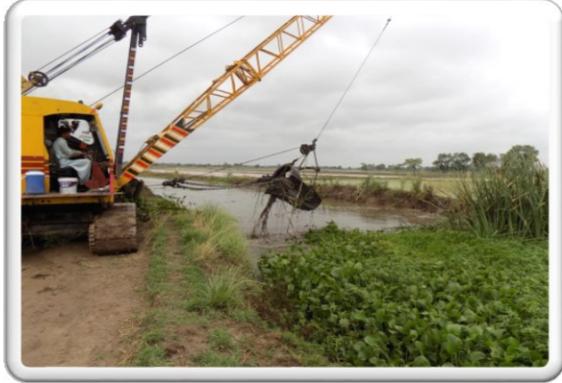


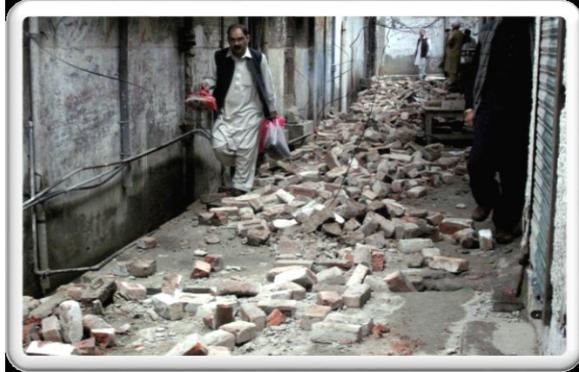
DISTRICT DISASTER MANAGEMENT PLAN 2025

District

Sialkot



Disilting of Nullahs



Earthquake 2005



Floods 2014



Floods 2017

Prepared by: Additional Deputy Commissioner (R), Sialkot.

Approved by: Deputy Commissioner, Sialkot.



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STRATEGIC SUMMARY

Flood

Estimated number of people at risk of floods in 2019



Risk: High

Earthquake

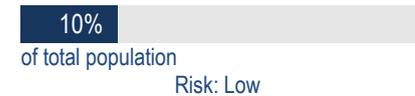
Estimated number of people at risk of Earthquake in 2019



Risk: Medium

Epidemic

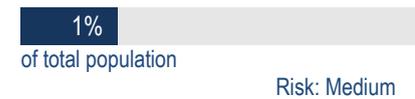
Estimated number of people at risk of epidemic in 2019



Risk: Low

Cross Border Firing

Estimated number of people at risk of Cross Border Firing in 2019



Risk: Medium

Disaster Management Plan of District Sialkot has been prepared keeping in view historical occurrences of disasters incidents. Flood has been most frequent incident with few incidents of Tornados & Fire incidents. Incidents of earth quakes have also increased in recent past raising alarm for all stake holders.

In Sialkot flood season normally include period from July to September. First flood contingency plan was prepared in 1975 & it has been revised every year. Sialkot experienced highest flood levels in year 2014 and the same are taken as bench Mark. Flood level in River Chenab in 2014 was 858,464 Cs.

This plan covers measures for pre, during & post phases of disaster, gives snap shot of available resources & mechanism for their efficient & effective utilization under close coordination of all stake holders.

DISTRICT PROFILE

➤ SOCIO ECONOMIC INDICATOR

Population

Total	Sialkot	Sambrial	Daska	Pasrur
4499364	2088201	460280	970336	980547

Source: Census 2023

Total Area (in acres)	Area in cultivation (in acres)	Number of Tehsils	Number of Union Councils	Number of Villages/Mouzas/ Revenue estates
643624	553363	4	148	1578

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
58.9%	62%	45%	76%	68%	65.9%	51.5%

Source: Census Report 1998

Poverty (percentage of population below poverty line)

Overall	Rural	Urban
56%	36%	20%

Government Schools

Private Schools

		Number of Functional Schools	Enrollment Rate			Number of Functional Schools	Enrollment Rate
Total/ Overall		2023	86.35	Total/ Overall		2751	
Boys	Primary	411	81.22	Boys	Primary	14	
	Middle	105	82.00		Middle	206	
	High	105	88.00		High	762	
	Higher Secondary	11			Higher Secondary	17	
Girls	Primary	1021	83.34	Girls	Primary	15	
	Middle	198	85.00		Middle	307	
	High	148	92.00		High	1332	
	Higher Secondary	24			Higher Secondary	12	

HIGHER / TECHNICAL / PROFESSIONAL EDUCATION DETAIL

Higher Secondary	Boys	Girls	Secondary	Boys	Girls
Total District	34	46	Total District	250	294
Elementary & Primary Schools					
Elementary	Boys	Girls	Primary	Boys	Girls
Total District	293	380	Total District	1222	1748
District Colleges					
	Boys	Female	Commerce	Universities	
Total	09	16	05	04	

Government Health Facilities

	DHQ	THQ	RHC	BHU	Civil Dispensary
Total					
Functional	2	4	6	88	40

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

1. Agriculture based - own farm/share cropping	2. Livestock based	3. Fishery	4. Daily laborer	5. Regular job	6. Shopkeeper/trader/Business	7. Other
40%	15%	1%	20%	4%	20%	%

Disaster History - Floods (since 2000)

S#	Year	No. of people affected	No. of deaths	No. of Mouza Affected	Houses Damaged (Partially)	Houses Damaged (Fully)	Compensation Paid (Rs.)	Financial Impact (including infrastructure damaged)
1	2014	97000	42	351	1500	1197	98991438	-
2	2016	25000	4	38	-	-	-	-
3	2017	100	-	5	-	-	-	-
4	2018	150	1	5	1	0	40000	-
5	2023	800	2	8	2	0	7500000	-
6								
7								
8								
9								
10								
11								
12								

Disaster History – Other disasters (since 2000)

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1	2005	Earthquake	Nil	Nil	-
2	2011	Tornado	1257	06	-
3	2018	Cross Border Firing	54600	13	49 Injured
4					

General Information

Particulars	Detail
Neighboring districts	Gujranwala, Gujrat, Norowal.
Weather/Climate pattern	Max. 44C and min 3C. Temperature.
Major Rivers	River Chenab, Jammu Tavi and ManawarTavi. Passing through areas along with length in the district: Northern side of District Sialkot approximately 60 to 70 KM.
Major Nullahs / Streams	Nullah Deg, Passing through Tehsil Pasrur and Daska, approximate length 122 KM.

	Nullah Aik, Passing through Tehsil Sialkot, approximate length 62 KM. Nullah Bhaid, Passing through Tehsil Sialkot approximate length 17KM Nullah Palkhu, Passing through Tehsil Sialkot approximate length 95 KM
Motorway/Highway	Sialkot Narowal Road, Sialkot Lahore Road, Sialkot Wazirabad Road, Sialkot Marala Road Sialkot-Lahore Motorway (Under Construction)
Railways	Railway station, Railway road near Jinnah Stadium Sialkot Railway Station Tehsil Pasrur District Sialkot Railway station Tehsil Sambrial District Sialkot
Geological features	No fault line, no mountainous area.

Dams (including small dams)

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

Name of Embankment	Length (km)	Starting Point (Mouza/Tehsil Name)	Ending Point (Mouza/Tehsil Name)	Name of Critical/vulnerable Points	GPS Location of Critical/Vulnerable Points	Remarks
Right Marginal Bund	2.02	Marala Barrage/Gujrat	Kuri Sharif/Gujrat	-	-	No Critical/vulnerable points
Left Marginal Bund	22	Marala Barrage/Sialkot	Chaprar/Sialkot	-	-	No Critical/vulnerable points
Colony Protection Bund cum Left Flood Protection Bund	17.34	Marala Barrage/Sialkot	KhasaMainwala/Sialkot	-	-	No Critical/vulnerable points

Sr. No.	Name of Flood protection bands structures	GR/RD		Height (Ft)	Width (Ft)	Length (Ft)	Present condition of bunds / structure	Likely vulnerable areas
		From	To					
1.	City Flood Protection Bund along Nullah Aik	603326	586313	8	20	7218	satisfactory	City area of Sialkot Rangpura
2.	MallahChak Flood Protection Bund Nullah Aik	604327	651350	8	20	31498	satisfactory	Allochak, Haripur, Langrewali, Mallahchak.
3.	Haji Pura Flood Protection Bund along Nullah Aik.	556300	570315	9	20	12468	satisfactory	Village Boghra, City Sialkot
4.	Right Flood Protection Bund over Deg Nullah from Defence Embankment to Zaffarwal kingra Road RD 0-14500	913257	885231	12	20	14436	satisfactory	Khalil Pur
5.	Right Flood Protection Bund over Deg Nullah from Kingra Road ToChoor Bridge.	885231	840160	14	20	29529	satisfactory	Jabg, Joya, Haji Makhtab, Jhtoki
6.	Right Flood Protection Bund over Deg Nullah from Dhirpir Muhammad to Chak	750066	764106	12	20	16077	satisfactory	Chak Raja, Charwind, Dogri, Amin Shah, Dhirpir

Raja							
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Breaching Section

Name of River	Name of Breaching Section	Location with GPS Coordinates	Likely Affected Population			Likely Affected Mouzas	Remarks
			Male	Female	Children		
Chenab	Marala Breaching Section	At RD:5+000 on Right Marginal Bund of Marala Barrage	-	-	-	-	No mouza likely to be affected in case of breaching section of Marala Barrage

Power Houses/Grid Station/Oil Depot

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
132 KV City Sialkot	132 KV	Lat: 32.487985 Long: 74.514339	132 KV Head Marala	132 KV	Lat: 32.65224 Long: 74.482018
132 KV old Power House Sialkot	132 KV	Lat: 32.492194 Long: 74.531641	132 KV Kotli Loharan	132 KV	Lat: 32.602869 Long: 74.491775
132 KV new City	132 KV	Lat: 32.497856 Long: 74.497559	132 KV Pasrur	132 KV	Lat: 32.255334 Long: 74.659829
132 KV Pasrur Road	132 KV	Lat: 32.47247 Long: 74.549001	132 KV Kot Aga	132 KV	Lat: 32.12225 Long: 74.593311
132 KV Cantt	132 KV	Lat: 32.526412 Long: 74.476621	132 KV Sambrial	132 KV	Lat: 32.479368 Long: 74.332622
132 KV Ghuinke	132 KV	Lat: 32.414925 Long: 74.442854	220 KV Sohowala	200 KV	
132 KV Lala pur	132 KV	Lat: 32.388768 Long: 74.720108			

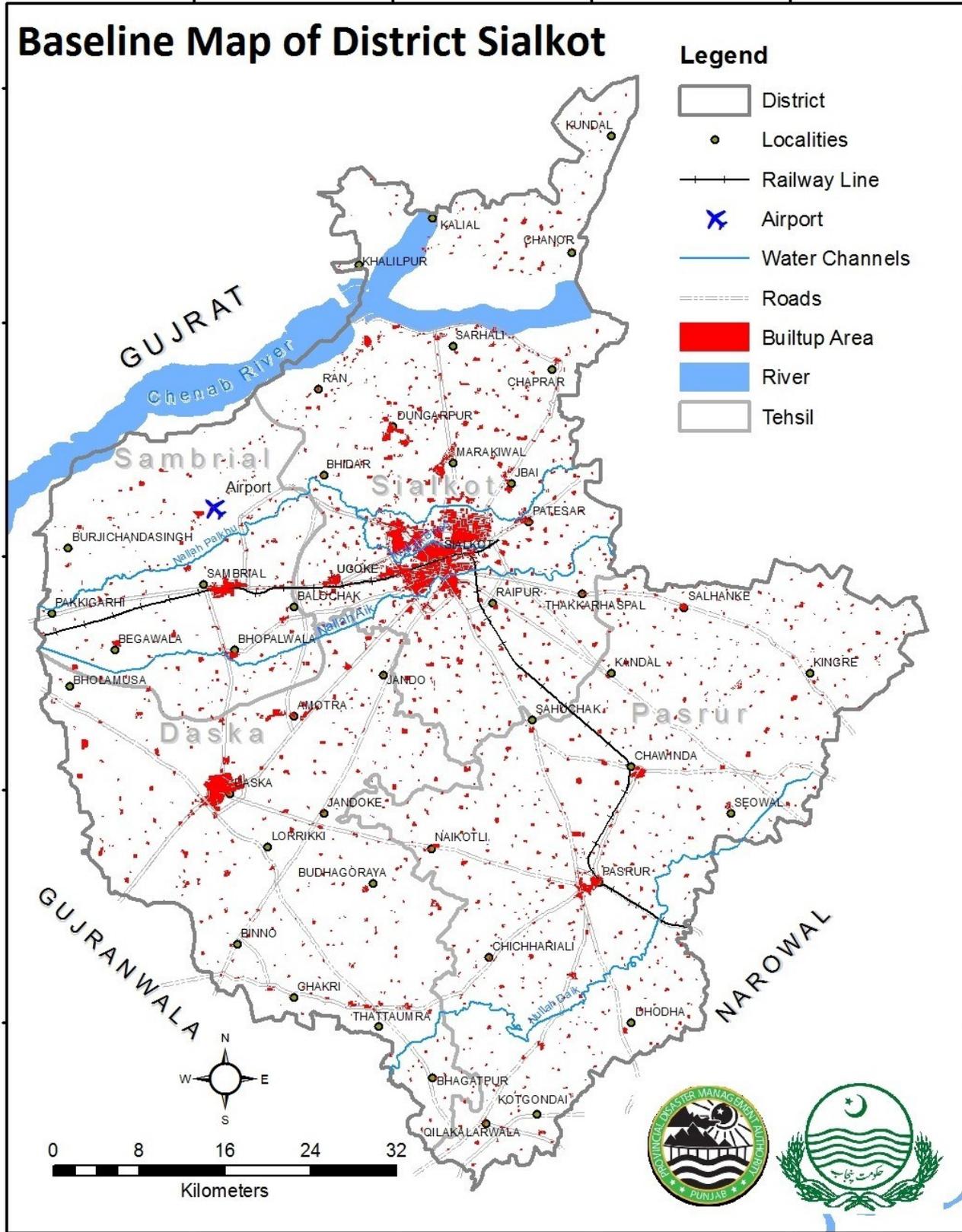
Airport / Landing Strips

Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
International SIALKOTAirport	Sambrial	32.5343119 74.3627691	Landing Strip, Sialkot Cantt	Garrison Park	32°30'54.4"N 74°31'42.2"E
Landing Strip Pasrur	Govt. High School NO. 1	32°16'17.2"N 74°39'57.6"E	Landing Strip Sialkot	Head Marala	32°66'29.41"N 74°46'8.583"E

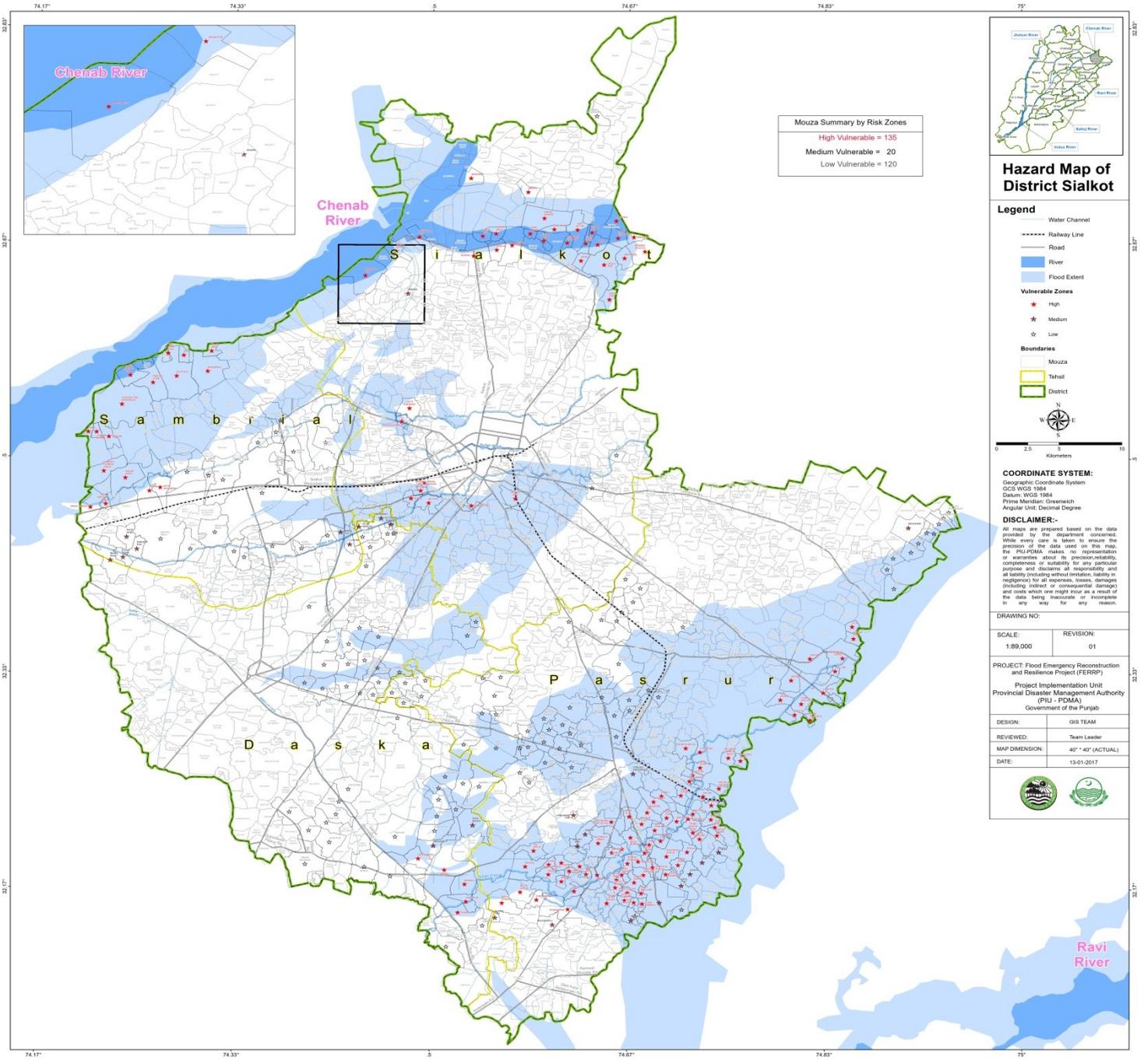
Govt. storage facilities/warehouses in the district

Facility Type	Capacity	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
1. 10 Wheat Station Centres Near Jinnah Stadium Sialkot	9,000 metric Ton		8 Wheat Centres near 8 No. Chungi Daska	1000 Metric Ton	
2.08 Wheat Centres near Rex Cinema Sialkot	8,000 Metric Ton				
2. 3 Provincial Reserve Wheat Centre Sambrial	9000 metric Ton		2 Wheat Centres near Railway station	60,000 metric Ton	

4. 6 Wheat Centres Siranwali	70,000 metric Ton				
5. Warehouse at Hockey Stadium			Relief Equipment		



DISTRICT DETAILED MAP WITH VULNERABLE POINTS



Mouza Summary by Risk Zones	
High Vulnerable	= 135
Medium Vulnerable	= 20
Low Vulnerable	= 120



Hazard Map of District Sialkot

Legend

- Water Channel
- Railway Line
- Road
- River
- Flood Extent

Vulnerable Zones

- High (Red Star)
- Medium (Yellow Star)
- Low (White Star)

Boundaries

- Mouza
- Tahsil
- District

Scale: 0 to 10 Kilometers

COORDINATE SYSTEM:
 Geographic Coordinate System
 GCS: WGS 1984
 Datum: WGS 1984
 Prime Meridian: Greenwich
 Angular Unit: Decimal Degree

DISCLAIMER:-
 All maps are prepared based on the data provided by the department concerned. While every care is taken to ensure the precision of the data used on this map, the PDMMA makes no representation or warranties about its precision, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability as neighbor) for all expenses, losses, damages (including indirect or consequential damages) and costs which one might incur as a result of the data being inaccurate or incomplete in any way for any reason.

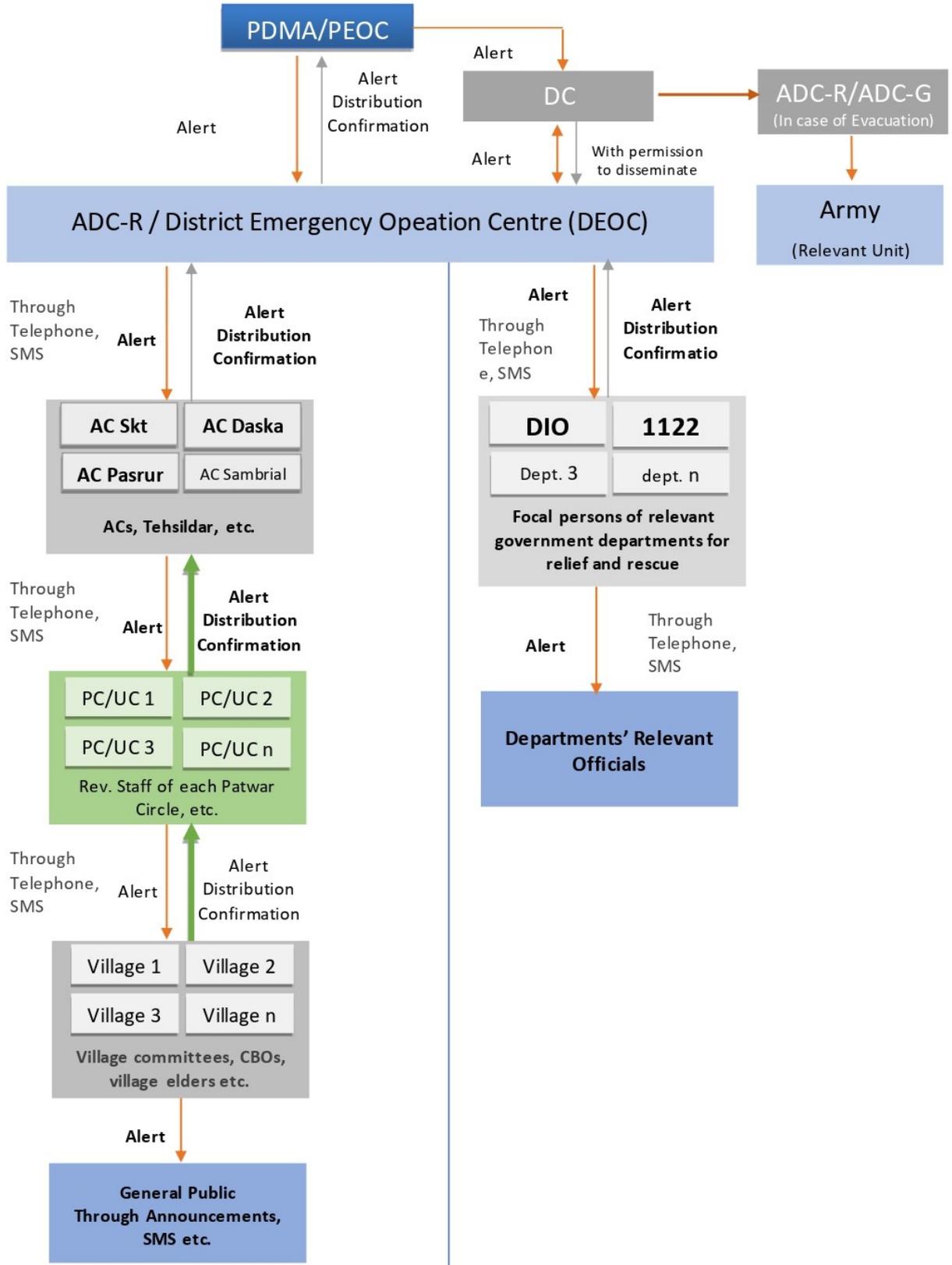
DRAWING NO:	
SCALE:	REVISION:
1:89,000	01
PROJECT: Flood Emergency Reconstruction and Resilience Project (FERRP)	
Project Implementation Unit Provincial Disaster Management Authority (PDMMA) Government of the Punjab	
DESIGN:	GIS TEAM
REVIEWED:	Team Leader
MAP DIMENSION:	40" x 40" (ACTUAL)
DATE:	13-01-2017



DISTRICT EMERGENCY OPERATION CENTRE (DEOC) ROLES & RESPONSIBILITIES:

- The District Emergency Operation Centre (DEOC) established in the DC Office Complex will be operational 24/7 round the clock with landline number 052 9250011.
- . Additional Deputy Commissioner (Rev)/District Flood Relief Officer will be overall incharge of DEOC.
- All the emergencies will be monitored in DEOC.
- Duty roster will be issued by the ADC-R/DEOC Incharge.
- The officials deputed for duty shall be given training by the DEOC Incharge about their role and duties.
- The officers/officials on duty at DEOC, will note each and every complaint received telephonically and through pront/electronic media & will take action as per SOPs of the operational manual of DEOC.
- The foregoing arrangements shall also be made on the similar pattern at offices of the Assistant Commissioners officers.
- During monsoon season, (in normal situation) Information regarding discharge position of River Chenab and all Nullahs in the District shall be received twice a day, in case of any potential threat or emergency, frequency of information shall be increased.
- During Monsoon season, the following departments shall also establish their Departmental Flood Control Rooms on the similar pattern.
 - District Council
 - Muncipal Corporation/Committees Sialkot, Pasrur, Daska & Sambrial
 - District Police
 - Rescue 1122
 - Irrigation XEN (s) Marala& Pasrur link Divisions.

Flood Information Flow Chart



DDMA (composition, functions and responsibility)

DDMA Comprising of the following:

- Deputy Commissioner - Chairman
- DEO Rescue 1122 - Secretary
- Members: ADCR, All ACs, All Chief Officers DC/MCs, All CEOs, All XENs, All DDs.

Functions and Responsibilities.

I. Prepare a disaster management plan including district response plan for the province.

II. Co-ordinate and monitor the implementation of the National Policy, Provincial Policy, National Plan, Provincial Plan and District Plan.

III. Ensure that areas in the district vulnerable to disasters are identified and measures for the prevention of disasters and mitigation of its effects are undertaken by the departments of the Government at the district level as well as by the Local Authorities.

IV. Ensure that the guidelines for prevention, mitigation, preparedness and response measures as laid down by the National Authority and Provincial Authority are followed by all departments of the government at the district level and local authorities in the District.

Civil-Military Coordination Mechanism

The Pakistan army's resources are employed for immediate search, rescue and evacuation. The Army is called in the 'Aid of Civil Power' only when a disaster overwhelms the resources at the disposal of the Government of Punjab. Search, rescue and evacuation are the primary responsibilities of the 'Disaster Response Force' so if the resources of this force fall short, the Army is immediately called in. The Army's setup in Punjab is administratively divided into six Corps with a Corps Commander leading each Corps. The District Coordination Officer of the affected district would request the relevant Army Authorities for aid of Army upon the approval of the Home Department. The Standard Operating Procedure of requesting the support of the Army is to route the DC's request through Home Department, and the Ministry of Defense. The Ministry would inform the General Headquarters (GHQ) and officers at GHQ would request the relevant Corps Commander to activate the Garrison Officer Incharge and the Brigadier responsible for leading the on ground operations. PDMA has equipped the Army with 850 boats for rescue and evacuation. In addition to the on ground movement, the Army can also provide the necessary air support for reconnaissance, relief and rescue missions. PDMA pays for the maintenance expenditures of the 850 boats mentioned earlier. In the same manner, all of Army's expenditures on disaster response are debited to the requisitioning civil authority.

The Army plays a substantial role in the opening of breaching sections. The Irrigation department is responsible for the maintenance of manageable discharge rates in the major rivers of Punjab. If the water flow exceeds a set discharge rate, the breaching section is opened with the help of explosives and excessive water is diverted into a designated area. The Breaching Section Committee responsible for the opening of the section, contains a military representative, which is usually a representative of the respective formation Headquarters not below the rank of Lieutenant Colonel. In case a disaster disrupts the existing telecommunication channels in a certain area, the Army would spearhead or assist the installation of wireless stations. In case of high floods, the respective Corps Commander would setup a Flood Relief Committee, consisting of but not limited to Commander Corps Engineer, Commander Corps Signals, Chief of Staff, Colonel General Staff, Colonel Administration etc.

- The ADC (G)/ADC-R will coordinate with Army Units for any possible assistance needed for disaster response under approval from the DC/Chairman DDMA.

Volunteer Network

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

The District officer organizes mobile squads of Razakars and scouts in collaboration with local wardens and scout organizations to assist local administration/army, Rescue 1122 in evacuation and other disaster response activities. Razakars manage and utilize generators, search lights, and other lifesaving equipment. Razakars that know how to swim and dive are utilized for specialized water rescue. Razakars provide first aid to injured victims before transporting them to hospitals. These volunteers also assist the fire brigade in rescue, and Health department's representatives in the treatment of injured victims. The Civil Defense also assists the District Administration and Police in setting up information system for members of public, whose relatives, friends and family members are missing.

The Following would be the Mechanism:

- I. The control room is the nodal centre in terms of disaster management.
- II. To monitor, coordinate and implement the actions for disaster management.
- III. To ensure an information system on a routine basis from the District Heads of Departments on the vulnerability of various blocks and villages.
- IV. To make arrangements for dissemination of information to all vulnerable places.
- V. To report the ground situation and the action taken by the District Administration.
- VI. To have a list of all personnel and trained persons who could be contacted at any time.
- VII. To organize post disaster evaluation.
- VIII. To develop liaison with the operation center. Site operation center is the center in the disaster site to be set up
- IX. Coordinating among response and rescue department for timely rescue and reporting to Govt. / PDMA for additional rescues.
- X. To organize post disaster evaluation.

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 outlined their functions, duties and powers.
- District Disaster Management Authorities are the first line of defense and the implementing arm of the government policy and plans. Within the district, there are three to four key players/departments that have to put up a joint and coordinated effort in order to fight with and handle any disaster under the leadership and coordination of the DC. The office of the DC fully supported by the DPO and line departments such as Health, Agriculture, Livestock, Civil Defence, 1122, Local Bodies and the Revenue Department form the main disaster management team within any given district. This plan is an effort to highlight their sets of responsibilities followed by the role of provincial departments.
- All district administrations had prepared a detailed contingency plan to face any disaster or hazard specially floods which until recently have become an annual affair for some districts.
- The district administration will divide the area as per district division with the Assistant Commissioner as in charge of his/her tehsil. All disaster related activities in a said tehsil will be coordinated through the concerned AC and the Local Bodies.

- On receipt of a flood warning, immediate warning will be conveyed to all the concerned officers. Immediate action will be taken in each sector / sub sector for evacuation of the population from risk prone areas to safer places or to Relief Camps. An Assistant Commissioner will ensure that announcements are made through loudspeakers of the mosques utilizing the services of the Revenue department. Each Patwari will inform the Numbardar, Headmaster of the School, Imam Masjid and councillors to make announcements etc.
- The tactical operations would be headed by the Additional District Collector (ADC). The ADC would be responsible for coordinating and supervising the disaster control and relief measures in the district.
- Provincial government had notified the following composition of DDMA's for whole of the province:

- i. Deputy Commissioner (Chairperson)
- ii. District Police Officer
- iii. Additional Deputy Commissioner (Rev)
- iv. Two Elected Representatives to be nominated by the Chair
- v. Representative of Pak Army
- vi. Two Representatives of NGOs/Civil Society to be nominated by the Chair
- vii. Additional Deputy Commissioner (General)
- viii. Additional Deputy Commissioner (F&P)
- ix. XEN Buildings
- x. XEN Highways
- xi. Chief Executive Officer (DHA)
- xii. Chief Executive Officer (DEA)
- xiii. SP Special Branch
- xiv. XEN Irrigation / Public Health
- xv. District officer Civil Defense
- xvi. Administrators of Tehsil Councils / Municipal Corporations
- xvii. All Chief Officers of Local Bodies in District
- xviii. District Emergency Officer, Rescue 1122 (Secretary)
- xix. Representative of Red Crescent
- xx. Such other District level Officers to be appointed by District Administration

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

District Regional Transport Authorities (DRTA) in all 36 districts of Punjab are managed by Secretaries who would coordinate with local transporters to arrange for arranging transport required for evacuation of people from affected areas.

In case of shortfall in transport in a particular district, the adjoining district would mobilize the transporters in his district to assist with the evacuation of people.

Pre-Flood / Disaster Check list for DDMA

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

Volunteer Network

Volunteers Management System is as under:

- i. Civil Defence, 400 volunteers Coordinating thier Civil Defence Officer Mr. Shahid, Cell: 0320-4903197
- ii. Rescue 1122, 50 Volunteers on call coordinating Mr. Muhammad Jamil Janjua (DWO) Contact# 0331-8861122

RISK ANALYSIS

1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods	5	5	25
Urban Flooding	5	5	25
Cross Border Firing	3	3	9
Flash Floods	0	0	0
Hill Torrent	0	0	0
Glacial Lake Outburst Flood (GLOF)	0	0	0
Landslide	0	0	0

Tornado	1	2	2
Earthquake	2	2	4
Drought	1	1	1
Epidemic	1	1	1
Fire Incidents	2	2	4
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	2	2	4
Environmental Hazards (industrial accidents, severe pollution etc.)	3	3	9

Risk = Impact x Likelihood

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

2.Hazards

Tornado 2011

1. Deaths 06
2. Injured 38
3. Affected Persons 1,257
4. House Damaged 164

Flood-2014

1. Village Affected 971
2. Deaths 42
3. Injured 03
4. Cattle Loss 123
5. Crops Affected 22231 Acres
6. Roads Damaged 208
7. Houses Damaged 2576

➤ Flood 2016

1. Village Affected 38
2. People Affected 25000
3. Deaths 04

➤ Flood 2021

1. Village Affected = 30 (Agri. Land)
2. People Affected = 280
3. Deaths = 01

➤ Flood 2022

1. Village Affected = 21
2. People Affected = 650 (on Deerajaat)
3. Deaths = 03

➤ **Flood 2023**

1. Village Affected = 12
2. People Affected = 150
3. Deaths = 07

➤ **Flood 2024**

1. Village Affected = 08
2. People Affected = 120
3. Deaths = 11

PREPAREDNESS

I. Identification of areas likely to be affected

All AC's shall identify the areas that were affected during the last flood as well as that are likely to be affected and send lists about all such areas to District Flood Relief Officer before 30 April.

The following areas, which had been affected during previous floods, are likely to be affected.

I. Tehsil Sialkot

a) River Chenab

River Chenab enters in District Sialkot at Akhnor and Rivers ManawarTavi and Jammu Tavi contribute their water few kilometers upstream Marala Barrage. The flood water passing through Marala Barrage affects the downstream areas on south eastern side of the river mostly comprising the area of tehsil sambrial. However, at the joining point of Jammu Tavi flood water also affects areas of sikka, Bella, Gangwal, Papeen, and Wadran Bella upstream MaralaBarragee.

Nadala enclave, where River Chenab and Munawar Tawi converge, many villages including Nadala, Machola, Bhak \ lial, HialMinhasan, Simbli Rai, Salepur, Bhatwal, Maheel, JhumianDallalan, Ikramabad, Khoonjpur, Beli and Rasulpur are affected.

b) Jammu Tavi:

Villages across the LMB of Chaprar area, the whole of Bajwat area and areas along LMB downstream Saipur Bridge and Saidpur-Bajwat Road on northern side of the bridge etc.

C) Nullah Aik

Though the Irrigation Department has constructed three protection bunds namely MallyChak, Hajipura and Nekapura Bunds to save the city. Nullah Aik overflows at many points. This water affects syedanwali, Raipur, Gopal Pur, Rasul Pur, Lalokay in southern side affects the villages DaburjiArayan, Shafi Da Bhatta, Lakhan Pur, ChhawaniSulehrian, KotliHernarayan, Praag Pur, KotMandianwala, Gunna Khurd, Hamza Ghus, Nawann Pin, Alhilal Colony, PakkiKotli and

SadraBadra after the nullah Aik entering into the city overflow at Naka pura and contributes to the flood water overflowing from pindiArayan and affects the above-mentioned villages. It overflows at AraziYaqus and affects the villages AraziYaqus, Daburji Mallyian. It overflows at KotliAameer Ali and affects Miani and Butter.

In northern Side Nullah Aik overflow at the point of AaloChak and affects the villages of AaloChak and Areas of city. It over flow at the point of Bogrra and affects the area of Fateh Garh, industrial Ara and Adjining Areas. It overflows at shatabGarha and affects the villages of GaunjianwaliRohailGarrha, Dhuuny, Laodhray, Kohrwali, Dogranwali, Adalat Garrah, Dhattal Khurd, Jalyaiwali, Neeram and Dul cheek ay.

d) Palkhu Nullah

Nullah Palkhu also spills over during rainy season and affects villages Nawanpind, Jhatta, Kapoorwali, ChiitiSkeikhan, Jaurian, Bhagwal Awan, KotliTailian, Ghansarpur and some portion of KotliLoharan (West), KotliMughlan, Baqar Pur and Kot Karim Bakhash.

e) Nullah Bhaid

Nullah Bhaid is a narrow channel passing East-West through the middle of the city Sialkot. It has a very limited capacity for flow of water. Heavy rains in the sub-urban areas on the eastern side of the city as well as in the city cause it to overflow. It results in flood in the adjoining areas. It affected the following areas in flood 2014. It over flow near lungrianwali and affets the villages of lungrianwali and Kakeywali. It also affect the lorry Adda Road, KhawjaSafder Road, Khadim Ali Road, Model Town, KotliBehram, Iqbal Town, Miana Pura, PakkaGarha, Mag Town, Murad Pur and Malkay Kalan.

II. Tehsil Daska

Area between River Chenab and UCC and low-lying area on the eastern side of Marala Ravi Link gets flooded due to stoppage of water by high embankments of Marala Ravi Link. A total area of about 39,100 acres is affected.

a) At village Uddowar and Pandorian, water is stopped due to non-existence of siphons. This water accumulates mainly due to rains.

III. TehsiSambrial

a) At Pasia and Umarkay, bank of UCC block the water, which gradually accumulates and inundates vast area. One of the existing siphons has been plugged on technical grounds while the other is working.

b) Overflow in NullahPalkhu and river Chenab inundates Majra Kalan, Majra Khurd, Kaulokey, Umerkey, ThathaMoosa, Kartarpur, Randhir, Hussain Pur, PirKot, Duburji Chanda Singh, KishanGarh, Mast Garh, Kot Dina, Kot Malian, Kot Inayat Sahianwalaetc villages in Tehsil Sambrial.

IV. Tehsil Pasrur

Area affected in Pasrur Tehsil spreads over both sides of Deg Nullah as also some areas on eastern side of M.R. Link, Totaling about 4940 acres.

- Village situated in bed and on bank of Deg Nullah is usually affected. They include Khalil Pur, Kishanpur, Kot Virk, Haft Hanjlies, Kang, Kassowal, Bagh, Begampur, Bhikhikay, Mian Cheema and Makhanpur.
- MohallahKotKuba, Grain Market, Mohallah Bahadur Pura and Normal School in Pasrur city. Ban Bajwa and AdamkayNagra near M.R. Link are affected where canal had to be cut in the past in order to save village inhabitants.
- Area lying across M.R. Link near Bhalial is also threatened.
- Total acreage likely to be affected in Sialkot district comes to **74,040.**

V. Communication Systems Likely To Be Affected

The Following roads and railway lines etc. are likely to be affected by floods: -

a) Roads

- i. Sialkot-Daska Road by Nullah Aik, at Haji Pura.
- ii. Sialkot-Eminabad Road by Nullah Aik, near Behari colony.
- iii. Sialkot-Pasrur Road by Nullah Aik near BhiekoChhor.
- iv. Sialko-Ugoki Road by Nullah Aik, near Ugoki.
- v. Gondal-Chaprar Road by Tawi-near Chaprar.
- vi. Saidpur-Phuklian Road by Nullah Deg, near Chak Khoja.
- vii. Pasrur-Chawinda Road by Hassri&Deg Nullahs near Lappaywali/ Mattike.
- viii. Pasrur-Daska Road by Hassri&Deg Nullahs near KotliBawaFaqir Chand.

b) Railway Lines

- i. Railway line between Sialkot & Gunna Kalan stations JodhayWali.
- ii. Railway Line between AlharChawinda stations Chawinda.
- iii. Railway line between Chawinda and Pasrur stations Malopatial.

3.Humanitarian Consequences

Tornado 2011

1. Deaths 06
2. Injured 38
3. Affected Persons 1,257

Flood 2014

1. People Affected 95,000
2. Deaths 42
3. Injured 03
4. Cattle Loss 123

Flood 2016

1. People Affected 25,000
2. Deaths 04

Cross Border Firing 2018

1. Deaths 13
2. Injured 49

4.Response & Operational Capacity

* All District relief and rehabilitation teams will show response.

* All CEOs, DDs will be standby with their teams.

* At Tehsil Level ACs, Chief Officers-MCs, Assistant Directors of all departments will join hands humanitarian crisis management

5. Strategic Reserves

Sr. No	Particulars	Quantity
1	Pneumatic Boat	08
2	Fiber Glass Boat 19ft	22
3	Fiber Glass Boat 24ft	06
4	OBM 15 HP	01

5	OBM 25 HP	07
6	OBM 30 HP	02
7	OBM 40 HP	25
8	OBM 48 HP	01
9	OBM 60 HP	0
10	Life Jackets	435
11	Life Ring	381
12	Scuba Set	08
13	Tent	50
14	Plastic Mat	50
15	Mosquito Net	0
16	Blanket	0
17	Quilt	0
18	Mattress	0
19	Dewatering Set 1-Cusec	0
20	Dewatering Set 2-Cusec	0
21	Dewatering Set 3-Cusec	0
22	Dewatering Set 4-Cusec	0
23	Generator with Light Stand set 5-KVA	04
24	Fuel Tank	37
25	Boat carrier	07
26	Torch Light	0
27	Rain Suit Full Body	0
28	Pedestal Fan	0

6.Gaps and Constraints

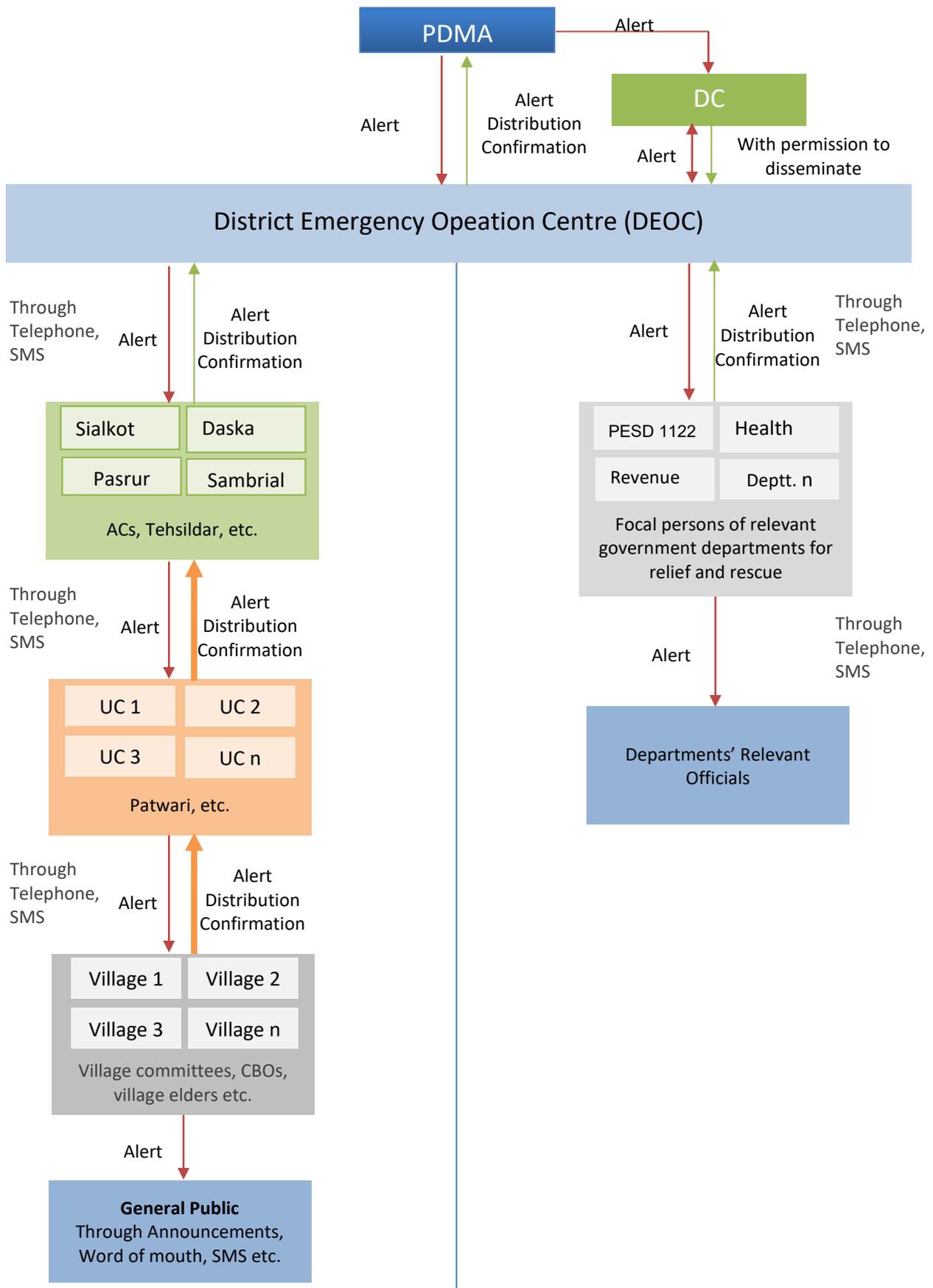
- * Lack of transportation system from the areas likely to be affected.
- * Non availability of 4x4 vehicle.
- * Non availability of trucks which could carry boats and rescue to the effected areas.
- * Shortage of man power with rescue 1122 to under take flood rescue operation while containing their other regular rescue services/operation.

MITIGATE 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	<ul style="list-style-type: none"> • Desilting section widening and channelization of Nullahs and drains. • Repair and strengthening of bunds and embankments. • Maintenance of inlets penstocks of disposal stations. • Culverts, water ways, small bridges on highways road 	<ul style="list-style-type: none"> • Irrigation, District Council. MC S • Irrigation, PHE • Irrigation, PHE • C & Works
Cross Border Firing	<ul style="list-style-type: none"> • Relocation of people residing near border • Construction of Bunkers 	<ul style="list-style-type: none"> • District Administration • Pak Army
Urban Flooding	<ul style="list-style-type: none"> • Clearance of encroachments • Clearance for desilting and drains / sewerage 	Municipal Committees/Corporation
Flash Floods	N/A	N/A
Hill Torrent	N/A	N/A
Glacial Lake Outburst Flood (GLOF)	N/A	N/A
Landslide	N/A	N/A
Tornado	<ul style="list-style-type: none"> • Capacity building of citizen rescue service. 	Rescue 1122
Earthquake	<ul style="list-style-type: none"> • Capacity building of departments • Community training • Response strategies • Construction of earthquake resistant infrastructure 	<ul style="list-style-type: none"> • Rescue 1122 • DDMA • Building Department
Drought	N/A	N/A
Epidemic	<ul style="list-style-type: none"> • Preventive measures • Spray of insecticides • Public awareness 	<ul style="list-style-type: none"> • Health / MCs • Health / MCs
Fire Incidents	<ul style="list-style-type: none"> • Capacity building of stack holders • Effective response system 	<ul style="list-style-type: none"> • All Dept. • Rescue 1122
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	<ul style="list-style-type: none"> • Ban on underage rikshaw drivers • Deployment of Traffic warden on all major chowks. • Action against dangerous buildings 	City Traffic Police District Council/MCs

EARLY WARNING



EARLY WARNING

EARLY WARNING AND EVACUATION

EARLY WARNING AND COMMUNICATION SYSTEM OF DISTRICT FLOOD CONTROL CENTER

- The DEOC shall receive direct warning from the Provincial Emergency center (PEOC) and processes each information and transmit it to the Tehsil to which it relates.

- Everything contrary to normal shall immediately be communicated to

I. The Deputy Commissioner at his numbers;

Office: 9250451-4

Residence: 9250454, 55

Cell No: 0304-0920065

II. ADC (G): 9250456, 0300-9680888

III. ADC (R) District Flood Relief Officer: 9250466, 0333-9312056

IV. The District Emergency Officer at 1122 and 9250260 cell 0331-6540399

V. Assistant Commissioner concerned at following numbers

AC Sialkot: 9250790. 0323-5520950

AC Daska: 9200115. 0300-4487417

AC Pasrur: 6443566. 0323-888031Z

AC Sambrial: 9200570. 0301-7901192

- On receipt of warning, they will convey it to the local population through the revenue Field staff.

- The local population shall be warned about the approaching flood.

RESCUE STRATEGY

i. Strategic Command will be done by the Deputy Commissioner being the Chairman of

District Disaster Management Authority (DDMA) and District Emergency Board (DEB)

ii. The main focus of strategic command will be to establish the priorities and strategy for managing

the flood situation and to supply the resources to deal with it.

iii. Strategic Command has established a clear and unambiguous command structure based upon the

experiences of previous years, Geographical Condition of District, unpredicted Climatic changes, resources held and future challenges.

vi. A key function of Strategic Command will be to predeploy rescue and flood management Resources to District and Tehsil level Rescue Teams.

v. Joint meetings of DDMA and DEB will be held before start of Flood season to review the preparation for the flood season, identify the resource gap/shortcomings and ensure timely completion/procurements.

Humanitarian Assistance

1. District Administration

- **Coordination and Oversight:** Oversee and coordinate the overall flood response efforts across various departments.
- **Resource Allocation:** Ensure the efficient allocation of resources such as funds, equipment, and personnel.
- **Public Information:** Disseminate timely information to the public regarding flood warnings, evacuation plans, and available assistance.

2. Health Department

- **Medical Assistance:** Provide medical care and emergency services to flood-affected individuals.
- **Disease Control:** Implement measures to prevent the outbreak of waterborne and vector-borne diseases.
- **Mental Health Support:** Offer psychological support and counseling to affected individuals.

Education Department

- **School Shelters:** Utilize school buildings as temporary shelters for displaced families.
- **Continuity of Education:** Implement measures to ensure the continuity of education for affected children, including temporary learning centers.
- **Awareness Programs:** Conduct awareness programs in schools about flood safety and preparedness.

Agriculture Department

- **Crop Protection:** Provide support to farmers to protect crops and livestock from flood damage.
- **Agricultural Recovery:** Assist in the recovery of the agricultural sector through the provision of seeds, tools, and financial aid.
- **Livelihood Support:** Implement programs to restore and support the livelihoods of affected farmers.

Revenue Department

- **Damage Assessment:** Conduct surveys to assess damage to property and livelihoods.
- **Compensation Processing:** Facilitate the processing and disbursement of compensation to affected individuals and families.
- **Land Management:** Identify and allocate safe zones for temporary relocation and rehabilitation.

Police Department

- **Security:** Ensure the security of affected areas and maintain law and order during evacuations and relief operations.
- **Evacuation Support:** Assist in the orderly evacuation of residents from flood-prone areas.
- **Traffic Management:** Manage traffic to ensure smooth transportation of relief materials and personnel.

Disaster Management Authority

- **Disaster Response Coordination:** Coordinate the overall disaster response efforts across all departments and agencies.
- **Training and Drills:** Conduct training and mock drills for emergency preparedness and response.
- **Risk Assessment:** Perform risk assessments and update flood preparedness plans regularly.

DEPARTMENTWISE OPERATIONAL PLANS

Disaster Management Services

I. Health Department Service

- The CEO (Health) shall be the incharge of these Services.

❖ Functions

- He shall cause to be prepared flood contingency plan pertaining to health department by 31st March every year.
- The CEO (Health) shall purchase complete emergency medicine by 30th April every year. All flood emergency related medicines shall be purchased in sufficient quantity.
- The DHO shall notify Health & Nutrition Coordination Committee comprising;
 - ❖ DHO Sialkot
 - ❖ DDHO Health Sialkot,
 - ❖ DDHO Health Daska,
 - ❖ DDHO Health Pasrur,
 - ❖ DDHO Health Sambrial,
 - ❖ CDCO,
 - ❖ DSV,
 - ❖ DSI,
 - ❖ Director DHDC,
 - ❖ IRMNCH Programme,
 - ❖ UNO
- The Health & Nutrition coordination committee shall hold meetings on weekly basis.
- The CEO (Health) and DHO shall arrange deficient stock of logistics supplies till 15th June. (Tents, Medicine stock)
- The CEO (Health) will nominate NGOs / CBOs who shall be helpful during flood till 2nd Week of April.
- The CEO (Health) and DO (H) shall ensure the supply of logistics and medicine stock at designated points till 20th June of every year.
- The CEO (Health) and DHO shall arrange orientation training of Medical Officers and paramedical staff about flood relief camps and disease reporting till 2nd well of June.
- The CEO (Health) shall review all these preparations till 04th week of June.
- On 1st July District Epidemic Response Team (DERT) will be activated by the DHO.
- From 1st July disease reporting shall be done on weekly basis.
- When flood emergency shall be declared, Mode of reporting shall be changed over to daily basis.

- Vaccination of Children EPF focal person
- Dengue control and Surveillance CDCO
- Distribution of Aqua Tab. L.H.W, L.H.S AND SHNS.
- Distribution of Mosquito Nets CDCO.
- Hospitalization of serious cases.
- Establishment of emergency dispensaries for first and medical care to those suffering injuries or illness as a consequence of disaster.
- Organization of mobile medical teams to cover remote areas or points where access is difficult.
- Adoption of preventive and curative measures to prevent occurrence and to stop spread of epidemics & other disease.
- Assistance in maintaining sanitary conditions in the disaster area.

II. WELFARE SERVICES

The ADC (G) shall be the incharge of these Services.

❖ Functions

- Co-ordinate with other Disaster Services and with aid giving agencies, including acceptance and distribution of donations in kind.
- To give aid and alleviate the miseries of the persons affected from the catastrophe and to look after the welfare of affected.
- Make an immediate survey of the disaster area and make a list of victims, individuals and families.
- Provide food and other basic necessities to victims on individual or family basis during the emergency period.
- Establish immediate Emergency Mass Feeding.
- Assist in the evacuation of population from danger zones in order to shift them to safer places.
- Establish, administer and supervise Relief Centers in schools, Municipal Buildings, tents, etc as a temporary shelter to homeless victims.
- Record the hospitalized, the dead, the injured and missing persons.
- Attend to Local and International Welfare inquiries about persons in disaster areas.
- Help disaster victims in establishing contacts with relatives and friends outside the affected area.
- Refer cases of victims, individuals and families to appropriate agencies for rehabilitation etc.
- Answer inquiries as to whereabouts of missing persons.
- Assist in location of family members of victims, facilitate reunion of dislocated families.
- Provide useful knowledge and skills to victims to help them in their return to normal living.
- Arrange activities to meet the diverse needs of disaster victims.

III. SECURITY SERVICES

- These services shall be under the direct charge of the District Police Officer, Sialkot in order to maintain peace and order and protect life and property in the disaster area.
- The Assistant Commissioner and DSP shall assist him in his task at Tehsil level.
- There shall also be a Liaison Officer from the Army included in these Services.

❖ Functions

- Establish security post at the temp. Relief camp.
- Maintain peace and order
- Enforce Law & Order.
- Apprehend/Arrest law violators
- Protect evacuated inhabitants and stocks of resources.
- Facilitate disaster operations by controlling the movement of the individuals.
- Handling the bodies of deceased persons.
- Detect and prevent disaster.
- Carry out initial rescue and survey operations
- Assist in saving lives and property
- To establish temporary Police Check Posts at the vulnerable points to stop the cuts / breaches on the left banks of Canals as given below: -
 - Jhatta on M.R. Link
 - Ganjianwali on M.R. Link
 - Ban Bajwa on M.R. Link
 - R.D 30-31 Daska on B.R.B
 - R.D 84-85 Veerwala on B.R.B
- He will direct traffic and plan alternative road connection.

IV. TRANSPORTATION SERVICES

- The Secretary RTA shall be the Head of these services;

❖ Functions

- This cell, in addition to the existing Transport shall also requisition vehicles from other Departments and public sector.
- Ensure adequate supply of POL for all transport in use of all departments especially the emergency response services.
- Manage, direct and control all available transportation facilities and ensures their appropriate and efficient utilization in the disaster area.
- All requests are to be forwarded to the transportation service in the following cases:

- Evacuation from the area under threat.
- Transportation of the affected population from the temporary relief camps to the permanent relief camps established in the school buildings.
- Prepare list of persons to be contacted for provision of Transport.
- Constitute Teams to bring transport in line.
- Tehsil wise acquisition & utilization of the transport.

V. AGRICULTURE DEPARTMENT SERVICES

- The Deputy Director (Agriculture) shall be the incharge of these Services.

❖ Functions

- They shall help the Irrigation Department in the supply of earth moving machinery for bund protections.
- Supply of seed for sowing of crops.
- Assist farmers on preparation and sowing of crops.
- Provide fertilizers and agricultural implements on loan basis.

VI. LIVE STOCK & DAIRY SERVICES

- The AD (Live stock) shall be the incharge of these services:

❖ Functions

- The AD (Live Stock) shall start pre-flood vaccination w.e.f 1st May every year throughout the District that shall continue upto 15th May every year.
- Vaccination against H.S., Foot & Mouth, Entro Toxemia, pleuropneumonia and N.D.
- The AD (Live Stock) shall issue duty roster to this effect by 31st March every year.
- Rescue live stock in coordination with other departments.
- Establish veterinary camps.
- Arrange all necessary medicine
- Treatment of Animals
- Provision of fodder and Wanda

VII. CIVIL DEFENCE SERVICES

- The Civil Defence Officer shall be the incharge of these Services helped by 400 volunteers.

❖ Functions

- He shall issue duty roster assigning duties of volunteers in case of flood emergency.
- He shall ensure issuance of flood warning through his volunteers in case of likelihood of flood.

- He shall arrange training of the volunteers with a special focus on warning, rescue and relief activities pertaining to flood emergency in the month of April every year.
- The volunteers shall also be imparted first Aid Training including artificial respiration, treatment of snake biting and emergency method of rescue.
- He shall conduct search and sweeping through Bomb Disposal Squad in case of any suspicion.

VIII. COMMUNICATION SERVICES

- The District Police Officer shall supervise the communication system at the District level.

❖ Functions

- They shall ensure that all the telephone connections and wireless sets are in working order during emergency period.
- It shall also connect strategic points with the nearest telephone exchange or through wireless connection.
- Director Telephones Sialkot shall ensure that the telephone numbers of important departments are always in working condition especially those given in attached List.

IX. ENGINEERING (MECHANICAL) SERVICES

The Assistant Agriculture Engineer shall be incharge of these services:

❖ Functions

- Provide machines and material for repair of bulldozers and tractors working on bunds.
- Establish workshop near the vulnerable points.
- The bulldozers of Agriculture Department shall be utilized for the strengthening of canal banks and to improve the flow of water through siphons.

X. FOOD SERVICES

- The District Food Controller shall be Incharge of these Services.
- He shall be assisted by his Assistant Food Controllers.

❖ Functions

- He shall ensure that adequate stock of Aata is available in the District.
- He shall prepare a plan for special ration depots at the strategic places.
- He shall organize mobile depots.

VIII. FOREST DEPARTMENT

The Divisional Forest Officer shall be the incharge of these services.

❖ Functions

- Shall provide "ABKALANI" material and assist the patrolling of bunds. He shall provide places for flood affected cattle-heads.

X. INFORMATION SERVICES

The District Information Officer shall be the incharge of these services.

❖ Functions

- He shall ensure that news media and the public receive correct information and warning messages.
- He shall plan and arrange the visits of newsmen to the flood affected areas in district Sialkot.

XI. IRRIGATION & POWER SERVICES

This department consists of the following members:

- Executive Engineer, Marala Barrage.
- Executive Engineer, Pasrur Link Division
- Executive Engineer, Rachna Division, Narowal
- Executive Engineer, U.C.C Gujranwala
- Executive Engineer, Drainage Division, Lahore
- Executive Engineer, Bund Division Lahore.

❖ Functions

- The department shall supervise, direct and control bund protection activities,
- Desilting of all syphons and inlets of UCC and MR Link.
- It shall also control various canals in the District.
- The XEN Pasrur Link division shall establish two emergency depots on the bank of Nullah Palkhu, Nullah Aik & Nullah Deg containing sand bags, poles etc. to cover the breach in the right bund of Aik.
- XEN Pasrur Link shall further deploy staff on Nullah Palkhu, Nullah Aik, Nullah Deg M.R. Link and UCC to keep vigilance and to act in case of emergency especially at sites of possible breaches.
- XEN Pasrur Link shall also be responsible for the breach through escape channel at the both side bank of the M.R Link to save the structures of the canal.
- XEN Marala shall be responsible of bund protection activities of River Chenab, Jammu Tawi & Minawar Tawi
- XEN Rachna Division shall establish emergency depots on the bank of Nullah Deg containing sand bags, poles etc. to cover the breach in the District Sialkot area.

XII. WAPDA-POWER SUPPLY SERVICES

the Superintending Engineer, WAPDA, Sialkot shall be the incharge of these services, assisted by his XENs in the districts.

❖ Functions

- He shall make lighting arrangements on the bunds for night patrol and protection activities.
- He shall also ensure orderly and regular power supply throughout the district in disaster emergency.
- He shall also establish emergency control room with telephone and mobile staff and shall work round the clock.

XIII. DISTRICT COUNCIL SERVICES

Chief Officer will be the incharge of these services within its respective area.

❖ **Functions**

- Establish emergency flood center of their organization with staff working round the clock.
- They shall keep the dewatering set in working condition.
- Drain stagnant water from low lying areas.
- Provide food and other basic necessities.
- They shall conduct survey of dangerous buildings.
- They shall further desilt the sewerage and open drains to help the drainage of flood and rain water from the affected area.
- The District Officer (I&S) shall provide potable water in affected areas and in relief camps.
- The District Officer (I&S) shall keep in hand adequate stores of spare parts, etc. for repair of necessary machinery and equipments.
- He shall also ensure that adequate supplies are available for chlorination of drinking water.
-

XIV. MUNICIPAL CORPORATION SERVICES

Chief Officer will be the incharge of these services within tehsil Sialkot.

❖ **Functions**

- Establish emergency flood center of their organization with staff working round the clock.
- The Chief Officer MC, Sialkot shall establish two flood emergency centers at following points:
 - Fire Brigade center Kutchery Road Sialkot.
 - Khawaja Safder Memorial Municipal Hospital
- They shall keep the dewatering set in working condition.
- Drain stagnant water from low lying areas.
- Provide food and other basic necessities.
- They shall conduct survey of dangerous buildings.
- They shall further desilt the sewerage and open drains to help the drainage of flood and rain water from the affected area.
- The Municipal Officer (I&S) shall provide potable water in affected areas and in relief camps.
- The Municipal Officer (I&S) shall keep in hand adequate stores of spare parts, etc. for repair of necessary machinery and equipments.
- He shall also ensure that adequate supplies are available for chlorination of drinking water.

XV. MUNICIPAL COMMITTEES SERVICES

Chief Officers shall be the incharge of these services within their respective tehsils.

❖ **Functions**

- Establish emergency flood center of their organization with staff working round the clock.
- They shall keep the dewatering set in working condition.
- Drain stagnant water from low lying areas.
- Provide food and other basic necessities.
- They shall conduct survey of dangerous buildings.
- They shall further desilt the sewerage and open drains to help the drainage of flood and rain water from the affected area.
- The Municipal Officer (I&S) shall provide potable water in affected areas and in relief camps.
- The Municipal Officer (I&S) shall keep in hand adequate stores of spare parts, etc. for repair of necessary machinery and equipments.
- He shall also ensure that adequate supplies are available for chlorination of drinking water.

XVI. ARMY SERVICES

The ADC (G) shall be the Liaison Offices of Civil Administration for liaison with the Army. The 104 Brigade shall nominate Liaison Officer for liaison with the Civil Administration. If help of the Army is required, they shall assist in rescue and evacuation operations, as also provide transport and communication facilities and assist the Irrigation authorities in bund protection.

XVII. XEN HIGHWAYSS

He will depute staff at important bridges and roads for maintenance.

He will arrange machinery for reapiir of breaches in roads for provision of relief and during evacuation,

He will arrange desilting in culverts and water ways on provincial and district roads

XVIII. DISTRICT NAZIR

District Nazir to keep account of expenditure of field operations during emergency and to cater to funds authorised by DDMA.

BREACHING SECTION OF HEAD MARALA WORKS

As per notification of Irrigation Deptment, Govt. of Punjab dated 15-07-2017 the SOP for breaching section and all instructions from Federal Flood Commission, the following procedure will be followed;

1. Maintenance and operation of breaching section at Head Marala shall rest with Irrigation Department i.e. XEN Irrigation, MaralaDevision.
2. Breaching section will be operated on orders of following committee;
 - i. Deputy Commissioner, Sialkot (Convener)
 - ii. Deputy Commissioner, Gujrat or his representative (in a case area affected falls outside the district in which breaching section is located).
 - iii. Executive Engineer, Irrigation, Marala Division.
 - iv. Executive Engineer, Highway Division, Sialkot.
 - v. Rep. of Pakistan Army not below rank of Lt. Colonel.
3. The decision to operate a breaching section shall be taken by the committee keeping in view the technical advice of the Executive Engineer concerned of the Irrigation Department. In case of any difference of opinion among the members, the final decision shall rest with the Deputy Commissioner, Sialkot.
4. The District Police Officer of Sialkot and Gujrat will deploy sufficient force to clear 01 KM area from both sides of breaching section.
5. The Civil Defence team be deployed to keep people/traffic at safe distance from breaching section.
6. XEN Irrigation will keep 04 number of 4x4 trucks ready for transport of explosives.
7. The explosives will be procured by Irrigation Department and all necessary equipment for breaching section should be kept in stock well in advance.
8. AC Sialkot will keep close liason with officer incharge of 01 Engineer for logistic support and coordination in case of emergency.

ANNEX I: LIST OF VILLAGES LIKELY TO BE AFFECTED BY CROSS BORDER FIRING

Tehsil Sialkot

Sr. No.	Name of Village	Population
1.	Umranwali	1170
2.	Joian	1800
3.	Bheelowal	800
4.	Khokhar	1200
5.	Chandar	600
6.	Sohanday	800
7.	Karloop	6000
8.	Wahgran	5000
9.	Ghari Boora	2000
10.	Tongar	1800
11.	Jhang	2600
12.	ChakPoondara	2000
13.	Khairi	1200
14.	Riyal	600
15.	Looni	700
16.	Sakhyal	1400
17.	Dheera	1300
18.	Kundal	930
19.	Badasar	620
20.	Kachi Mand	2030
21.	Bali Pur	1200
22.	Batooli	1100
23.	Sahoonti	1300
24.	Marwal	1550
25.	Chak Now	1470
26.	Chanor	1390
27.	Janglora	800
28.	Gadial	630
29.	KotliDilPattian	1300
30.	Kakran	2100
31.	Diyawara	1100
32.	Bajwal	1100
33.	Jog	900
34.	Kalian	1400
35.	Dhankot	500
36.	Thathi Kalan	3000
37.	Thathi Khurd	1600
38.	Mindarwal	3300
39.	Mahal Taijar	1850
40.	Meehal	1900
41.	Kundan Pur	1600
42.	Kajlial	1760
43.	Vance Uncha	1680
44.	Vance Neewan	1300
45.	Changa	1280
46.	Taho	1460
47.	Asu Mehta	1300
48.	Kurar	1400
49.	ChaniAsran	1950
50.	Banoot	1050
51.	Sagar Pur	2650
52.	RomalJuttan	1850
53.	Punuwal	2200
54.	Chaprar Khas	3300
55.	Chaprar Bala	5100
56.	Salehpur	1900
57.	JummianDalalan	700
58.	Batwal Kalan	1380

59.	Batwal Khurd	1050
60.	Madi Pur	3300
61.	Nand Pur	1650
62.	Dhool	1350
63.	Ghog	1400
64.	HaraspurMalany	1400
65.	Kaseery	2000

Tehsil Pasrur

Sr#	Name of Village	Population
1	Khanoor	1600
2	Mahal Kotli	2000
3	Mahal Langay	1200
4	Sangial	5000
5	Sarial	1800
6	Bhullay	1300
7	Bahlad Pur	2200
8	Mahal Tigra	1500
9	Said Nial	3350
10	Khadral	2850
11	Merajkay	3050
12	Kotli Khawaja	2200
13	Ladha Kang	700
14	Khokhar Chaba	1800
15	Jhumat	900
16	Jamal Jhand	2100
17	Charwa	13000
18	Thikeriala	2600
19	Badhwal	950
20	BeeniSulehrian	2700
21	Jarwal	2700
22	DhamalaSajan Wala	1500
23	Dhamala Hakim Wala	1560
24	Markal	2300
25	SyedaniWali	200
26	Tulsi Pur	1300
27	DhamalaDhasandi Wala	400
28	Dargal	900
29	Pandori	1800
30	Gandial	1700
31	Rangor	2400
32	Sapwal	2200
33	Kartal	2600
34	Sojan	1000
35	Dhandial	950
36	Nogran	1100
37	Nakhnal	1900
38	Gandial Ali Mardan	600
39	Bharthal	900

ANNEX II: LIST OF VILLAGES LIKELY TO BE AFFECTED BY FLOOD

JAMMU TAVI	
TEHSIL SIALKOT	
River Tavi	UC Phuklian
	i.Jhumbain Dalalan, Jhumbian gujran
	ii. Patwal
	iii.Salehpur
	iv.Mandhal

River Tavi	UC Kachi Mand
	i.TibaMerhal
	ii.Pindi Bajwa
River Tavi	UC Chaprar
	jhumainDilalan
RIVER CHANAB	
River Chanab	UC Kachi Mand
	i.Kaliar
	ii.Khanobhau
	iii.Pipeen
	iv.Gangwal
	v.Sadarpura
TEHSIL SAMBRIAL	
River Chanab	UC HABIBPUR
	i.PannuAtrari
	ii.ChakIkhtair
	iii.Bhakrianwali
	iv,Dour
	v.R.B
	vi.Khatulia
River Chanab	UC RandheerBhagrian
	i.BhagalGhrabi
	ii.BhagalSharqi
	iii.Hussain Pur
	iv.Randheer
	v.Merdakey
	vi.Chaoke Khurd
	vii.Chaoke Kalan
	viii.Kharl
	ix.DoburjiChandi Sing
	x.PakkiGali
NULLAH AIK	
Nullah Aik	UC PindiAryian
	i.PindiAryian
Nullah Aik	UC TalwaraMughlan
	i.AloChak
Nullah Aik	UC Neka Pura
	i.MohallahSujehabad
Nullah Aik	UC Habib Pura
	i.Mohallah Hayat Pura
	ii.Babe Brian
Nullah Aik	UC DoburjiAryian
	i.Behri Colony

Nullah Aik	UC Fateh Garh
	i.Bograh
Nullah Aik	UC Miani
	i.ShatabGarha
Nullah Aik	UC Adalat Garh
	i.AdalatGarh
	ii.Muzaffar Pur
	iii.Ganjanwali Khurd
	iv.Butter
Nullah Aik	UC. Ghuinkey
	i.Nagoor
	ii.Talwara
	iii.KotliMarlan
	iv.KotliBhago
Nullah Aik	UC Baddoke Cheema
	i.Baddoke Cheema
	ii.Purankey
	iii.GadialSharqi
	iv.GadialGharbi
Nullah Aik	UC Bhopalwala
	i.Bhopalwala
	ii.ChakKhena
Nullah Aik	UC Ballagan
	i.Ballagan
	ii.Dhillam
	iii.Kang
	iv.Chalokey
	v.Baryar
	vi.Waan
	vii.Ahmedabad
NULLAH BHED	
Nullah Bhed	UC KOTLI BEHRAM
	I.Azam Block
	ii.Rajput Colony
Nullah Bhed	UC Model Town
	i.Khadim Ali Road
	ii.Aamer Street
	iii.Capital Road
	iv.Mubarik Pura
	v.Ghulshan Town
Nullah Bhed	UC Jourian Kalan
	i.Gadray
	ii.Gandwali
	iii.Olak
NULLAH PALKHU	

Nullah Palkhu	UC.Kamanwala
	i.Qadarabad
	ii.Jhulki
	iii.Kamanwala
	iv.Karkhana
	UC.Ballanwala
	i.Ballanwala
	ii.Machi Khokhar
Nullah Palkhu	UC Jourian Kalan
	i.NawanPind
	ii.ChittiSheikhan
	iii.Nangal
	vi.Ghansarpur
	UC.Jhetikey
	I.Jhetikey
	ii.Karlwali
	iii.Roopwali
	UC Kopra
	i.Dhodowal
	ii.Dhadowali
	iii.Sarankey
	iv.Dera Moj Din
	v.GhulabGarh
	vi.Kopra
	vii.DeraBhattian
	UC Randheer
	i.Roheela
	ii.KotliMughlan
	iii.Siyanwali
	iv.PakkiGarhi

NULLAH DEG

Nullah Deg	UC Chahoor
	i.ChakMachana
	ii.Jabbokey
	iii.Nawaday
	iv.KotDhonda
	v.Kotbhonda
	vi. Pannakey
	vii.DaraNingal
	viii.Easpur
Nullah Deg	UC Takhat Pur
	i.Bhangey
	ii.Dheer
	iii.Khwan Cheema
	vi.PunjGraina Bajwa
	vi.Bhond
	vii.Mian Harpal

	viii.Bhagowali
Nullah Deg	UC Ballagan
	i.Baryar
	ii.Peera
	iii.Bhuda Khurd
	iv.Aadokey
	v.Roopowali
	vi.RasoolpurKakeyaian
	vii.Bhikkakey
Nullah Deg	UC Pejokey
	i.GurrarBaryar
	UC Kalaswala
	i.Mehdi Pur

ANNEX III: IDENTIFIED SITES FOR DISPLACED PERSONS

RELIEF CAMP SITES TEHSIL, SIALKOT

Sr#	NAME OF SECTOR	NAME OF SUB SECTOR	NAME OF RELIEF CAMP	ALTERNATIVE LOCATION	NAME OF SECTOR OFFICER	STAFF ON DUTY
1	Sialkot No.1	Sialkot City	1. Govt. High School No.2, Nekapura 2. Govt. Girls Degree College Hajipura	1. Govt. Boys, Jammia School, Sialkot. 2. Govt. Polite School, Sialkot	Office Kanungo, WBN Sialkot, Sec. UC DourburjiAriyan & Naika pura	All the Revenue Staff and Patwaris of the area assisted by Secretaries of Union Councils
2	-do-	Ura	1. Govt. Boys High School, RasoolpurBhallian	1. Union Council Office, Rasool Pur Bhallian 2. Govt. Girls Primary School, Sialkot	Kanungo & Sec. UC Langriali	-do-
3	-do-	Ugoki	Govt. Girls High School, Adalat Garh	Govt. Boys High School, Ugoki	Kanungo, & Sec. UC Ugoki & Adalat Garh	-do-
4	-do-	Khambranwala	G.B.P School, Kapoorwali	Govt. Boys High School, Kala Ghumana	Kanungo & Sec. UC Monger & Kapoorwali	-do-
5	Sialkot No. 2	Gondal	G.B.H.S. Gondal	Union Council Office, Gondal	Kanungo & Sec. UC Gondal	-do-
6	-do-	Chak Khoja	G.B.P.S Chak Khoja	G.G.H.S. Phuklian	Revenue Officer, Kanungo & Sec. UC Phulklian	-do-
7	-do-	Chaprar	G.B.H.S. Chaprar	G.G.H.S. Chaprar	Revenue Officer, Kanungo & Sec. UC Chaprar	-do-
8	-do-	Dalowali	G.G.H.S, Dalowali	Union Council Office, Dalowali	Patwari Halqa & Sec. UC Dalowali	-do-
9	-do-	Head Marala	G.B.H.S,Marala Colony	G.G.H.S, Marala	Revenue Officer & Sec. UC Marala	-do-

RELIEF CAMP SITES -OF TEHSIL, DASKA

Sr. No	NAME OF SECTOR	NAME OF SUB SECTOR	NAME OF RELIF CAMPS	ALTERNATIVE RELIEF CAMP	SECTOR OFFICER	STAFF ON DUTY
1	City Daska	Gardawar or HalqaDaska No. 1	Govt. Degree College, Daska	Municipal Stadium Daska	Tehsildar, Daska	All Patwari Halaqa Concerned
2	Daska No.2	Gardawar or HalqaDaska No. 2	Govt. Boys Primary School Gharha	Govt. Inter College Mitranwali	Naib- Tehsildar/ Reveneue officer HalqaDaska No. 2	-do-
3	Mirza Goraya	Gardawar or Halqa Mirza Ghoraya	Govt. Boys High School Ghuinke	Govt. Boys High School Bheelo Mahar	Naib- Tehsildar/ Reveneue officer Halqa Mirza Ghoraya	-do-
4	BudhaGoraya	Gardawar or HalqaBhudha Ghoraya	Govt. Boys High School MundakeyGhoraya	Govt. Elementry School Chiyawali	Naib- Tehsildar/ Reveneue officer Halqa BhudhaGhoraya	-do-

RELIEF CAMP SITES OF TEHSIL, SAMBRIAL

Sr. No	Name of Sector/ Officer	Name of Sub Sector	Location of Relief Camp	Alternative Location of Relief Camp	Sector Incharge	Staff on duty
1	Sambrial	Sambrial	Govt. Islamia College, Sambrial	Office, MC Sambrial	Tehsildar Sambrial	All Patwaris Halqa concerned assisted by Secretary UC
2	Gojra	Begowala	Office UC Bhopalwala	Office UC Begowala	Revenue Officer Gojra	-do-
3	Dhanawali	Dhanewala	Govt High School Kulluwal	Govt Promary School, Dhanewali	Revenue Officer Dhanewali	-do-
4	Randheer	Randheer	Govt High School Randheer	Office UC Habibpur	Revenue Officer, Sambrial	-do-

RELIEF CAMP SITES OF TEHSIL, PASRUR

Sr. No.	NAME OF SECTOR	NAME OF SUB SECTOR	LOCATION OF RELIEF CAMP	ALTERNATIVE LOCATION OF RELIEF CAMP	SECTOR INCHARGE	STAFF ON DUTY
1	Sector No. 1 Tehsil Office Pasrur	Govt. High School Thro Mandi	Union Council Office Chahoor	Govt. Primary School Ees Pur	Tehsildar Pasrur	All Patwaris Halqa concerned assisted by Secretary U.C
2	-do-	Union Council office DhulamKahlwan	BHU Sehowal	Govt. Primary School Sehowal	Revenue Officer Kingra	-do-
3	-do-	Govt. Primary School Bhambay	Govt. High School SabzKot	Union Council office Kingra	Revenue Officer Kingra	-do-
4	Sector No. 2 G.H.S Thro Mandi	Tehsil Office Pasrur	Govt. Primary School RupoWali	Union Council Office Ballagan	Revenue Officer Klaswala	-do-
5	-do-	Tehsil Office Pasrur	Union Council Office Soukinwind	Govt. Raza e Mustafa High School for boys Saukinwind.	Revenue Officer Soukinwind	-do-

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

S#	Health Facility Name	Location	GPS Coordinates	Health Facility Type (CD, BHU, RHC, THQ, DHQ)	Functional/ Non-Functional	Prone to Hazard? Floods/Earthquake
1	BHU Kuthiala	U/C Habib Pura, Tehsil Sambrial			Functional	Floods
2	BHU Randhir	U/C Randhir Tehsil Sambrial			Functional	Floods
3	BHU Kot Dina	U/C Jethikay Tehsil Sambrial			Functional	Floods
4	BHU Sahowala	U/C Sahowala, Tehsil Sambrial			Functional	Floods
5	BHU Seowal	U/C Chahoor Tehsil Pasrur			Functional	Floods
6	BHU Chicharwali	U/C Chicharwali Tehsil Pasrur			Functional	Floods
7	BHU Balaggan	U/C Balaggan Tehsil Pasrur			Functional	Floods
8	BHU Dhodha	U/C Taht Pur Tehsil Pasrur			Functional	Floods
9	BHU Beni Sulehrian	U/C Charwa, Tehsil Pasrur			Functional	Floods
10	BHU Jodhaywali	U/C PindiArain, Tehsil & District Sialkot			Functional	Floods
11	BHU Partanwali	U/C Hundal, Tehsil & District Sialkot			Functional	Floods
12	BHU BharthBhoth	U/C Bhoth, Tehsil & District Sialkot			Functional	Floods
13	BHU ChauniSulehrian,	U/C Paragpur, Tehsil & District Sialkot			Functional	Floods

ANNEX V: LIST OF VULNERABLE GOVERNMENT SCHOOLS

S#	School Name	Primary/ Middle/ High	EMIS	Functional/ Non-Functional	Enrolment	Incharge Name	Contact Number
1	GHS TI Gatialia	High	34320018	Functional	587	ShahidHussain	0301-6151225
2	GHS Kothiala	High	34340025	Functional	439	Ihsanulhaq	0333-4288376
3	GHS Islamiya Kalaswala	High	34320023	Functional	768	Kabir Ahmad Bhatti	0300-6190211
4	GHS KhanpurSaida	High	34320011	Functional	501	Maqsood Ahmad	0301-6308959

5	GHS Majrakalan	High	34340024	Functional	636	SarfaraazGhuman	0334-9861189
6	GHS Christian Daska	High	34310007	Functional	1051	IfhtiharCheema	0300-7433237
7	GGHS Bharth	High	34330052	Functional	829	Yasmeenkousar	0300-8632576
8	GGHSS Hundal	High	34330071	Functional	633	Naila Akbar	0300-7143507
9	GGHS Nawapind	High	34330013	Functional	933	TalatSaleem	0307-6357209
10	GGHSS Ogoki	High	34330009	Functional	2045	ShahnaazKhokhar	0333-8682830
11	GGHS Chahoor	High	34320076	Functional	490	SameenaSaleem	0304-8150188
12	GGHS TharoHarian	High	34320350	Functional	530	MumtaazBaigham	0308-6191267
13	GGHS Ghunkey	High	34310047	Functional	907	NosheenZohra	0300-6142368
14	GGHS Mitranwali	High	34310035	Functional	401	AzraParveen	0334-6743407
15	GGHS Gojra	High	34310036	Functional	552	Sumaera	0321-8633650
16	GGHS BhagatPur	High	34310057	Functional	457	Shumaila	0345-1425791
17	GMPS Salah Pur	Primary	34330593	Functional	87	M. Khalid	0302-4741320
18	GGPS JhumiyarDalalan	Primary	34330599	Functional	76	ZakiaBaighum	0314-4743161
19	GGPS BhatayKhurd	Primary	34330454	Functional	115	Noreen Akhtar	0341-3726364
20	GGPS Mahal	Primary	34330614	Functional	97	Nargis Noreen	0334-8022062
21	GMPS Kasiray	Primary	34330440	Functional	29	IramShahzadi	0300-0411017
22	GPS Nakhnal	Primary	34320289	Functional	261	Muhammad Saien	0335-4924896
23	GES Chahoor	Elementary	34320042	Functional	103	ShahidHussain	0301-6149636
24	GES Kingra	Elementary	34320302	Functional	152	Zulqarnain	0306-7416637
25	GES Looni	Elementary	34330084	Functional	208	M.Shahfique	0315-7127475
26	GES PulBajman	Elementary	34330085	Functional	438	Muhammad Yaqoob	052-4003681
27	GES SadarPura	Elementary	34330086	Functional	144	Muhammad Iqbal	0308-6146941
28	GES Kachiman	Elementary	34330083	Functional	240	Muhammad Arif	0346-1268475

ANNEX VI: LIST OF INDUSTRIES WITH THEIR RISK LEVEL

S#	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
1	Madina Dyeing	Pacca Garah near Old Sui Gas office, Sialkot	-	Dyeing of Cloth	Medium	Flood
2	Rizwan Rubber Works,	Sublime Chowk, Sialkot	-	Tennis Ball/ Rubber Ball	Medium	Flood
3	Manzar Rubber Works,	Haji Pura Bograh, Sialkot	-	Bladders Shell	Medium	Flood
4	Rehman Tannery	Haji Pura Bograh,	-	Tannery	Medium	Flood

		Sialkot				
5	Aamer Lather,	Haji Pura Bograh, Sialkot	-	Tannery	Medium	Flood
6	Younas Rubber Works,	Village Bonkan Pacca Garh Sialkot	-	Rubber Parts	High	Flood
7	Ijaz Rubber Works,	Khadim Ali Road, Sialkot	-	Bladders	High	Flood
8	Karam Traders,	Roras Road Sialkot	-	Cricket Bat & Ball	High	Flood
9	Vital (Pvt) Ltd.	Kashmir Road Sialkot	-	Waiving & Dyeing Cloth	Low	Flood
10	Noor Ahmed Surgical,	Nizam Pura Ban Pathak, Sialkot	-	Surgical Instruments	Low	Flood
11	Muhammad Farooq Surgical,	Haider Town Defence Road Street No.2 Sialkot	-	Surgical Printing	Medium	Flood
12	G Star Company,	Kamela Road Sialkot	-	Bladders	Medium	Flood
13	Suboo Surgical,	Muhammad Pura Sialkot	-	Surgical Instruments	Medium	Flood
14	Asghar Tannery,	Muzaffar Pur Sialkot	-	Tannery	Medium	Flood
15	Shabbir Rubber Works, t	Kamela Road Sialko	-	Rubber Parts	Medium	Flood
16	Goraya Surgical,	Amanat Pura Sialkot	-	Surgical Rubber Parts	Medium	Flood
17	Mani Industries,	Fateh Garh Sialkot	-	Tyres& tubes	Medium	Flood
18	Al Jadeed Rubber Works,	Sublime Chowk Sialkot	-	Bladders	Medium	Flood
19	Ittefaq Rubber Works,	Chaina Chowk, Sialkot	-	Rubber Sheets	Medium	Flood
20	AdressDeying Factory,	MohalalhChahLalariyan Sialkot	-	Dyeing	Medium	Flood
21	Maqbool Rubber,	Mohalah Taj Pura Sialkot	-	Tanis Ball	Low	Flood
22	Sikaf International,	China Chowk Wazirabad Road Sialkot	-	Rubber Products	Low	Flood
23	Riaz Rubber Works,	Pacca Garah Sialkot	-	Bladders	Medium	Flood
24	M. Sharif Surgical,	Mubarik Pura Roras Road, Sialkot	-	Surgical Instruments	Medium	Flood
25	Ashraf Rubber Works,	Pacca Garah Islam Nagar Sialkot	-	Bladders	Medium	Flood
26	Imtiaz Rubber,	Amanat Pura Sialkot	-	Rubber Hammers	Low	Flood
27	Ittefaque Rubber,	Muhammad Pura Sialkot	-	Bladders	Low	Flood
28	Awan Rubber Works,	Mohallah Taj Pura Sialkot	-	Tanis Ball	Medium	Flood
29	Hakeem Dyeing Factory,	MohallahChahLalariyan Sialkot--	-	Dyeing & Printing	Low	Flood
30	Ping Pong Rubber Works,	China Chowk Wazirabad Road Sialkot	-	Rubber Sheets	Medium	Flood
31	Sports Zone,	Bograh Haji Pura Sialkot	-	Gloves all Sorts	Low	Flood
32	Sh. Riaz Ameen Tannery,	Haji Pura Bograh Sialkot	-	Tannery	High	Flood
33	Ibrahim Impex,	Nasir Road Sialkot	-	Hockey Sticks	Medium	Flood
34	Solatch& Sons,	Christian Town Sialkot	-	Surgical Instruments	Medium	Flood

35	Top Fleight Leather Industry,	Haji Pura Bograh Sialkot	-	Leather Tanning	Medium	Flood
36	KSN International,	Haji Pura Sialkot	-	Leather Tanning	Medium	Flood
37	Farooq Dyeing	ChahLalariyan Sialkot	-	Dyeing of Cloth	High	Flood
38	Cliff Trading Co (Pvt) Ltd	, Nasir Road Sialkot	-	Beauty Instruments	Low	Flood
39	Ali BrtoEngg. Company,	Nizam Street KotliBehram Sialkot	-	Surgical Instruments	Medium	Flood
40	Mian Ice Factory,	GohadpurKotliBehram Sialkot	-	Ice Factory	Low	Flood
41	Pak Ice Factory	, Church Road Sialkot City	-	Ice Factory	Low	Flood
42	Clasico (PVT) Ltd.	Nasir Road Sialkot	-	Rubber Parts	Low	Flood
43	Shah Abad Ice Factory,	Haji Pura Road, Sialkot	-	Ice Factory	Low	Flood
44	Sheikh Abdul wahid& Iqbal Butt,	Haji Pura Sialkot	-	Tannery	Medium	Flood
45	Shan Dyeing	Roras Road/Defence Road Sialkot	-	Dyeing of Leather Cloth	Medium	Flood
46	Saleem Flour Mills	Haji Pura Road Sialkot	-	Flour Mill	Low	Flood
47	Garana Surgical,	Christian Town Sialkot	-	Surgical Instruments	Low	Flood
48	Barna International,	Roras Road Sialkot	-	Cricket Bat	Medium	Flood
49	CA Sports,	Haji Pura Bograh Sialkot	-	Cricket Bats & Kits	Low	Flood
50	Rakha Impex,	Nasir Road Sialkot	-	Tannery	Medium	Flood
51	Atlas Sports,	Nasir Road Sialkot	-	Football	Low	Flood
52	Ballon De Sports,	Nasir Road Sialkot	-	Football	Low	Flood
53	Kashmir Rice Mills,	Shahab Pura Sialkot	-	Rice Mill	Low	Flood
54	Fairmount Industry,	KotliBehram Khadim Ali Road Sialkot	-	Surgical Instruments	Low	Flood
55	Chaudhry Ice Factory,	Gohad Pur Chowk Sialkot	-	Ice Factory	Low	Flood
56	Shahbaz Ice Factory,	Haji Pura Road Sialkot	-	Ice Factory	Low	Flood
57	Rana Ice Factory,	Ugokki Sialkot	-	Ice Factory	Low	Flood
58	Sialkot Ice Factory,	Pacca Garah Sialkot	-	Ice Factory	Low	Flood
59	Qurick Enterprises,	Harrar, Sialkot	-	Tanis Ball	Medium	Flood
60	Ghulam Mustafa Rubber Ball,	Harrar Sialkot	-	Tanis Ball	Medium	Flood
61	Technimen Aga (Pvt) Ltd.	Kashmir Road Sialkot	-	Surgical Instruments	Low	Flood
62	M.AAraian,	Kashmir Road Sialkot	-	Surgical Instruments	Low	Flood
63	EEzan Pak Industry,	Jinnah Stadium Amanat Pura Sialkot	-	Leather Jackets	Low	Flood
64	Malik Flour Mills,	Ghalla Mandi Sialkot	-	Flour Mills	Low	Flood
65	Kissan Leather	Haji Pura Bograh, Sialkot	-	Tannery, Gloves	Low	Flood
66	Spotlite Trading (Pvt) Ltd.	Nasir Road Sialkot	-	Leather Garments	Low	Flood
67	Leather Field (Pvt) Ltd.	Capital Road Sialkot-	-	Leather Garments	Low	Flood

68	Swisspo Sports,	Christian Town Sialkot	-	Leather Garments	Low	Flood
69	Hot Cake Bakers,	Kashmir Road Sialkot	-	Bakery	Medium	Flood
70	Muslim Tannery,	Khadim Ali Road Sialkot	-	Tannery	Medium	Flood
71	Medisporex Private Limited,	Nasir Road Sialkot	-	Surgical Instruments	Low	Flood
72	Azeem Mughal Surgical factory,	Sambrial Road Daska	-	Surgical Instruments	Medium	Flood
73	Awan Sports,	ShahtabGarah Sialkot	-	Sports Goods	Low	Flood
74	Almi Industry,	Pasrur Road Daska	-	Excel	Medium	Flood
75	Nawaz Golden Industry,	Sambrial Road Daska	-	Agriculture Implements	Low	Flood
76	Mughal Engineering Factory,	Circular Road Daska	-	Melting Iron	Low	Flood
77	Yousaf Ice Factory,	Pasrur Road near Masjid AhleHadees, Daska	-	Ice Factory	Medium	Flood
78	M.Z. Furnace,	near Family Hospital Sambrial Road Daska	-	Scissors	Medium	Flood
79	Mirza Altaf Hammer & Press Unit,	Sambrial Road Daska	-	Surgical Instruments	Medium	Flood
80	Mushtaq Auto Parts,	Circular Road Street Chicken Munch Daska	-	Auto Parts	Medium	Flood
81	Sana Ullah Press Unit,	Sambrial Road near Family Hospital Daska	-	Press Unit	Medium	Flood
82	M.R.S. Hammer & Press Unit, Hospital Daska	Sambrial Road near Family	-	Surgical Instruments	Medium	Flood
83	Naeem Industry,	Sambrial Road near Family Hospital Daska	-	Auto Parts	Medium	Flood
84	Mirza Atif Press Cutting Unit,	Sambrial Road Opposite Church Daska	-	Surgical Instruments	Medium	Flood
85	Munir Ahmed Surgical,	Sambrial Road near Family Hospital Daska	-	Surgical + Scissors	Medium	Flood
86	Haji Saeed Surgical,	Sambrial Road near Family Hospital Daska	-	Surgical Instruments	Medium	Flood
87	Sialkot Tennary Zone	Airport Road, Sialkot	-	Tennary Products	High	Flood

ANNEX VII: 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)	Contact Person Name	Contact Person Mobile
1	Anjuman-e-Sheikhen	Local National	Near Qila Urdu bazar, Sialkot	Health	Sheikh Muhammad Ashraf	03008712003
2	District T.B. Association. (Chest and General Welfare Hospital)	-do-	Commissioner Sialkot	Health	Rehman Shami	052-4581869 4591239
3	Allama Iqbal Memorial (Social Welfare Society)	-do-	Imam Shahib, Sialkot	Education	Iftikhar Ahmed	0300-8611410
4	Anjman-e-Mughalia	-do-	Maharaja road Sialkot	Health	Naeem Akhter	0300-8616023
5	Khidmat Committee -	-do-	Khadim Ali road Sialkot	Health	Amnatullah Malik	0300-7159234 / 0300-8610414
6	Jammu and Kashmir Welfare Trust	-do-	Prem Nager Abbot road	Health	Shaiekh Muhammad Saleem	0300-2011784
7	Pakistan Council for Social Welfare and Human Rights	-do-	Muradia Road Model Town, Sialkot	Education	Muhammad Ijaz Noori	0300-6199622
8	Farukh Zahur Education Foundation	-do-	Room No 48First Floor Mian Mohammad Din Plaza Sialkot	Education	Dr.Khurram Anwar	0300-9613912 /03008616996
9	Allama Iqbal Welfare Foundation	-do-	Sublime Chowk ,Near Hotel One, Sialkot	Health	Muhammad Ikram	0300-9616261
10	Madad gar Welfare Society	-do-	49 Khadim Ali Road Model town Sialkot	Health,Others	Muhammad Saleem	0300-8615671
11	Aleem Welfare General Hospital & cornia Sialkot.	-do-	Jammu road near govt school boys Sialkot.	Health	DR. Abdul AleemHamayoun	0322-7493749
12	Big charity Welfare Organization	-do-	Uggoki Model Town Sialkot.	Health	Dr. Laieq Akmal	0300-8710925
13	Gulsan-e-Muhammadi Welfare Foundation	-do-	Airport roGohadpur Sialkot	Health	. Qari Umar Waqas	0310-7181122
14	Young Blood Foundation	-do-	Melad Chowk Daska	Health, Anti Narcotics Hospital, Education, Sports	Tanveer Ahmed Mughal	0300-6430130
15	Patient Welfare Society	-do-	Civil Hospital Daska	Health	Muhammad Ameen Tharohi	0300-8742127

ANNEX VIII: CONTACT LIST OF MAIN STAKEHOLDERS/ DEPARTMENTS

Sr#	Department	Designation	Telephone Number	
			Office	Residence
1	Revenue	Commissioner, Gujranwala	055-9201326	0304-0920051
2	Revenue	Deputy Commissioner/Chairman DDMA	052-9250451-4	0304-0920065
3	Police	District Police Officer	052-9250321-23	0308-7865550
4	Zila Council/Chairman	Deputy Commissioner/Chairman DDMA	052-9250451-4	0304-0920065
5	Municipal Corporation-Sialkot	Chief Officer	052-9250148	0345-8794768
6	Revenue	Additional Deputy Commissioner (General)	052-9250456	0300-9680888
7	Revenue	Additional Deputy Commissioner (Rev)/ Flood Relief Officer	052-9250466	0333-9312056
8	Finance	Additional Deputy Commissioner (F&P)	052-9250122	0334-7755055
9	Revenue	Assistant Commissioner, Sialkot	052-9250790	0323-5520950
10	Revenue	Assistant Commissioner, Daska	052-9200115	0300-4487417
11	Revenue	Assistant Commissioner, Sambrial	052-9200570	0301-7901192
12	Revenue	Assistant Commissioner, Pasrur	052-6443566	0323-8880397
13	Rescue 1122	DEO Rescue 1122/Secretary DDMA	052-9250257	0331-6540399
14	PIU-PDMA	District Disaster Management Coordinator	052-9250523	0305-6186283
15	District Education Authority	Chief Executive Officer	052-9250194	0321-6926969
16	District Health Authority	Chief Executive Officer	052-9330166	0333-7775007
17	GEPCO	Superintending Engineer	052-9330688	0318-3992400
18	Irrigation Marala Division	Executive Engineer	052-3502102	0346-4132454
19	Irrigation Pasrur Link	Executive Engineer	052-9250088	0321-4116234
20	Highway Division	XEN Highway	052-9250306	0300-8191573
21	Drainage	Executive Engineer		
22	Building Division	XEN Buildings	052-9250305	0346-5317961
23	Public Health Engineering Department	Executive Engineer	052-3572994	0301-8718008
24	Revenue	Tehsildar, Sialkot	052-9250790	0300-6108492
25	Revenue	Tehsildar, Daska	052-9200117	0300-6521198
26	Revenue	Tehsildar, Sambrial	052-6524032	0300-6119919
27	Revenue	Tehsildar, Pasrur	052-6441478	0345-0400416
28	District Council	Chief Officer	052-9250530	0300-9412531
29	Municipal Corporation-Sialkot	Chief Officer	052-9250148	0345-8794768
30	Municipal Committee-Daska	Chief Officer	052-9200051	0304-6189545
31	Municipal Committee-Pasrur	Chief Officer	052-6442359	0346-6614901
32	Municipal Committee-Sambrial	Chief Officer	052-9200575	0301-5533535
33	Civil Defense	Civil Defence Officer	052-9250030	0300-4593513
34	Social Welfare	Deputy Director	052-9250491	0333-8625034
35	Agriculture (EXT)	Deputy Director	052-9250311	0300-8121520
36	Livestock	Assistant Director	052-3307155	0300-6295343
37	Food Department	District Food Controller	052-9250244	0300-9250040

38	SNGPL	RM	052-3251350	0333-8271723
39	Police	DO, Special Branch	052-4293333	0321-6122122
40	Building (Maintenance & Repair)	SDO	052-9250308	
41	Road (Maintenance & Repair)	SDO		
42		Secretary	052-9250457	
43	Information	District Information Officer	052-3254700	0334-9992220
44	AIMS Hospital	Medical Superintendent	052-9250062	0331-4649778
45	Govt. Sardar Begum Hospital	Medical Superintendent	052-9250128-29	0331-4649778
46	Social Security	Medical Superintendent	052-3307061	
47	Metrological Department	Electronic Engineer	052-4267195	0333-8612475

ANNEX XIII-B: LIST OF VOLUNTEERS/RESCUE MUHAJIZ

S. #	Name	CNIC	Address	Cell	Blood Group
1	Sameer Razzaq	34603-1531776-1	14/292 Haji Pura, SKT	0336-1611122	O+
2	M. Munir	34603-3421605-9	PippleWali Galli, KotliBehram, SKT	0300-6136992	O+
3	Asad Hafeez	34603-3267722-3	Shahab pura	0301-6189043	A+
4	Jave Iqbal Butt	34603-3586676-5	Jalian Wala, Ugoki SKT	0300-7104748	B+
5	Salim Ur Rehman	34603-2337773-9	15/79A Chiragh Pura, SKT	0303-4914930	O+
6	Mujahid Hussain	34603-2346090-3	Mubarik Pura, Nai Abadi, SKT	0306-6361122	AB+
7	Asif Ali	34603-4518038-7	Fateh Garh, SKT	0345-6814143	B+
8	Shamas Ali	34602-5887545-9	Gunah kalan	0316-7383467	O+
9	Hamza Akram	34603-8229364-9	Kamanwala	0336-4766185	A+
10	Umer Habib	34603-4011228-9	NawaPind, Akbarabad, SKT	0347-6779784	A+
11	Kishore Kumar	34603-2301269-3	Pura Hairana, SKT	0300-6184363	O+
12	Raza-E-Mustafa	34104-2363357-3	New Adalat Garh, SKT	0345-6693257	O+
13	Naveed Akhter	34603-5050060-7	Nai Abadi KotliLoharan, SKT	0333-8631993	B+
14	Usman Riaz	34603-6383333-5	Kour Pur, SKT	0346-6605569	B+
15	Muzzaffar Shahzad	34603-3489456-9	Nia Miana Pura East, SKT	0333-8707066	A+
16	Ali Hassan	34603-5636034-9	Pakki Kotli	0312-7354482	A+
17	Farhan Haider	34603-4453143-3	Haji pura	0332-3725151	B+
18	Fazal Hussain	34601-0806814-1	Allo Mahar, Daska, SKT	0344-6386206	B+

19	Zameer Ul Hassan	34601-5312281-3	Allo Mahar, Daska, SKT	0345-6514414	O+
20	Allah Yar	34602-5080441-1	Jojo Pur, Pasrur, SKT	0303-9474453	B+
21	Faizan Mughal	34603-9613646-9	KotliBehram, SKT	0332-1421122	AB+
22	Khurram Ahmed	34603-3312407-9	Haji pura ban	0310-7371401	B+
23	Sameer Irfan	35201-8421762-1	Kashmiri mohala sialkot	0305-4270765	B+
24	Azmat Ullah	34603-6022935-7	Shahabpura, SKT	0322-7512273	O+
25	Aizak John	34603-4243375-5	Harar Nol, SKT	0322-7030510	A+
26	M Attique	34603-4689400-9	marakiwal	0334-0425905	B+
27	Junaid Butt	34603-2812113-1	Nizamabad, SKT	0314-4741691	B+
28	Shahbaz Khan	34602-7368376-3	Abdali, Pasrur, SKT	0322-7123303	O+
29	Faizan Shabbir	34603-2376099-7	MohallahAjarain, SKT	0333-4973333	O+
30	M. Sohail	34603-9852486-9	JalianWala, Ugoki, SKT	0345-6740661	O+
31	Danish	34603-3945848-9	Bhais vill sialkot	0328-1296451	A+
32	Noman Manzoor	34603-1261511-9	Pakkah garah	0300-0474927	B+
33	Danial Azam	34603-9240255-3	Chaprar sialkot	0327-9970349	A-
34	Mateen	34603-1227019-5	Post office khas bhoth sialkot	0318-7892574	
35	Khurram Shahzad	34603-5231176-5	Ward No.6 Cantt SKT	0337-0424187	A+
36	Ansar Ali	34603-2601589-1	Muhallah usman nagar new Abadi Bounkan sialkot	0344-6456566	B+
37	Muhammad Adeel	34603-6819712-9	Propi araian	0314-3960034	A+
38	Zeeshan Haider	34603-2116349-5	Moh awanan rang pura	0320-7300512	B+
39	Raheel Shamas	34603-8400023-7	chaudhary Street Christian town chowk barra pathar	0311-6706571	B+
40	Waheed Khan	31102-8164873-7	bhoth	0300-4031020	B+
41	Useed Ahmad	34603-2019007-5	Hail Bajwan Bajwat Sialkot	0309-2706830	AB+
42	Sumair Afzal	34603-3205308-7	Langeali	0306-6496970	B+
43	Badar Munir	34603-8483845-9	Hadali tehsil sialkot	0324-5839492	A+
44	Abdul Rehman	34603-2331028-5	hundal	0347-6762783	A+
45	Salman Hasan	34603-6769922-7	Water works	0302-6966738	B+

46	Muhammad Hamid	34603-2291978-1	Kotli loharan	0301-1541122	O+
47	Hamid Ali	34603-2307602-3	Kapoor wali	0311-0495934	O+
48	Hamid Karamat	34603-4070517-5	Kotli behram hadam Ali rod Haji muhala	0336-8600096	AB+
49	Zain Mozam	34603-2925382-5	Post office khambrawala tahsil district Sialkot	0342-3747062	AB+
50	Muhammad Shahzad	34603-2675645-9	KOR PUR	0349-8229291	AB+

ANNEX IX: POLITICAL CONSTITUENCIES

National Constituencies				Provincial Constituencies			
Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number	Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number
NA-70	Ch. Armghan Subhan		0300-8614123 052-4260154	PP-44	Arif iqbal		0300-8711108
NA-71	Kh. Muhammad Asif		0300-8440640 052-4261478 052-4262478	PP-45 PP-46 PP-47	Tariq Subhani Faisal Ikram Mansha Ullah Butt		0300-5355357 0300-8712222 0300-8710334
NA-72	Mr. Ali Zahid		0300-8477181 052-6441057 042-36662855	PP-48 PP-49	Khurram Virak Rana Fiaz		0321-4660654 0323-3333329
NA-73	Nosheen Iftikhar		0321-8418887 052-6227401	PP-50 PP-51	Ch. Naveed Ashraf Zeeshan Rafique		0300-9768888 0300-8659192
NA-74	Muhammad Aslam Ghumman		0333-4333333	PP-52 PP-53	Ch. Arshad Warraich Rana Abdul Sattar		0300-8616595 0305-4444444

ANNEX X: POLITICAL CONSTITUENCIES

SR NO.	DESIGNATION	DISTRICT/TEHSIL	NAME	MOBILE #
1	CO MC SIALKOT	SIALKOT	Malik Ijaz	0345-8794768
2	CO MC DASKA	DASKA	Ulfat Shahzad	0300-9412531
3	CO MC PASRUR	PASRUR	Abdul Hayee	0304-6189545
4	CO MC SAMBRIAL	SAMBRIAL	Umer Shujah	0301-5533535

P4: Cattle Head Perished

District: _____

Date: _____

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

District: _____

Date: _____

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Focal Person: _____

Date: _____

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

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

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

ANNEX XIII: RIVER DISCHARGE RATES

1. Major Nullahs/River

- River Chenab &JummuTawi
- Nullah Aik (*Length in Sialkot District = 41Miles*)
- Nullah Dek(*Length in Sialkot District = 33 Miles*)
- Nullah Palkhu(*Length in Sialkot District = 52 Miles*)
- Nullah Bhed (*Length in Sialkot District = 13 Miles*)

2. Major Bunds

- i. Right Marginal Bund
- ii. Left Marginal Bund
- iii. Colony Protection Bund cum Left Flood Protection Bund

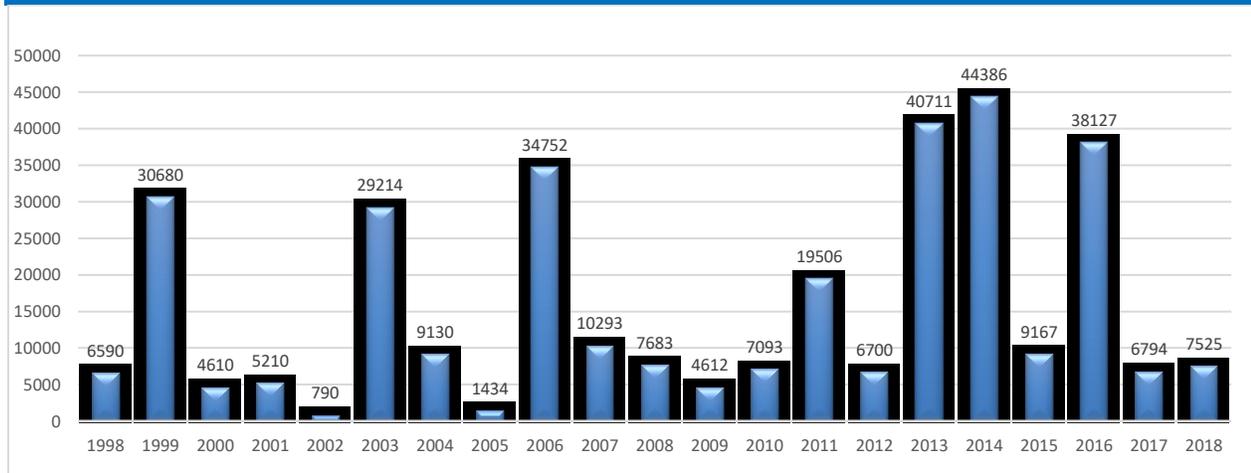
3. Flood Levels

River/ Nullah	Maximum Capacity (Cs)	Classification of flood limits (Cs)		
		Low	High	Very High
River Chenab	1,100,000	100,000	400,000	600,000
Nullah Deg Kingra	75,000	10,000	30,000	45,000
Nullah Aik at Ura	25,000	2,000	9,000	33,000
Nullah Palkhu at Cantt. Bridge	3,000	1,200	2,000	3,000

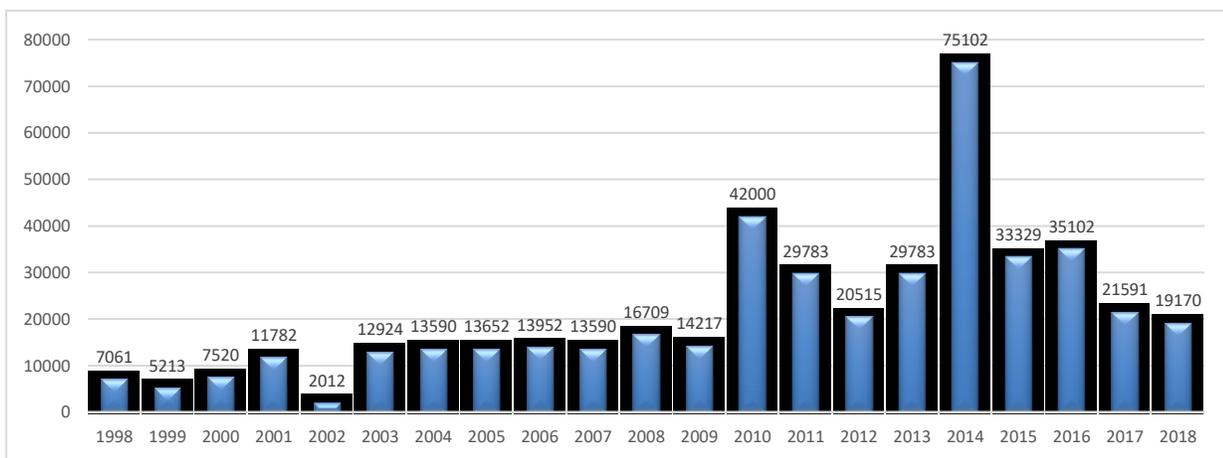
4. Maximum Water Discharges in Recent Past

Sr#	Name of Nullahs / River	Maximum Capacity (Cs)	Highest Discharge	Discharge 2014	Discharge 2017	Discharge 2018	Discharge 2023	Discharge 2024
1	Chenab River	1,100,000	858,464 (2014)	858,464	216,020	201,878	210,983	178,750
2	Deg Nullah at Kingra	75,000	75,102 (2014)	75,102	21,591	19,170	31,556	10,983
3	Aik Nullah at Ura	25,000	44,386 (2014)	44,386	6,794	7,525	5,873	15,541
4	Palku Nullah	3,000	3,070 (2017)	3,040	3,070	1,159	1,377	777

DISCHARGES IN NULLAH AIK IN LAST 20 YEARS



DISCHARGES IN NULLAH DEG IN LAST 20 YEARS



FLOOD LIMITS IN RIVER/NULLAHS

River/ Nullah	Maximum Capacity (Cs)	Classification of flood limits (Cs)		
		Low	High	Very High
River Chenab	1,100,000	100,000	400,000	250000
Nullah Deg Kingra	75,000	10,000	30,000	450,000
Nullah Aik at Ura	25,000	2,000	9000	33000
Nullah Palkhu at Cant Bridge	3,000	1,500	3,000	3,500
Nullah Bhed	3500	1500	2000	2500 and above

ANNEX XIV: LIST OF BASIC TERMS

Acceptable risk

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

Biological hazard

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

Capacity

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

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

Capacity building

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

Climate change

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

Coping capacity

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

Disaster

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

Disaster risk management (DRM)

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

Disaster risk reduction/disaster reduction

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

Early warning

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

Emergency management

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

Forecast

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

Geological hazard

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