

2.Khairay Wala

3. Rakh Nawan  
Kot Jadid

4. Patti Budh

5.Patti Shah Wali

6. Rakh Sher-  
Garh Shumali

7. Rakh Sher-  
Garh  
Janubi

8. Rakh Drangi

9.Rakh

Khan Wali

10.Rakh Jatial

11.Rakh Kilachi

12.Sher-Garh Baroon

13.Patti Kanwaira

Total

1. Chak No.371/TDA

2. Chak No.372/TDA

3. Chak No.372-  
A/TDA

4. Chak No.406/TDA

5. Chak No.407/TDA

6. Chak No.408/TDA

7. Chak No.444/TDA

8. Chak No.445/TDA

9. Chak No.446/TDA

10.Chak No.447/TDA

11.Chak No.448/TDA

12.Chak No.481/TDA

13.Patti Bukhari

14.Patti Kheiran

15.Patti Sami

16.Patti Derghai

17.Patti Jakhar

18.Patti Choubara

19.Patti Arain

20.Patti Lail

21.Rakh Choubara

Shumali

22. Rakh  
Choubara  
Janubi

23. .Patti

Farooq Total

1. Chak No.117/ML
2. Chak No.118/ML
3. Chak No.119/ML
4. Chak No.120/ML
5. Chak No.121/ML
6. Chak No.122/ML
7. Chak No.123/ML
8. Chak No.124/ML
9. Chak No.125/ML
- 10.Chak No.126/ML
- 11.Chak No.127/ML
- 12.Chak No.442/TDA
- 13.Chak No.450/TDA
- 14.Chak No.451/TDA
- 15.Chak No.452/TDA
- 16.Chak No.453/TDA
- 17.Chak No.454/TDA
- 18.Chak No.474/TDA
- 19.Chak No.473/TDA
- 20.Chak No.475/TDA
- 21.Chak No.477/TDA
- 22.Chak No.476/TDA
- 23.Chak No.478/TDA
- 24.Chak No.480/TDA
- 25.Chak No.428/TDA
- 26.Chak No.483/TDA
- 27.Chak No.485/TDA
- 28.Chak No.484/TDA
- 29.Chak No.486/TDA
- 30.Chak No.487/TDA
- 31.Chak No.488/TDA
- 32.Chak No.489/TDA
- 33.Chak No.490/TDA
- 34.Chak No.491/TDA
- 35.Chak No.492/TDA
- 36.Chak No.493/TDA

			37.Chak No.494/TDA	
			38.Chak No.495/TDA	
			39.Chak No.496/TDA	
			40.Chak No.497/TDA	
			41.Chak No.498/TDA	
			42.Chak No.499/TDA	
			43.Chak No.500/TDA	
			44.Chak No.501/TDA	
			45.Chak No.469/TDA	
			46.Chak No.449/TDA	
			47.Chak No.479/TDA	
			Total	
			1. Chak No.347- A/TDA	
			2. Chak No.348/TDA	
			3. Chak No.349/TDA	
			4. Chak No.351/TDA	
			5. Chak No.363/TDA	
			6. Chak No.364/TDA	
			7. Chak No.365/TDA	
			8. Chak No.366/TDA	
			9. Chak No.367/TDA	
			10.Chak No.368/TDA	
			11.Chak No.369/TDA	
			12.Chak No.374/TDA	
			13.Chak No.375/TDA	
			14.Chak No.376/TDA	
			15.Chak No.373/TDA	
			16.Chak No.377/TDA	
			17.Chak No.378/TDA	
			18.Chak No.379/TDA	
			19.Chak No.380/TDA	
			20.Chak No.402/TDA	
			21.Chak No.403/TDA	
			22.Chak No.404/TDA	
			23.Chak No.405/TDA	
			24.Chak No.409/TDA	
			25.Chak No.410/TDA	
			26.Chak No.411/TDA	
			27.Chak No.412/TDA	
			28.Chak No.413/TDA	
			29.Chak No.439/TDA	

			30.Chak No.440/TDA 31.Chak No.441/TDA 32.Chak No.443/TDA	
Epidemic	Layyah,Karor, Choubara	anywhere In District	Any Where In District	Any Where In District
Environmental Hazards (industrial accidents, severe pollution etc.)	Layyah,Karor, Choubara	Especially Layyah City,Karor City	Especially Layyah City,Karor City	Especially Layyah City,Karor City

## ANNEX III:

# LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute Type (School,Colleges)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	GHS Anar Wala	School	X: Y:	553	Faiz Bakhsh (Head Master)	0303-7842870
2	GMS Merani Qadeem	School	X: Y:	296	Javaid Ahmad SST	0300-8636258
3	GHS Wara Gishkori	School	X: Y:	320	Manzar Abbas SST Incharge HM	0300-8760512
4	GMS Nehrey Walla	School	X: Y:	308	Zafar Iqbal SST	0306-5151559
5	GMS Ijaz Wala	School	X: Y:	131	Zafar Iqbal SST	0300-8765518
6	GMS Bait Gujji	School	X: Y:	144	Ghulam Yasin SST	0306-7726564
7	GMS Dera Manzoor Shah	School	X: Y:	174	Waseem Akram SST	0301-6557527
8	GMS Jakhar	School	X: Y:	145	Shiekh Iqbal	0308-7724208
9	GMS Khirani	School	X: Y:	208	Muhammad Waqas SST	0307-6507955
10	GMS Khan Wala	School	X: Y:	165	Shahid Mehmood	0307-8664143
11	GGMS SERAI	School	X: Y:	74	Sumaira Bashir	0302-6218802
12	GGMS Paki Mirani	School	X: Y:	255	Aqeela Sharif SST	0300-6897901
13	GGMS Thind Klan	School		275	Tallat Jabeen SST	0334-7605794
14	GGCMS Basti Joiya	School	X: Y:	151	Rashida Naureen	0302-6639317
15	GGMS Koro Magsi Wala	School	X: Y:	323	Kaloom Akhtar SST	0300-8901830
16	GGMS SHADOO KHAN	School	X: Y:	414	Zahida Nasreen SST	0331-6881676
17	GPS Zafar Wala		X: Y:	154	SHAMLA KHAN	0324-7446728
18	GPS Basti Tooka			79	Nadeem Akram	0347-6113045
19	GPS Kuhawar Wala			70	Sajad Hussain	0305-6762036
20	GPS Kalhoray Wala			240	GHAZANFAR ABBAS	0333-9946105
21	GPS Jhoke Hassan Khan			50	Mazhar Abbas SST	0334-6973579
22	GPS Sikhani Wala (121/TDA)			107	Muhammad Amjad	0300-2249698
23	GPS Mustafa Khan wala			148	Niaz Ahmad Khan, Asia Gull	0307-7218849 0313-6762022
24	GPS Nizam Wala			84	Naveed Ali	0307-6539885

25	GPS Kouro Magasi Wala			235	Ishaq SST	0306-1946959
26	GPS Kunal Nashib			101	Mojeeb Alam	0305-2276075
27	GPS Sheinh Mar			158	Farhan Abbas	0307-7785035
28	GPS Rangeelay Wala			91	Faqeer Muhammad	0303-2032313

## ANNEX IV: 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	Layyah Sugar Mills Layyah	Karor Road Layyah	X: 70947459 Y:30989171	Nil	Maqsood Bhatti, GM, 0606411981	Medium, (Boiler installed)	Fire
2	Khan Cotton Industries	Chowk Azam Road Layyah	X: 71021508 Y:30967399	Nil	Khalid Pervez Khan 0606450426	Low	Fire
3	Al Noor Cotton Ginning Factory	Chack No.117-A /Tda Karor Road Layyah	X: 70960645 Y:31023221	Nil	Sh. Dawood Hussain 03006764813	low	Fire
4	Anwar Cotton Industries	Pul Indus, Fatehpur Road Karor	X: 31204475 Y:71064684	Nil	Mian Shahid 03336529909	low	Fire
5	Faiz Industries Cotton Ginning Factory	Multan Road Layyah	X: 30928293 Y:70934337	Nil	Faiaz Ahmad Sh. 03006769055	low	Fire
6	Fayyaz Cotton Ginning Pressing & Oil Mills	Chowk Azam Road Layyah	X: 30967607 Y:71052950	nil	Faiaz Ahmad Sh. 0606450201	low	Fire
7	Layyah Cotton Ginning & Pressing Factory	Chaubara Road Layyah	X: 30967386 Y:71011056	nil	Ch. Ishfaq Ahmnad 03006769666	low	Fire
8	Al Noor II Cotton Gining Pressing & Oil Mills	Chack No.138/Tda Chowk Azam Road Ly	X: 71026097 Y:30967234	nil	Dawood Sheikh 03006764813	low	Fire
9	Samtia Cotton Factory	Hayyat Abad Samtia Tehsil Karor	X: 71021519 Y:30967204	nil	Seth Muhammad	low	Fire

S#	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
	Ginning Pressing & Oil Mills	District Layyah.			Aslam 0300-6762015		
10	Pak Cotton Ginning & Oil Mills	Chak No. 134 Tda Heera Adda Chowk Azam Road Tehsil & District Layyah	X: 71064356 Y:30965960	nil	Faisal Qureshi 03457620586	low	Fire
11	Bhatti Cotton Ginning Pressing & Oil Mills	Chak No. 134 Tda Heera Adda Chowk Azam Road Tehsil & District Layyah	X: 71064356 Y:30965960	nil	Hussain 03006765620	nil	Fire
12	Al- Khawaja Cotton & Oil Mills,	Chak No. 119 /Tda Tehsil & District Layyah	X: 71026425 Y:31047939	nil	Kashif Manzoor 03006760339	nil	Fire
13	Malik Ameer Cotton Industries Ginning Pressing & Oil Mills,	3 Km Peer Jaggi Sharif Road Kot Sultan Tehsil & District Layyah	X: 70935678 Y:30766528	nil	Din Muhammad Samtia 03006762560	nil	Fire
14	Hayyat Cotton Factory Ginning Pressin & Oil Mills	Karor Bhakar Road Tehsil Karor District Layyah	X: 70984827 Y:31303554	nil	Muhammad Iqbal Samita 03006762015	nil	Fire
15	Zam Zam Cotton Factory	Swag Shreef Road Karor Layyah	X: 70982842 Y:31153408	nil	Ial Muhammad 03006675637	nil	Fire
16	Athar Maqbool cotton Factory	Bhakar Road Karor Layyah	X: 70973036 Y:31258653	nil	Athar Maqbool 03008480761	nil	Fire
17	Tofail Cotton Factory	M.M Road Chak No. 332/TDA	X: 71206251 Y:31258653	nil	Athar Maqbool 03008480761	nil	Fire

S#	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
		Fateh Pur Layyah			/ 0606-381334		
18	Ishaq Cottoon Factory	M.M Road Chowk Azam Layyah	X: 31015496 Y:71209212	nil	Muhammad Ishaq Khan 03006769066	Low	Fire
19	Al- Haq Cotton Factory	Chowk Azam Road Layyah	X: 71010283 Y:30966976	nil	Qaiser Waraich 03006763045	Low	Fire
20	Irfan Gandas Cotton Factory	M.M Road Dhori Adda Layyah	X: 71223610 Y:30795300	nil	Elahi Bux 03017856498	Low	Fire

## ANNEX V:

# 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	Awami Development Organization	Local	Layyah	Livelihood Development, 2. Health & Nutrition. 3. Education, 4. Disaster Management	Shahzad Gul (P)	0300-6762839
2	Aas Welfare Society	Local	Layyah	Health	Qamer Zaman (P)	0333-6763473
3	Amina Educational Welfare Society	Local	Layyah	Education,	M. Saqlain (P)	0300-8760796
4	Baloch Falah-EMarizan	Local	Layyah	Education, Health	Aziz Ahmad (P)	0300-8765041
5	Bilal Welfare Organization	Local	Layyah	Women Education	Ashiq Hussain (P)	0344-8550745
6	Community Development Organization	Local	Layyah	Women welfare	Abdul Rahim (P)	0300-6760195
7	Human Rights Development Organization	Local	Layyah	Free Legal Aid, Advocacy,	Inayat Kashif (P)	0301-7848013
8	Millat Welfare Society	Local	Layyah	Women Welfare	Ghulam Muhammad (P)	0303-7463994
9	Participatory Welfare Services	Local	Layyah	Education Water and Sanitation Economic Empowerment Climate Change Gender equality	Hayat Siyal (P)	0300-6764890
10	Public Welfare Society	Local	Layyah	Health, women Education	Abdul Latif (P)	0306-8662523
11	Rabata Welfare Society	Local	Layyah	Education	Jamshaid Iqbal (P)	0333-6201464
12	Savail Welfare Society	Local	Layyah	Education, Health	M.Amjad (P)	0300-8767870
13	Bismillah Welfare Society	Local	Layyah	Education Women Welfare	Hamida Bagum (P)	0300-6764522
14	Layyah Welfare Society	Local	Layyah	Women Welfare	Mohsin Raza (P)	0300-6760170
15	Al-Sana welfare organization	Local	Layyah	women welfare	M. Shoaib (P)	0305-5441304
16	Society for Awareness Dev.	Local	Layyah	Health, women welfare	M. Amin (P)	0333-6202688

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.
17	Roshani Welfare Society	Local	Layyah	Women Welfare, free legal Aid	Nuzhat Yasmin (P)	0300-6762466
18	Anjuman Falah-e-Behbood-e-Marizan	Local	Layyah	Health	Mahr Iqbal Sumra (P)	0305-6761070
19	Jinnah Social Welfare Society	Local	Layyah	Women Welfare	Javed Raheem Mehmood (P)	
20	Anjman Ishate Taleem	Local	Karor	Education Vocational Training	Shahid Mehmod	0301-7954079
21	Al-Nawaz Development Organization	Local	Choubara	Awareness Legal Aid	Muhammad Younis(P)	0346-7141253
22	Friend Welfare Society	Local	Karor	Women Welfare	Muhammad Nadeem Sadiq (P)	0300-8634111
23	Human Care Organization	Local	Karor	Women Welfare / Education	Muhammad Hassan Aslam (P)	0300-4133100
24	Islami Welfare Society	Local	Karor	Education	Farkhanda Khushnood (P)	0345-7259760
25	Zindgi Welfare Society	Local	Karor	Women Welfare	Muhammad Iqbal (P)	0300-6762134
26	Galobal Development Organization	Local	Karor	Women Welfare, Microfinance , Vocational Center, Education	Anila Asif	0300-5015852
27	Jag Development Organization	Local	Choubara	Computer Center, Education Health	Muhammad Ashraf (P)	0344-4670915
28	Al-Taqwa Welfare Society	Local	Karor	Women Welfare, Financial Assistance Vocational Center,	Muhammad Ismail (P)	0307-6763345
29	Awami Welfare Society	Local	Karor	Education Literary Center Education	Syed Abid Hussain Shah (P)	0306-6760011
30	Anjman Behbod-eMarizan	Local	Karor	Health	Dr. Razia Bano (P)	0331-6830787
31	Jinnah Welfare Society	Local	Choubara	Women Welfare	Dr. Haq Nawaz (P)	0343-0609164

# ANNEX VI: CONTACT LIST OF MAIN STAKEHOLDERS/ DEPARTMENTS

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Commissioner DG Khan Division	Liaqat Ali Chattha	064-9260467 064-2466377	064-9260016	0341-0922058
2	Regional Police Officer	Waqas Nazeer	064-9260471-72	064-9260473	
3	Deputy Commissioner	Muhammad Shahbaz Hussain	0606-920103-4	0606-413705	0304-0920092
4	District Emergency Operation Centre	Junaid Irfan Khan	0606-920016		0308-6702755
5	District Police Officer	Dr Nida Umer Chattha	0606-920152-53	0606-920151	0304-9361254
6	Police Control Room	Naseeb-UI-Deen	0606-920165		0344-6157892
7	Pukaar 15	Shahrukh Shah	0606-920177		0303-2086387
8	Additional Deputy Commissioner (R)	Ishfaq Hussain Siyal	0606920107		0300-4896192
9	Additional Deputy Commissioner (G)	Ishfaq Hussain Sial (Additional Charge)	0606-920109		0300-4896192
10	Secretary DRTA	Ishfaq Hussain Sial (Additional Charge)	0606-920109		0300-4896192
11	District Emergency Officer Rescue 1122	Dr. Sajjad Ahmad	0606-920090	0606-920089	0300-4512364
12	1122 Control Room	Muhammad Imran	0606-920088		0300-2855113
13	District Officer Civil Defence	Malik Muhammad Yasin	0606-413712		0300-6768715
14	System Network Administrator	Mehmood Ahmad	0606-413785		0300-8662291
15	Assistant Commissioner Layyah	Shiza Rehman	0606-920118	0606-440117	0333-4857242
16	Assistant Commissioner Choubara	Muhammad Awais	0606-440118		0344-6577800
17	Assistant Commissioner Karor	Muhammad Awais (Additional Charge)	0606-810547		0344-6577800
18	Deputy Director Development	Kamran Javaid	0606-920125		0302-8765564
19	Chief Officer District Council	Muhammad Bilal	0606-413074		0333-8055905
20	Chief Officer MC-Choubara	Umar Riaz (Additional Charge)	0606-440077		0300-4187474
21	Chief Officer MC- Karor	Sibtain Shah Bukhari	0606-810796		0333-6445393 0300-4163861
22	Chief Officer MC-Layyah	Umar Riaz	0606-412839		0300-4187474
23	Chief Officer MC-Fateh Pur	Sibtain Shah Bukhari (Additional Charge)	0606-840129		0333-6445393 0300-4163861
24	Chief Officer MC Chowk Azam	Sibtain Shah Bukhari (Additional Charge)	0606-372539		0333-6445393 0300-4163861
25	Tehsildar – Karor	Muhammad Iqbal	0606-810547		0304-6704717

26	Tehsildar – Layyah	Ahmad Kamal	0606-920117		0348-1222608
27	Tehsildar - Choubara	Rana Arshad Khan			0300-7831530
28	Superintendent Engineer Irrigation Bhakkar Circle	Muhammad Nawaz Bhatti			0300-6763112
29	Executive Engineer Irrigation Canal Division Layyah	Asad Shafique	0606-412435 0606-414015		0334-4546111
30	Executive Engineer Irrigation Canal Division Kot Addu	Muhammad Kamran	066-2242926		0333-8577172
31	Executive Engineer Irrigation Canal Division Taunsa Barrage	Sabir Hussain	066-2242796		0332-6063128 0300-6423809
32	Executive Engineer Buildings Division	Sajjad Ahmad	0606-413731		0333- 8912089
33	Executive Engineer MEPCO Division	Bilal Ahmad	0606-920296		0335-8881048
34	Executive Engineer Public Health	Amir Sharif	0606-413791		0312- 3457500
35	Chief Executive Officer/DEA	Sharafat Ali Basra	0606-920032		0303-6762498
36	Chief Executive Officer/DHA	Dr Ameer Abdullah	0606-920055-6		0300-6767880
37	Deputy Director Agriculture (Extension)	Mian Yaseen	0606-920301		0300-6768823
38	Deputy Director Colleges	Umair Asim	0606-920213-4		0300-6762238
39	Deputy Director Local Government.	Raees Ahmad	0606-920260		0345-0333769
40	Deputy Director Social Welfare	Mushtaq Hussain	0606-920263		0332-6454975
41	Additional Director Live Stock	Dr. Tariq Gudara	0606920280		0301-4027550
42	Assistant Director Fisheries	Qamar Zaman	0606-920289		0301-7792380
43	Assistant Director Agri Engineering	Ghulam Murtaza	0606-920306		0303- 9214072
44	Assistant Director Environment	Muhammad Arshad Chughtai			0333- 6495662
45	District Officer Excise & Taxation	Makhdoom Qasim	0606-920277		0300- 7333760
46	District Information Officer	Nisar Ahmad Khan	0606-421021		0336- 4422298
47	District Officer Labor (IPWM)	Muhammad Tahir	0606-920114		0302-5888426
48	District Officer Sports	Muhammad Imtiaz Bhatti	0606-920113		0334- 8258433
49	Divisional Forest Officer	Asad Abbas Shah	0606-920311-2		0333-9155998
50	District Officer Population Welfare	Khazir Hayat	0606-413736		0300- 7303478
51	District Food Controller	Sagheer Ahmad Alvi			0336-2624444
52	Punjab Food Authority	Umair Haneef	0606-920190		0330-1423292
53	DSP HQ	Shahid Nadeem	0606-920163		0305-7700851
54	DSP Saddar	Rameez Shah Bukhari	0606920184		0300-6784804

55	DSP Karor	Muhammad Ashraf Tabassum	0606-810568		0300-6599299
56	Incharge Special Branch	Riaz Anwar Qaisarani	0606-920188		0333-6465664
57	Counter Terrorism Department	Muhammad Shafi			0300-6365123
58	SHO Layyah City	Muhammad Azhar Haidar	0606-413068		0300-2799041
59	SHO Saddar	Danish Ali	0606413069		0331-8643926
60	SHO Karor	Adnan Shahzad	0606810504		0345-7171715
61	SHO Kot Sultan	Zaigham Abbas Shah	0606470006		0333-6030776
62	Incharge Deewan Riverine Check Post	Farzand Ali Shah			0300-5117905
63	Incharge Khan Wala Riverine Check Post	Sajjad Hussain Shah			0300-6767077
64	Incharge Moongarh Riverine Check Post	Sher Rasool			0308-4825893
65	Superintendent Jail	Mian Arshad	0606-920194-5	0606-920197	0341-0149649
66	Superintendent , Dar-ul- Aamaan & Sanatzar	Saima Semab	0606-920283		0300-7307566 0331-6854073
67	Senior Post Master	Liaqat Ali	0606-411945 0606-412487		0301-6848807
68	PTCL Business Manager	Muhammad Saleem	0606-411966 0606-413580 0606-411990	Fax 0606-411988	0333-6202030
69	Incharge NTC	Muhammad Waseem	0606-920000		0333-4976995
70	Incharge SNGPL (Sui Gas)	Muhammad Ashraf	0606-414198 0606-414298		0300-6763286

## ANNEX VII: LIST OF VOLUNTEERS

S#	Volunteer Name	Address	Contact Number and Email
1	Zeeshan Ali	Layyah City 2	03006767218
2	Mohammad Ismail Thori	Kotla Haji Shah	03055274578
3	Muhammad Zaman Joni	Kotla Haji Shah	3068663965
4	Muhammad Hussain	Kotla haji Shah	3076539916
5	Kaleem Ullah	Lohanch	3028769393
6	Habib Ullah	Lohanch	3085393580
7	Ghulam Qadir	Wara Seerah	3049595756
8	Nazeer Ahmad Sehar	Sahu Wala	3076547798
9	Muntazir Mehdi	Sahu Wala	3006761679
10	Shuaib ul Hassan	Bakhari Ahmad Khan	03346953095
11	M.Hussain	Khaire Wala	03216358257
12	Syed Iftikhar Hussain	Jaman Shah	03086764075
13	Abdul waqar	Bait Wasava Shumali	03009761315
14	Iram Nazeer	Kot Sultan	03054913199
15	Mubashir Hassan	Baseera	3077992617
16	Rana Usman	Karor City	03047007751
17	M Rizwan	Karor city	03049091993
18	Ijaz Hussain	Shahpur	03057314512
19	Ansar Abbas	Shahpur	03403345534
20	Atta Muhammad	Jamal Chapri	03457210974
21	M Shafeeq	Jamal Chapari	03447545602
22	Fayaz Hussain	Tail Indus	03349819481
23	Arif Mahmood	Tail Indus	03412687646
24	Taswar Abbas	Sahu Wala	03078481034
25	M Javed Aslam	98ML	03444004041
26	Arslan Ahmad	98ML	03038428498
27	Malik Sultan Awan	Noshera Thal Kalan	03078761099
28	Ghulam Mustafa	Baseera	03017857978

29	M Jameel	Fathe pur City	03077707141
30	Yasir Majeed	fathe pur city	030877313252

## ANNEX VIII: 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 187	Abdul Majeed Khan Niazi	MNA	0333-3433333	PP 280	Ahmad Ali Aulakh	MPA	0333-8915599
				PP 281	Shahab ud din Khan	MPA	0335-5801412
NA 188	Malik Niaz Ahmad Jakkhar	MNA	0300-5234200	PP 282	M. Tahir Randhawa	MPA	0306-6763136
				PP 283	Ijaz Ahmad Achlana	MPA	0300-6765265
				PP 284	Syed Razaqat Ali Gillani	MPA	0345-8250787

## ANNEX IX:

### LOCAL GOVERNMENT

#### District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Mobile Number
1	District Chairman	Layyah		
2	District Vice Chairman			
3	Tehsil Chairman	Layyah		
4	Tehsil Vice Chairman			
5	Tehsil Chairman	Karor		
6	Tehsil Vice Chairman			
7	Tehsil Chairman	Fatehpur		
8	Tehsil Vice Chairman			
9	Tehsil Chairman	Chowk Azam		
10	Tehsil Vice Chairman			
11	Tehsil Chairman	Choubara		
12	Tehsil Vice Chairman			

#### UC Level

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
1	Layyah	172/TDA				
2	Layyah	Pahar Pur				
3	Layyah	Bait Wasava Shumali				
4	Layyah	Bakhari Ahmad Khan				
5	Layyah	Sonahra Wasava				

6	Layyah	Kot Sultan City 6				
7	Layyah	Peer Jagi Shareef				
8	Layyah	Mirhan				
9	Layyah	164-A/TDA				
10	Layyah	Ladhana				
11	Layyah	Jaman Shah				
12	Layyah	Shirshta Thal				
13	Layyah	Jakhar				
14	Layyah	Lohanch Nashaib				
15	Layyah	Mandi Town				
16	Layyah	Layyah Thal Jandi				
17	Layyah	Chowk Azam (Rural)				
18	Layyah	Layyah Thal Kalan				
19	Layyah	Tail Indus				
20	Layyah	Kotla Hajji Shah				
21	Layyah	Sumra Nashaib				
22	Layyah	Basti Shadu Khan				
23						
24	Layyah	110/TDA				
25	Karor	Shah Pur				
26	Karor	Sahoo Wala				
27	Karor	Baseera				

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
28	Karor	Karor Thal Jandi				
29	Karor	Rajan Shah				
30	Karor	Garay Wala				

31	Karor	Chak No.98-ML				
32	Karor	Chak No.112-ML				
33	Karor	Fateh Pur (Rural)				
34	Karor	Warah Sehran				
35	Karor	Roshan Shah				
36	Karor	Samtia				
37	Karor	Chak No.90-ML				
38	Karor	Chak No.93-ML				
39	Karor	Shoukat Abad				
40	Chobara	Sher Grah				
41	Chobara	452/TDA				
42	Chobara	Rafiq Abad				
43						
44	Chobara Chobara	Jamal Chappri Olakh Thal Kalan				
45	Chobara	Nawan Kot 47				
46	Chobara	Khairy wala 48				
47	Choubara	306/TDA				
48	Chobara	393TDA				

### 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 :

## CAMP MANAGEMENT SOPS

- Camps would be established in areas accessible by metaled 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
<b>Shelter</b>	3.5 square meter per person
<b>Water</b>	15-20 liters per person per day
<b>Food</b>	2100 kcal per person per day
<b>Toilet</b>	One per family of 6-10 persons
<b>Health Centre</b>	One per 20,000 persons
<b>Child Friendly Spaces</b>	2-4 year olds- 15 children:2 facilitators
	5-9 year olds-20 children : 2 facilitators
	10-18 year olds- 30 children :2 facilitators
<b>Hospital</b>	One for as many as 200,000 persons

# ANNEX XI: FLOOD BUNDS

## INFORMATION REGARDING FLOOD BUND CATEGORY A

SR:#	NAME OF DIVISION	NAME OF EMBANKMENT / BUND	LENGTH (ft)
<b>SARGODHA ZONE</b>			
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
<b>Total in feet.</b>			<b>25,413</b>
<b>Total in Miles.</b>			<b>4.81</b>
1	Kalabagh H/Works Division	Jinnah Barrage	25,080
<b>Total in feet.</b>			<b>25,080</b>
<b>Total in Miles.</b>			<b>4.75</b>
<b>FAISALABAD DIVISION</b>			
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
<b>Total in feet.</b>			<b>133,875</b>
<b>Total in Miles.</b>			<b>25.36</b>
<b>BAHAWALPUR ZONE</b>			
1	Punjad Head works Division	Right Marginal Bund	15,000
2	-do-	Left Marginal Bund	15,000
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	10,000
<b>Total in feet.</b>			<b>55,000</b>
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
<b>Total in feet.</b>			<b>80,000</b>
<b>Total in Miles.</b>			<b>15.15</b>
1	Taunsa Barrage	Right Guide Bund Upstream	15,000
2	-do-	Left Guide Bund	20,000
3	-do-	Shahwala Groyne	10,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	50,000
5	-do-	Doaba Flood Bund.	5,000
6	-do-	Khangarh Flood Bund	5,000
7	-do-	Khanwah Flood Bund	5,000
8	Jampur Construction Division	Jampur Flood Bund	5,000
9	-do-	Rojhan Flood Bund	20,000
<b>Total in feet.</b>			<b>1,35,000</b>
<b>Total in miles</b>			<b>25.57</b>

<b>LBDC(IP)</b>			
1	Balloki Head works Division	Left Marginal Bund	15,000
2	do	Right Marginal Bund	15,000
		<b>Total in Feet</b>	<b>30,000</b>
		<b>Total in miles</b>	<b>6</b>
<b>LAHORE ZONE</b>			
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	86,000
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
		<b>Total in Feet</b>	<b>115,940</b>
		<b>Total in miles</b>	<b>22</b>
		<b>Grand total in miles</b>	<b>114</b>

#### **INFORMATION REGARDING FLOOD BUND CATEGORY B**

<b>S#</b>	<b>Name of Division</b>	<b>Name of Embankment / Bund</b>	<b>Length (ft.)</b>
<b>SARGODHA ZONE</b>			
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
		<b>Total in feet.</b>	<b>35,000</b>
		<b>Total in miles</b>	<b>6.63</b>
<b>FAISALABAD ZONE</b>			
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
		<b>Total in feet.</b>	<b>165,000</b>
		<b>Total in miles</b>	<b>31.25</b>
<b>BAHAWALPUR ZONE</b>			
1	Punjnad Headworks Division	-do-	90,000
2	Khanpur Canal Division	-do-	100,000
3	Bahawalpur Canal Division	-do-	50,000
4	Rahimyar Canal Division	-do-	50,000
		<b>Total in feet.</b>	<b>290,000</b>
		<b>Total in miles</b>	<b>54.92</b>
<b>MULTAN ZONE</b>			

1	Trimmu Division	-do-	80,000
2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
	<b>Total in feet.</b>		<b>190,000</b>
	<b>Total in miles</b>		<b>35.98</b>
<b>D.G.KHAN ZONE</b>			
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
	<b>Total in feet.</b>		<b>630,000</b>
	<b>Total in miles</b>		<b>119.32</b>
<b>LBDC (IP)</b>			
1	Balloki Headworks Division	-do-	40,000
2	Okara Division	-do-	40,000
3	Sahiwal Division	-do-	20,000
	<b>Total in feet.</b>		<b>100,000</b>
	<b>Total in miles</b>		<b>18.94</b>
<b>LAHORE ZONE</b>			
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
	<b>Total in feet.</b>		<b>422,000</b>
	<b>Total in miles</b>		<b>79.92</b>
<b>PMO BARRAGES</b>			
1	Jinnah Barrage	-do-	20,000
	<b>Total in feet.</b>		<b>20,000</b>
	<b>Total in miles</b>		<b>3.79</b>
	<b>Grand Total (in miles)</b>		<b>350.76</b>

## ANNEX XII: RIVER DISCHARGE RATES

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

# **ANNEX XIII:**

## **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 fall or avalanches, surface collapses, expansive soils and debris or mud flow.