

FLOOD PLAN - 2020



OFFICE OF THE DEPUTY COMMISSIONER, LAHORE

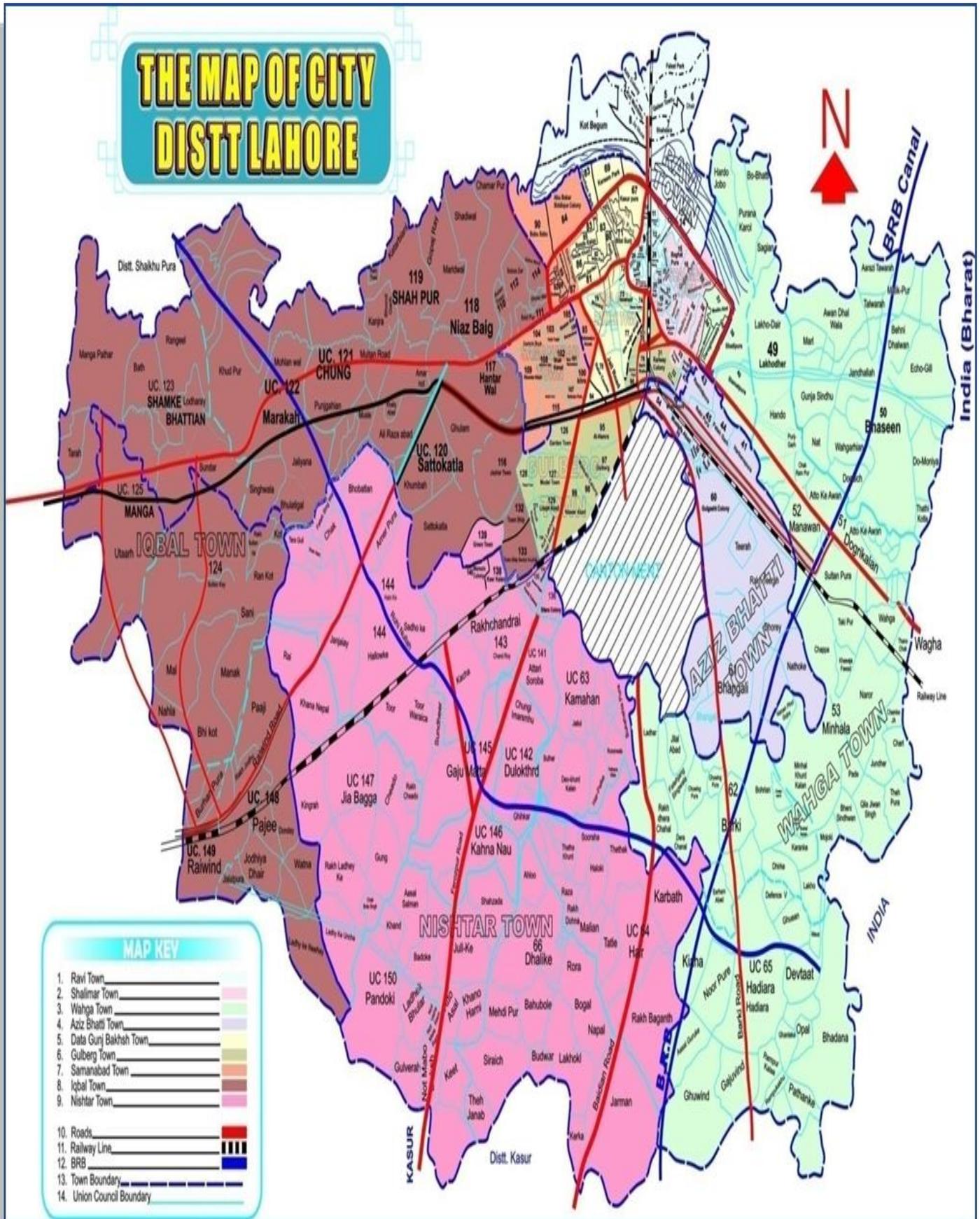
FOREWORD

Lahore is prone to flooding during monsoon season. Incessant rains always pose two pronged challenge i.e. from low degree to high degree flood depending upon the intensity of rains in catchment areas of River Ravi and accumulation of rain water in low lying areas of District Lahore. A befitting state of preparedness and with minimum reaction time in case of emergency requires a comprehensive planning. Through “Flood Plan 2020”, Lahore District aims at saving life and property, protecting vital installation and organizing timely information, evacuation, rescue, relief and rehabilitation operations.

Lahore District is protected by Shahdara and Sharakpur bunds on the right side and by Mehmood Booti on the left. To save the population from the havocs of flood, a survey of the protection bunds has been got completed by the authorities of Irrigation Department in Coordination with Revenue Department. Necessary repair / maintenance work will be completed by 10th June, 2020 positively.

All departments including LESCO, PTCL, SWM, Rescue 1122, WASA, Livestock, Health, PHA and Civil Defence have prepared comprehensive Contingency Plans which will help counter the havoc played by the floods. Once more the officers of CDGL under the aegis of Deputy Commissioner, Lahore are on the vanguard to combat any emergency.

Figure 1: Lahore Map



INDEX

FOREWORD	1
INDEX	3
INTRODUCTION	4
List of Areas/Villages at Risk in HIGH Flood (2.0 Lac Cusecs)	6
List of Areas/Villages at Risk in MEDIUM Flood (1 Lac Cusecs)	7
TIME LAG	9
FLOOD LIMITS (lac Cusecs)	9
PRE-FLOOD ARRANGEMENTS	10
DISTRICT FLOOD RELIEF COMMITTEE	11
CONTROL ROOM	12
WARNING SYSTEM.....	12
INSPECTION OF BUNDS	12
VACCINE.....	13
SURVEY OF THE WEAK STRUCTURES / BUILDINGS	13
DEWATERING.....	13
WATER PURIFICATION.....	13
ANTI-SNAKE BITE MEASURES	13
ANTI-DIARRHOEAL MEASURES	14
LIAISON WITH LOCAL ARMY UNITS	14
FLOOD FIGHTING STRATEGY	15
PRE-FLOOD WATCHING ARRANGEMENT	16
EVACUATION PLAN	17
DEPARTMENTAL PLANS	19
CIVIL DEFENCE	20
MCL	25
WASA	<u>42</u>
RESCUE 1122.....	<u>75</u>
IRRIGATION.....	<u>82</u>
LIVESTOCK.....	<u>158</u>
HEALTH.....	<u>168</u>

OBJECTIVE

Objective of this plan is to

- a. Save life and property.
- b. Minimize human misery and sufferings.
- c. Protect vital installations and equipment.
- d. Evacuation, rescue, relief and rehabilitation measures.

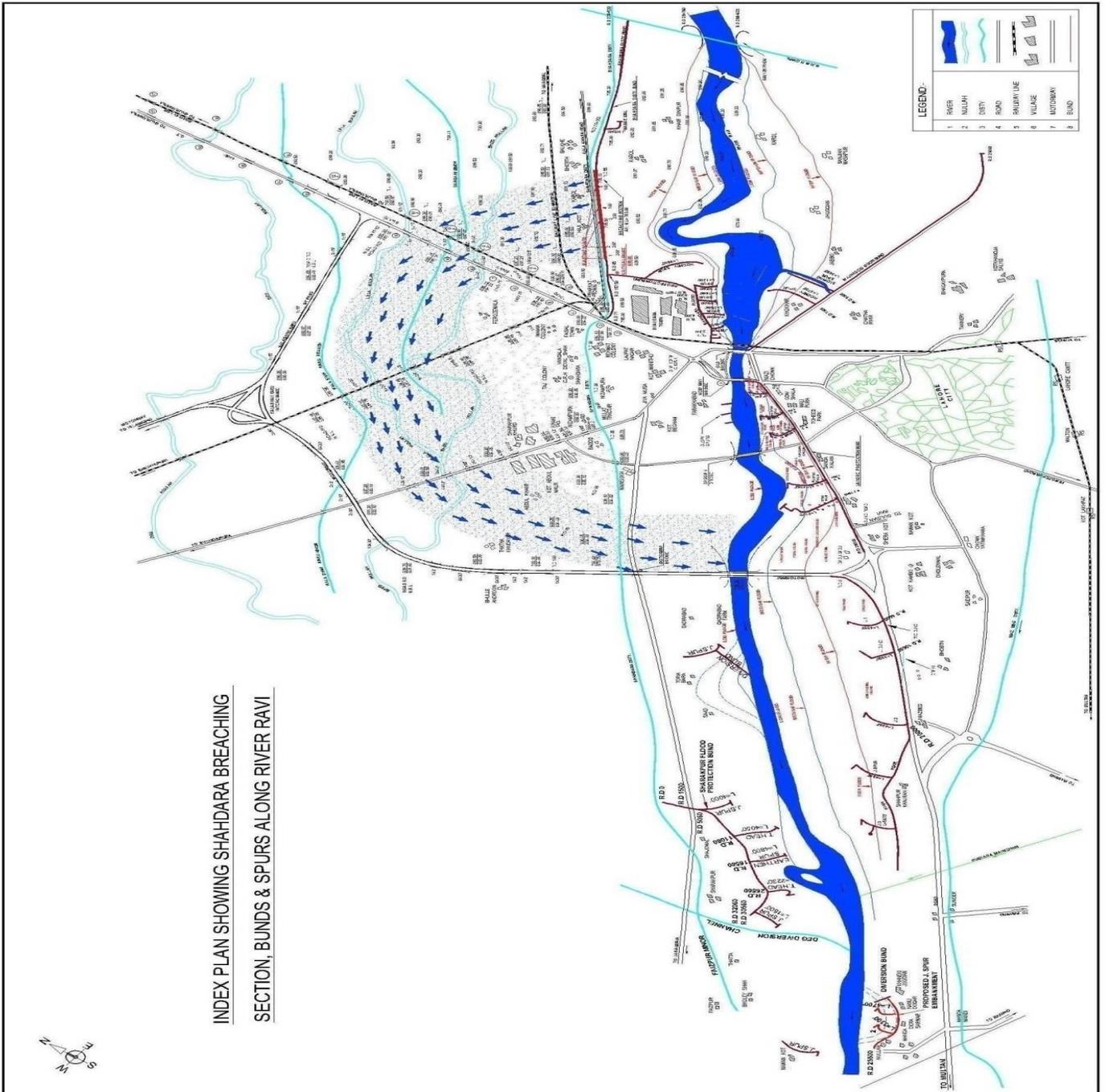
HISTORY OF FLOODS

There are three gauging stations upto Shahdara Railway Bridge when river Ravi enters into territory of Pakistan viz, Jassar, Ravi Syphon and Railway Bridge Shahdara. The first head works on this River in Pakistan is Balloki Head Works.

The gauge fixed at Shahdara Railway Bridge is recorded regularly during the flood season. In 1947, exceptional high flood of 225000 Cs was recorded at this site. In 1955 flood of 542000 Cs was experienced at Shahdara. In 1973, flood of 237380 Cs was noted at this site. During the flood of 1988, discharge of 326000 Cs. was experienced at this site. The gauge observed at Shahdara Railway Bridge was R.L. 694.70 feet, when breaching section was operated during this flood. The Shahdara Flood Protection Bund breached at RD.13± and 15± when breaching section between RD.55+000 to 65+000 of Shahdara Distributary Bund was operated during this flood. The discharge of breached section at cut in the Shahdara Flood Protection Bund was estimated to be 1.0 Lac Cs. This discharge caused inundation of Shahdara Zone and its suburbs. All the roads and other infrastructure came under water with varying depth from one foot to eight feet.

Massive destruction was caused by the flood of 1988 in Shahdara and allied abadies. After 1988, the significant floods were experienced in 1993, 1995, 1996 & 1997 recorded as 91415, 171520, 182340 and 123080 Cs respectively. Since 1997, no real flood situation has been noted at Shahdara.

Figure 2: River Ravi Floods – Water Flow



Source: Irrigation Department Punjab

List of Areas/Villages at Risk in HIGH Flood (2.0 Lac Cusecs)

Sr. No	AREAS/VILLAGES AT RISK	POPULATION AFFECTED (Approx.)	DESIGNATED CAMP SITE	CAMP INCHARGE (Designation/Phone)
WAHGA ZONE LAHORE				
1.	Awan Dhai Wala	8000 persons	1. Government Higher Secondary School Dograi Kallan Jallo More. 2. Government High School Bhaseen.	Mr. Qaisar Farooq (Sub-Engineer) 0333-4161436 Mr. Abdul Wahab (Sub-Engineer) 0311-4646339
2.	Malik Pur	1800 persons		
3.	Bhaini	2000 persons		
4.	Jhandiala	5000 persons		
5.	Talwarra	3000 persons		
6.	Marl Marri	2000 persons		
7.	Ganjay Sindhuwan	5000 persons		
CIRCLE SANDA - SAMANABAD ZONE / CITY				
1	Sanda Kalan	175 houses	1. Musarat Girls High School 2. Shell Petrol Pump	Sajjad Qureshi (Tehsildar City) 0324-5555846
2	Babu Sabu	150 houses		
3	Shera Kot	Nil		
4	Badro	100 houses		
5	Nonarian	200 houses		
6	Chambro Pur	Nil		

List of Areas/Villages at Risk in MEDIUM Flood (1 Lac Cusecs)

Sr. No.	AREAS/VILLAGES AT RISK	POPULATION LIKELY TO BE AFFECTED (Approx.)	DESIGNATED CAMP SITE	CAMP INCHARGE (Designation)
TEHSIL RAIWIND / ALLAMA IQBAL ZONE, LAHORE				
1	Chung (Pangarain)	15000 persons	Chung Boys High School	Zulifqar Ali Hanja (0331-4690412) Naib Tehsildar
2.	Mohlanwal	8000 persons		
3.	Maraca	2000 persons		
4	Khud Pur	10000 persons	Loharanwala Khoo Multan Road	Rana Shahid (0321-4030928) Naib Tehsildar
5	Sundar	5000 persons		
6	Shamkey Bhattian	7000 persons		
7	Rangeel Pur	8000 persons	Primary School Rangeel Pur (Khanekey Jhugian)	M Azhar Iqbal (0300-4447141) Naib Tehsildar
8	Bath	4000 persons		
9	Manga Hathar	5000 persons		

CONVENTIONAL SENSITIVE POINTS IN THE DISTRICT.

Sr. No.	Sensitive Points	Safer Places	Camping Ground	Emergency Center
1.	Farrukh Abad, Begum Kot, Jia Musa, Fateh Puri, Targarh	Ravi Bridge	Near Ravi Bridge	Office of Ravi Zone Badami Bagh
2.	Shahdara, Kot Muhiboo, Kot Muhammad Hussain, Barkat Town	Shahdara Gate. 9	Near Shahdara More	-do-
3.	Bhaman, Khokhar, Bela Basti Ram, Har Narainpura	Khokhar Bund	Khokhar	Office of Shalimar Zone
4.	Sanda Kalan, Ganja Kalan, Babu Sabu, Bund Shera Kot, Bhadru, Nonarian, Chamroopur, Jhuggian Nagra	Petrol Pump	Babu Sabu	Office of Data Gunj Bukhsh Zone
5.	Govt. High School for Boys, Niaz Baig, Shadesal, Muridwal, Gopy Rai, Shahpur, Khan Pur, Katar Bund, Bola Garhi	Thokhar Niaz Baig	Thokhar Niaz Baig	Office of Allama Iqbal Zone
6.	Chung, Mohlanwal, Khudpur, Rangilpur, Sundar, Bath, Lodhre, Jhugian Lodhre	Sundar Adda	Sundar Adda	Manga
7.	Govt. High School for Boys, Manga (Outhar & Hatharr), Tarrah	Manga School	Manga School	-do-
8.	Eicho Gil, Malik Pur, Kharrakhi, Bhini Dhelwan, Awan Dhailwala, Jandiala, Arazi Talwara, Talwara-War, Lakho Dher	Village Lakhodehr	Lahodehr	Office of Shalimar Zone
9.	Mehmood Booti, Kot Khawaja Saeed, Baghbanpura, Ghugian Jodha, Karol, Aino Bhattian, Hardo, Jabbo, Arazi Jangua, Sagian, Wassanpura	Mahmood Booti Bund	Baghanpura	-do-

TIME LAG

River	Site		Distance in (Km)	Time Lag (Hours)
	From	To		
Ravi	Hajipur Gujran	Jassar	94	12
	Jassar	Ravi Syphon	73	18
	Syphon	Shahdara	24	8
				38

FLOOD LIMITS (lac Cusecs)

RIVER	SITE	LOW	MED	HIGH	VERY HIGH	EXCEP HIGH	CAPACITY
RAVI	Jassar	0.5	0.75	1.0	1.5	2.0	
	Ravi Syphon	0.4	0.65	0.90	1.35	1.8	
	Shahdara	0.4	0.65	0.9	1.35	1.8	2.5
	Balloki	0.4	0.65	0.9	1.35	1.8	
	Sidhnai	0.3	0.45	0.6	0.9	1.3	

2. PRE-FLOOD ARRANGEMENTS



DISTRICT FLOOD RELIEF COMMITTEE.

District Flood Relief Committee has been constituted in Lahore comprising of officers as well as prominent citizens and representatives of relevant associations and organizations in the District to coordinate all matters relating to flood/rain. This committee will act as an advisory and monitoring body. It is composed of the following:

1. Deputy Commissioner, Lahore.
2. Additional Deputy Commissioner, Lahore.
3. Chief Executive Officer (Health), Lahore.
4. Chief Executive Officer (Education), Lahore.
5. Deputy Director (Agriculture), Lahore.
6. Senior Superintendent of Police (Operations), Lahore.
7. Chief Traffic Officer, Lahore.
8. Collector (Consolidation), Lahore.
9. Chief Officer, Metropolitan Corporation, Lahore
10. Representative of Army (Eng.4 Corps HQ & 10Div HQ)
11. Managing Director WASA, Lahore.
12. Chief Engineer LDA, Lahore.
13. General Manager, PTCL.
14. Secretary, RTA Lahore.
15. District Food Controller (I & II), Lahore
16. All Executive Engineers of Irrigation, Public Tube Wells.
WAPDA, Building, Highways & Drainage Divisions.
19. Regional Manager, Agriculture Development Bank of Pakistan
20. Civil Defence Officer, Lahore.
21. Divisional Engineer-I, Railways
22. Assistant Director Local Government, Lahore.
23. Assistant Director Live Stock and Dairy Development, Lahore.
24. District Officer (Fare & Freight), General Bus Stand, Badamibagh, Lahore.
25. Secretary District Rowing Association Lahore.

The Committee may co-opt representatives of Traders, NGOs and notable of the areas likely to be affected. A meeting of the advisory committee will be held before the commencement of the flood / rainy season in connection with the completion of all necessary Pre-flood arrangements.

CONTROL ROOM

A Control Room has been established for round the clock service in the District Courts, Lahore Telephone No.042-99210630. Overall working will be monitored by Additional Deputy Commissioner, Lahore, Telephone No. 042-99210614.

WARNING SYSTEM

The main source of information regarding flood will be the irrigation Department and Police Control. Wireless sets will be installed at Ravi Gauge Station and Ravi Syphon and they will convey the discharge at Jassar, which takes about 36 hours in reaching Shahdara, so that precautionary measures can be taken well in time. After 15th June, an emergency warning center will start functioning round the clock at Ravi Gauge Station and a similar warning center will be set up in the office of Additional Deputy Commissioner (Revenue), Revenue Officers and other Coordination Deptts. Warning will be conveyed to residents of the areas likely to be affected through Police network, Revenue Field Staff, Secretaries Union Councils, Volunteers and the Sector Officers. No warning will be issued for low and medium flood. Since there is no warning system installed in the rural areas to inform about rain water coming from Hadiara drain, the Drainage Department, shall give daily discharge position of various nallas and drains during the flood season.

INSPECTION OF BUNDS

A joint inspection of Bunds for flood protection will be carried by the Irrigation Department and Revenue Department which will ensure that all repairs and maintenance work has been completed on 2nd May, 2020.

VACCINE

CEO (Health) will plan and organize emergency centers for first aid and medical care during flood / rain in the area under his jurisdiction. He will undertake preventive vaccination / inoculation prior to monsoon season. He will also ensure that necessary vaccines, medicines, anti-biotic drugs, ORS and anti-snake biting vaccination are available in adequate quantities. One EPI Vaccine Kit will be provided to static center and mobile team each.

SURVEY OF THE WEAK STRUCTURES / BUILDINGS

With the help of municipal authorities, survey of the weak dilapidated houses / buildings has been carried out by MCL marking dangerous buildings in the area which have to be vacated in case of flood / excessive rain emergency. Notices of vacation / repair to this effect have also been pasted.

DEWATERING

List and number of dewatering sets available with MCL and various departments has been given in Contingency Plan.

WATER PURIFICATION

Water purification sets / medicines will be arranged by WASA. In case of floods, strict water discipline will be exercised in the camps.

ANTI-SNAKE BITE MEASURES

During floods more than 30% casualties are accounted to snake bites. Adequate quantity of Anti-verom medicines will be arranged by Health Department. Each static center / mobile team will be provided with atleast 5 Anti-Snake bite injections.

ANTI-DIARRHOEAL MEASURES

During and after floods, contaminated water and poor sanitation cause diarrhea particularly susceptible groups are vulnerable to outbreak. 100 packets of ORS will be provided to each static center / mobile team by Health Department, CDGL. Public awareness on use of ORS will reduce deaths in affected areas.

LIAISON WITH LOCAL ARMY UNITS

Army will be requisitioned in the aid of Civil Administration as and when necessary. Headquarter 4-Crops will depute a Liaison Officer with Additional Collector, Lahore. A police wireless system will be installed in 4-Crops H.Q during the flood season (as practiced during Muharram) by police authorities.

3.

FLOOD FIGHTING STRATEGY

Sub Divisional Officers and their staff would remain present and vigilant in the area round the clock during flood period. The flood information would be communicated by wireless, mobile phone or sent through special messenger employed for this purpose. In case of any emergency, the Sub Divisional Officer concerned would report the matter to the Executive Engineer, Lahore Drainage Division, Superintending Engineer, Lahore Drainage Circle, Chief Engineer, Irrigation Lahore Zone, Director Regulation, Chief Engineer, Drainage & Flood and Secretary Irrigation and Power Department, Punjab Lahore.

There is an approved breaching site located at Shahdara Disty embankment at RD.55+000 to 65+000. The Shahdara Railway Bridge was constructed during the year 1870 having 33 bays out of which 18 have since been closed. The matter regarding Enhancing Capacity of Shahdara Bridge was referred to IRI. After conducting Model Study, the PC-I was prepared under the directions / proposals of Irrigation Research Institute model study report conducted in May 2005, thereafter Federal Flood Commission directed to conduct fresh model study of the project vide minutes of meeting issued by Federal Flood Commission Islamabad. The fresh model study has run and its report is in process. After receiving the report fresh PC-I will be prepared in view of proposals of Irrigation Research Institute Lahore.

With these proposals, the trend of inhabitation inside the bund area has to be controlled with the co-operation of the District Government and the Army.

On receipt of any flood warning, Sub Divisional Officer Flood Bund and Kasur Sub Division will make necessary arrangements. Sub Divisional Officer, Flood Bund and Sub Divisional Officer Kasur alongwith their field staff will camp at spur No.1 at RD.2300 of Shahdara Flood Protection Bund and at Shahpur Kanjran spur respectively. Duty roster and detail of camps along Mahmood Booti Bund, Lahore Protection Bund, Shahdara Flood Protection Bund, Shahpur Kanjran, Chung Spur, and Sharakpur Flood Protection Bund is available in Chapter-9

In case of High Flood, necessary arrangements for evacuation of affected people will be carried out by the Civil and Military authorities and the Engineering staff will remain busy in watching and protecting of the Flood Protection Works. The Lahore Division CBDC, Lahore will act as backup division once emergency is declared. All other Departments will have their own arrangements to provide help to the needy persons.

PRE-FLOOD WATCHING ARRANGEMENT
Irrigation Department

1. Camping sites along the flood bunds at critical points will be declared and camps will be established over there.
2. Required flood fighting / watching material will be procured.
3. Procurement of stone to maintain the minimum limit of reserve stock will be ensured.
4. Information regarding earth moving machinery available in the local market will be gathered.
5. Site visits along with field formation to identify the most critical points and to develop consensus for course of action if such points / reaches become dangerous.
6. Arrangements will be made for the installation of base wireless station and mobile wireless sets in Government vehicles.
7. Total length of protection bunds will be divided into different beats and assigned duties of watching of flood protection works through gangs comprising regular and work charge establishment.
8. Special funds application based on estimated amounts of emergent works will be submitted

EVACUATION PLAN

In certain circumstances it may be necessary to move people or property from an area which is endangered or has been affected by the flood.

TYPES OF EVACUATION

There are three type of evacuation:-

- a. PRE-IMPACT: moving people as a safety measure. This is only possible when warning is conveyed in time. Studies show that if risk has been properly assessed, contingency plans prepared, and people are warned effectively, then they can be moved in an orderly fashion. Assuming people will act irrationally is wrong.
- b. POST IMPACT: when there has been no warning and people are moved during the impact or as part of rescue.
- c. COMBINATION: when pre-impact evacuation is not completed before the disaster strikes.

PHASES OF EVACUATION

The phases of evacuation are:-

- a. Warning (though, some times there may not be one).
- b. Order to move.
- c. Movement.
- d. Shelter.
- e. Return.

KEY ELEMENTS OF EVACUATION PLAN

The key elements of an evacuation plan are:-

- a. Legal authority.
- b. Risks.
- c. Warning measures.
- d. Routes.

- e. Safe areas.
- f. Administrative arrangements.
- g. Control.
- h. Communications.
- i. Outline plan for return.

EVACUATION ORDER

An evacuation order should provide answer to following questions:-

- a. Why is there a need for the evacuation?
- b. When to go?
- c. How to go?
- d. Where to go?
- e. For how long?
- f. What are the administrative arrangements?
- g. What to do for further information?

PEOPLE WHO DO NOT WANT TO MOVE

Planners should consider what to do about people who despite all warnings, refuse to move. Should they be moved forcibly or should they be left to their fate?

DEPARTMENTAL PLANS

CIVIL DEFENCE–LAHORE

FLOOD/MONSOON CONTINGENCY PLAN–2020



CIVIL DEFENCE OFFICE

OUT FALL ROAD, LAHORE

FLOOD/MONSOON-2020 PLAN

OBJECT:

- To assist the District Administration during heavy rain / flood through available resources.
- To provide services of Civil Defence Volunteers for relief work.

SUPERVISION:

Mr. Shahid Pervaiz
Chief Instructor-1

Cell No. (0320-4903197)

FOCAL PERSON:

Mr. Khalid Shahzad
Chief Instructor

Cell No. (0300-4593513)

EMERGENCY CONTROL CENTER NASIR BAGH:

During Flood / Monsoon Season Civil Defence Emergency Control Centre at Nasir Bagh will function round the clock to meet any emergent situation. Civil Defence staff and volunteers will remain high alert in three shifts at Control Centre Nasir Bagh, Lahore: -

Shift	No. of CD Razakar	Shift In-charge	Timing
1 st	30	Mr. Mudasir Liaqat Virk, Instructor G-III, 0333-4979688	08:00 AM to 03:00 PM
2 nd	20	Mr. Asif Nisar Malik Instructor G-II, 0300-4771081	02:00 PM to 10:00 PM
3 rd	10	Mr. Irshad Hussain, Instructor G-III, 0322-4941394	09:00 PM to 08:00 AM

DEPLOYMENT OF CIVIL DEFENCE RAZAKARS:

Civil Defence Razakars will be deployed for Rescue and relief work during heavy Rain / Flood. The duty plan for provision of Razakars from Eleven (11) Civil Defence Divisions is as under: -

S#	Name Of Town	Name Of CD Division	No. Of Razakars	Focal Person / Divisional In-charge
1.	RAVI	• City	40	Waseem Yasin, D.W, 0322-7777522
		• Shahdara	30	Mian Khalil-ur-Rahman, D.W, 0300-9475065
		• Badami Bagh	30	Mr. Ijaz Ahmad, D.W, 0300-4307570
2.	DATA GUNJ BUKSH	• Data Gunj Bakhsh	30	Mr. M. Ramzan Khan D.W, 0322-4311092
		• Civil Lines	20	Ahmad Murtaza Bhatti D.W Civil Lines. 0300-4478763
3.	ALLAMA IQBAL	• Samanabad	30	Syed Mashqoor Alam Zaidi Deputy Chief Warden, 0333-4252288
4.	SAMANABAD	• Samanabad	20	Syed Mashqoor Alam Zaidi Deputy Chief Warden, 0333-4252288
5.	GULBERG	• Gulberg	30	Kh. Umar Hassan, D.W, 0333-4446860
6.	NISHTAR	• Model Town	25	Mr. Muhammad Amin, D.W, 0300-4174070
7.	WAHGA TOWN	• Mughalpura	30	Aftab Ahmad Chohan, D.D.W, 0322-4501801
8.	AZIZ BHATTI	• Cantt	30	Mr. Abdul Hafiz Butt, D.W, 0300-4275105
		• Mughalpura	20	Mian Muhammad Ishaq D.D.W, 03008464424
9.	SHALAMAR	• Misri Shah	30	Mr. Naseer Ahmad, D.W, 0300-4498335
Total			365	

- All Divisional Offices of Civil Defence Organization, Lahore will remain open for mobilization and training of Civil Defence Razakars during flood / heavy rains.
- Instructor In-charge of Divisions will prepared duty roster of Civil Defence Razakars and visit their respective Divisional Offices daily at evening and furnish daily progress report to Civil Defence Office, Lahore next day.
- All Divisional Warden will prepared and submit list of Razakars for flood and heavy rain duty till 15th, May-2019.

DETAIL OF RESOURCES AVAILABLE WITH CIVIL DEFENCE LAHORE: -

• **Transport:**

Coaster for transportation of Razakars.	01	
Mazda Truck	01	
Toyota Hilux pick up		02

• **Equipment:**

Shovel		100
Kassi		50
Chargeable Lights		05
Pick Axe		04
Iron pane		100
Stretcher		10
Mega Phones		04
Rain Coats		50
Gum Boots		25
Fire Buckets		100

GENERAL INSTRUCTIONS: -

- The Divisional Wardens and Instructors In-charge of Divisions will ensure provision of Civil Defence Razakars as per detail given in plan.
- All Divisional Offices of Civil Defence organization Lahore will remain open for training and mobilization of Civil Defence Razakars during Flood / Rainy season.
- All Chief Instructors and Instructor In-charge of Divisions will coordinate with respective Divisional Wardens for training of Civil Defence Razakars and also furnish Daily Progress Report to District Office Civil Defence Lahore next day.

Rescue – Cum – Debris Clearance Squad:

All Zonal Offices of Metropolitan Corporation, Lahore will be responsible to prepare organize Rescue - cum –Debris Clearance scheme of their respective Town to deal with the situations arising due to collapse of building as a result of heavy rain, flood, weak structure etc. In order to complement these efforts, thirty (30) Civil Defence Razakars per squad shall be provided by the Civil Defence Office, Lahore.

Preparation for De - Watering Scheme for low lying areas:

a). As per instructions, / WASA and all Zonal Offices of Metropolitan Corporation, Lahore are responsible for the preparation of “De-Watering Schemes”. It is therefore necessary to ensure that they procure required number of De-Watering pumps, arrange training of personnel in pump operation well before the start of rainy season.

b). Metropolitan Corporation Lahore should carry out survey of low – lying areas in time, so that they are in a position to implement the scheme efficiently. All De-watering pumps held by the Zonal Offices of Metropolitan Corporation, Lahore, WASA must be put in working order before 30-05-2019. These pumps will be inspected by the undersigned and report will be furnished to high ups as well.

Leave during Flood season:

Leave will not be granted to the officials **during Flood Season** except on extreme compassionate / medical ground.

All the Instructors have been directed to prepare list of suitable Civil Defence Razakars (containing their phone numbers/address) for Flood / Rainy season duty from their respective Divisions and furnish the same to the office on 30-5-2020 positively.

Razakars will be deployed as per direction of Worthy Deputy Commissioner Officer/Controller Civil Defence Lahore when required.

METROPOLITAN CORPORATION, LAHORE
FLOOD CONTINGENCY PLAN -2020



ACHIEVEMENT STATEMENT

- The priority of the Metropolitan Corporation in this Monsoon Season is to provide the most suitable services to every citizen at doorstep living in the territorial jurisdiction of MCL.
- The next most important desire to achieve the goals with high professional standards. To work hard and meet all challenges any exigency during this Monsoon Season for the 2020.

CRUX

- Total No. of Zones : 09
- Sore Points : 27
- Choking Points : 22
- Duty Roster at zonal level : 09
- Contact No. of Officers of MCL

DETAIL OF DEFUNCT ZONES OF MCL

- Allama Iqbal zone
- Aziz Bhatti zone
- Data Gunj Bakhsh Zone
- Gulberg zone
- Nishter zone
- Ravi zone
- Samanabad zone
- Shalamar zone
- Wahga zone

DETAIL OF CAMPS WITH FOCAL PERSONS

Sr. #	Flood Relief Camps	Name of Focal Person	Zone	Contact No.
1.	2-C-I, Tipu Chowk Township, Lahore	Mr. Syed Saqlain Abbas Shah (Road Inspector)	Nisther zone	0307-3333833
2.	12-Rasool Park Shama Road Lahore	Mr.Muhammad Adeel S.E	Samanabad zone	0333-4795242
3.	Jallo More Office Near BRB Canal Zonal Relief Camp # 1	Mr. Qaisar Farooq (S.E)	Wahga Zone	0333-4161436
4.	Zonal Office Shalimar Zone and WASA Camps round the Clock	Mr. Rohail Bajwa (S.E)	Shalamar Zone	0300-6444201
5.	Office of Aziz Bhatti Zone	Mr. Kashif Butt, MO (Infra-II)	Aziz Bhatti Zone	0322-9777600
6.	Rain Emergency Complaint Cell at O/o Metropolitan Corporation, Gulberg Zone Lahore	Mr. Asmat Ullah (Sub Engineer)	Gulberg Zone	0300-9432312
7.	Zonal Office Data Gunj Bukhsh Zone	Mr. Naeem Warriach, MO(Infra-II)	DGB zone	0300-4178055
8.	1. Fire brigade Office G.T Road Shahdara 2. Disposal Station outside Bhati Gate 3. Outside Sheranwala Gate	Mr. Jameel ur Rehman (S.E)	Ravi Zone	0300-4292540
9.	1. Zonal Office Iqbal Zone 2. Thokat Niaz Baig	Mr. Mazhar Abbas (S.E)	A.I Zone	0323-4321369

DETAIL OF SORE POINTS

1. Ghaziabad Graveyard Camp and Nizamabad
2. Khawaja Ahamd Hassan Road
3. Zarrar shaheed road Infront of Gourmet Baker
4. Ibrahim Colony
5. B-Block, Tajpura
6. Rahat Bakes Infantry Road
7. Bibi pakdaman
8. Garhi Shahu Chowk
9. Basti Syden Shah
10. Kalma chowk Ferozpur road
11. Barkat Market Garden Town
12. SOS Village Ferozpur Road
13. Pindi Rajootan
14. Kot Lakhpat Phatak
15. Dera Tariq Kamboh, Katcha Jail road
16. C.O Unit Office Kahna Nau
17. Adda Plot Raiwinind Road
18. Bhatti Gate
19. Sheranwala Gate
20. Timber Market
21. Shahdara More
22. Aik Moria Pull
23. Do Moria Pull
24. Chowk Na Khuda
25. Chowk Shawala
26. Sultan Mehmood Road near Thandi Khoi
27. Darbar Neem Peer Chowk

CHOKING POINTS

- 1) Shahdra Chowk & Underpass
- 2) Kot Shahab Din Office
- 3) Timber Market
- 4) Moulana Ahmad Ali Road
- 5) Fire Station Office Lakar Mandi
- 6) General Bus Stand Badami Bagh
- 7) Data Nagar, Main Bazaar
- 8) Drain Road
- 9) Niazi Chowk
- 10) Aziz Road Near Govt. Girls School Misri Shah
- 11) Akbari Mandi Circular Road
- 12) Ak Moria Bridge Chowk Circular Road
- 13) Kashmiri Gate Circular Road
- 14) In front of Metro Main Ravi Road
- 15) Shah Alam Chowk
- 16) Bhatti Chowk
- 17) Ali Park Fort Road
- 18) Islamia High School
- 19) Masti Gate Circular Road
- 20) Habib Gunj
- 21) Usman Gunj
- 22) Farooq Gunj, Street No. 2

DETAIL OF MACHINERY

Sr. No	Item	Qty
1.	Dewatering sets	126 Nos.
2.	Sucker Machine	02 No.
3.	Disposal Station (With Generator)	03 No.
4.	Jet Machines	02 No.
5.	Mazda T-3500	09 No.
6.	Bed Ford Dumper	8 No.
7.	Hyundai Pickup	9 No.

HUMAN RESOURCE & THEIR TRAINING

- During the Moon Soon season WASA and LWMC will engage additional human resource on Work Charge basis while MCL will spare the staff from the existing strength.
- WASA DMD operations will impart training to the field formation of WASA/MCL/LWMC/Health Staff to combat jointly in Rain Emergency.
- The training of MCL Staff was held on 05.05.2020.
- During heavy Rain/ Stagnant of Water, Manhole Covers will be lifted by WASA Staff where necessary and will keep on watching till the placing of cover. He will also place warning indications for General Public.
- Staff will be in uniform i.e. WASA, MCL. LWMC.

DUTY ROSTER AT ZONAL LEVEL

AZIZ BHATTI ZONE

- Mr. Kashif Butt, MO(Infra-II), 0322-9777600 Focal Person
- Mr. Abdul Wahab (S.E), 0305-8471786 Field Officer

1st Shift
08:00Am to 3:00 Pm

2nd shift
3:00pm to 10:00 Pm

3rd Shift
10:00 pm to 08:00 Am

Mr.Shahid Raza 0323-6489999, H.C	Mr. Ishtiaq Ali, J.C 0300-4146229	Abdul SattarJ.C, Mate
Ashfaq , Mate	Ramzan Shakir, M.R	Salman Anwar , DWO
Akram , Mate	Usman Qasim , DWO	Ghulam Muhammad, Baildar
Mian Hamid, DWO	Azam, Baildar	Mumtaz Hussain ,Baildar
Younus , baildar	Maqbool Hussain , Baildar	Qamar Abbas, Baildar
Maratab Hussain, GM	Shabeer Hussain , GM	Muhammad Naveed, NQ
Bashir , Baildar	Khuram Shahzad , NQ	Adil Riaz , Baildar
Rana M. Amjad, Elect.	Abdul Saeed, Electrician	Irfan Ahmad, Elect.
Fazal Kareem, helper	Asghar Ali , Helper	Malik Ghulam Abbas Electrician
M. Iqbal, Baildar		
Ashfaq , Mate		

ALLAMA IQBAL ZONE

- Mr. Mazhar Abbas, S.E, 0323-4321369

Focal Person

1st Shift
08:00Am to 3:00 Pm

2nd shift
3:00pm to 10:00 Pm

3rd Shift
10:00 pm to 08:00 Am

Rana Farooq Ahmed, Road Inspector 0333-4828676	Mr. Shahzad Sabir, S.E 0300-8417843	Tasleem Rafiq, Road Inspector 0305-9120654
Asad Ali, Electrician 0321-4360571	Imtiaz Ali, Electrician 0300-4115491	Faraz Butt, Electrician
Nadeem Younus, Electrician	Mian Ishtiaq, Electrician 0323-4645778	Muhammad Munir , Electrician 0315-4135250
Hassan Ijaz, Electrician 0324-5089893	Nadeem Ahmed, Electrician 0323-6420112	Allah Jowia, N.Q 0300-4311206
Adeel Butt, Electrician	Rana Tariq, Helper	Ahmed Subhani, Helper
Arshad Riaz, Electrician 03454348122	M. Nasim, Helper	M. Tanvir, Driver
Allah Ditta, Electrician 0322-4145318	M. Imtiaz, Helper	Akbar Ali, Helper
Muhammad Jamil, Electrician 0305-4294049	Muhammad Asif, Helper 0333-4311192	
Shaukat Ali, Driver 0322-9360474	M. Shahzad, Driver 0346-4345319	

DATA GUNJ BAKHSH ZONE

Mr. Naeem Warraich, MO (Infra-I), 0300-4178055
Mr. Malik Ijaz, AMO (I), 0300-6999549
Mr. Abid Ali, S.E, 0320-8418438

Focal Person

1st Shift
08:00Am to 3:00 Pm

2nd shift
3:00pm to 10:00 Pm

3rd Shift
10:00 pm to 08:00 Am

Mr. Aslam Khushi, 0300-4669875	Mr. Aslam Rasheed, 0345-4270311	Mr. Amir Rehman, 0321-2386026
Mr. Muzaffar Zia, 0333-4551482	Mr. Mousa Kaleem, 0323-4653617	Mr. Shafqat, 0323-4422303
Mr. M. Waseem, 0323-7511859	Mr. M. Yaseen, 0324-4574264	Mr. Khurram Aslam, 0321-4501877
Mr. Hafiz Muhammad Hanif, 0322-9452803	Mr. Mian Rauf	Mr. Asghar Ali, 0322-4796934
Mr. Abdul Waheed, 0322-4257234	Mr. Razzaq, 0332-4522658	
Mr. Hafiz Naeem, 0322-8414035	Mr. Shehzad Asghar, 0321-4981002	

GULBERG ZONE

Mr. Asmat Ullah, S.E, 0300-9432312

Usman Maqsood, Sub Engineer, 0346-4167909

FATEH MUHAMMAD, Assistant Superintendent, 0343-4032706

Ijaz ur Rehman, 0323-4015125, Draftsman

1st Shift 08:00Am to 3:00 Pm	2nd shift 3:00pm to 10:00 Pm	3rd Shift 10:00 pm to 08:00 Am
Asmat Ullah, Sub Engineer Shift Incharge 0300-9432312	Rana Safdar, Road Inspector Shift Incharge 0321-4664020	
Umer Shahzad Khan 0300-8004248	Ehsaan-ul-Haq 0303-4255922	Pervaiz Ali 0300-9437474
Nadeem Mirza Driver 0307-4290088	Shakeel Bahadar Driver 0334-4479114	
Shahzad Aslam, Mechanic Dewatering Set 0300-4314883	Haider, Operator Filtration Plant Junaid-ul-Hassan, Operator Filtration Plant Shakeel Ahmed, Operator Filtration Plant	
Babar Nawaz Gangman	Saifullah Gangman	
Ali Asghar Gangman	Awais Saleem Helper	
Asim Raza Gangman	Yasir Mehmood Helper	
Mian Muzaffar Iqbal, Draftsman, Shift Incharge 0300-4061987	Shahzad Anwar, Tax Collector Shift Incharge 0300-4979469	
Shahzad Anwar Tax Collector Shift Incharge	Shahid Mehmood Abbasi Tax Collector Shift Incharge	
Nisar Sarwar Meter Reader Shift Incharge Cell # 0323-8338167	Ahsan Aslam Tax Collector Shift Incharge Cell # 0312-4533435	

NISHTAR ZONE

Mr. Abdul Qayum Khan, MO (Infra-I), 0333-4202102,
Mr. Kaleem Ullah Khan, SDO, 0333-4543702
Incharge

Focal Person
Field Officer/ Overall

1st Shift
08:00Am to 3:00 Pm

2nd shift
**3:00pm to 10:00
Pm**

3rd Shift
10:00 pm to 08:00 Am

Mr. Syed Saqlain Abbas Shah, Road Inspector (0307-3333833) Shift Incharge		Shahid Hameed, Sub Engineer (0300-8042803)Shift Incharge
Abdul Hameed, Mate	Rizwan Shah, Baildar	Syed Manzoor Abbas, Mate
Zaigham Akram, Mate	Faizan Aslam, Baildar	Amir Wazir, Baildar
Yousaf Masih, Baildar	Saif Ullah, Baildar	Yasir Shahbaz, Baildar
Muhammad Rafique (Goonga), Baildar	Shahbaz Ahmad, DSM	Khalid Mahmood, Baildar
Hamid Hasan, Baildar	Adnan Mehar, Naib Qasid	Saimon Gill, Baildar
Shahbaz Dogar, Baildar	Muhammad Ashfaq, Driver	Rana Zahid, Baildar
Amanat Ali, Baildar	Arif Javed, Electrician	Zubair Iqbal, DSO
Rameez Mansha, Baildar	Aleem ud Din, Electrcian	

RAVI ZONE

Mr. Safdar Ullah Warriac, MO (Infra-I), 0322-6400540

Focal Person

1st Shift 08:00Am to 3:00 Pm	2nd shift 3:00pm to 10:00 Pm	3rd Shift 10:00 pm to 08:00 Am
Mr. Waqas Afzal, S.E 0323-4775722	Mr. Sarwar, S.E 0332-4752527	Mr. Jameel ur Rehman, S.E 0300-4292540
M Arif, Road Inspector	Muhammad Arshad Helper	Ghulam Murtaza Helper
Atta Ullah, Junior Clerk	Hafiz Afzal Road Inspector	Muhammad Ali, Mason
M. Asif Hanif, Naib Qasid	Muhammad Asif Mason	Muhammad Hussain, Cleaner
Mirza Muhammad Zohaib, Helper	Muhammad Khalid Naib Qasid	Maqbool, Helper
Umar Ali Butt, Gangman	Zafar Hussain, Junior Clerk	Muhammad Azeem, Elec.
Muzammil Ahmad, Junior Clerk	Ghulam Mustafa, Elec.	Naeem Ullah, Helper
Manzar Bashir, Elec.	Mustansar Ishaq, Helper	Muhammad Sabir, Helper
Haji Ishtiaq, Elec.	Zaheer ud Din, Helper	Muhammad Sarwar, Mate
Allah Rakha, Helper	Sajjad Hussain Shah, Junior Clerk	Hafiz M Afzal, Road Inspector
Shafique, Helper	Sheraz Khan, Electrician	Nadir Khan, Electrician
Muhammad Saeed, Tax Collector	Zahid Hussain, Tracer	Akram, Mali
Ghulam Rasool, Driver	Muhammad Waheed, Driver	
Azad Khan, Naib Darogha		
Muhammad Shahbaz, Naib Qasid		
Alamgir Subhani, Naib Darogha		

SAMANABAD ZONE

Mr. Nadeem Abbas Bajwa, Metropolitan Officer-II (Infra), Cell : 0322-9487444 Focal Person

1st Shift
08:00Am to 3:00 Pm

2nd shift
3:00pm to 10:00 Pm

3rd Shift
10:00 pm to 08:00 Am

Adeel Shahzad (Sub-Engineer) Shift Incharge 0313-4077142	Jhanzaib Amjad (Sub-Engineer) Shift Incharge 0332-4921137	Zohaib Fayyaz (Sub-Engineer) Shift Incharge 0314-4088640
Kashif Qayoom – RGM Cell: 0300-4220557	Farooq Butt - Mate Cell: 0310-0048221	Muhammad Yahya Electrician
Haider Ali Mughal (Driver) 0332-8490478	Mohsin Zaman (Driver) 0321-4379022	Asghar Khan (Driver) 0300-8840575
Abdul Manan, Electrician	Azad Shahid - Electrician	Muhammad Ashraf Electrician
Imran Ahmad Electrician	Muhammad Ashfaq - Electrician	Asim Dar - Electrician
Amir Saeed - Helper	Babar Hussain – Electrician	Abdul Basit Bhatti, Helper
Muhammad Shakeel RGM	Kashif Mushtaq - RGM	Raja Bilal - Helper
Ali Raza - RGM	Shahid Pervaiz – Electrician	Javed Mughal–Electrician
Riasat Ali - RGM	Javed Kala - Electrician	Noman Shoukat – RGM
Tahir Ashraf - RGM	Zaman Khan - RGM	Quraban Ali - RGM
Nasir Khan - RGM	Wahid Bashir - Sanitary Worker	Shahid Majeed – RGM
Ali Waseem - RGM	Awais Yaqoob – Helper	
	Rizwan Khalid - RGM	

SHALAMAR ZONE

Incharge:

Rohail Bajwa, AZO (Infra), 0300-6444201

1st Shift 08:00Am to 3:00 Pm	2nd shift 3:00pm to 10:00 Pm	3rd Shift 10:00 pm to 08:00 Am
Raza Ahmed Siddiqui, Incharge Street Light Shift Incharge 0322-4334381	Ayaz Ahmed, Light Checker, 03236603348 Shift Incharge	Khalid Siddiqui, R.I 0311 4440447 Shift Incharge
Muhammad Imran, Electrician	Raza Hussain, Electrician	Hamid Mehmood, Electrician 0321 4972724
Farooq Ahmed, Electrician	Fayaz Bijli, Elect. 0324 4138764	Imtiaz Ali, Elect. 0322 4071550
Javed Iqbal, Elect. 0300 8052075	Muhammad Kashif, Electrician	Fayaz Ahmed, Helper
Shahbaz Sadiq, Elect. 0315 4123695	Faiz Muhammad, Electrician	Muhammad Shabir, Helper 0323 8835228
MuhammadAbbas,Elect. 0300 8033142	Kamran Sabir Helper	Allah Bachaya, Naib Qasid. 0345 4435073
Zaheer ud Din, Helper 0300 8166136	Zahid Parvez, Electrician 03214275090	Abdul Jabbar, Electrician 0322-8013754
Muhammad Asif, Helper	Shahbaz ul Hassan Helper	Qadeer Hussain, Helper
Ghulam Mustafa, Electrician 03009491978	Naseeb Khan, Electrician	Faizan Akram, Electrician 03218881602
Muhammad Sultan, Helper 0322 4479034	Muhammad Shakil, Helper 0322 4023909	Kashif Shah, Helper
Muhammad Nadeem, Elect. 0300 4033956	Saad Khalid, Electrician 0321-4586050	Hafiz Zia, Electrician 0300-4550351
Imran Khan, Helper	Sabir Aslam, Helper	Asif Ashraf , Helper
Farooq Akram, Elect. 0346 4102703		
Arslan Ahmed, Helper 0300 4194264		

WAHGA ZONE

JALLO MORE OFFICE NEAR BRB CANAL

Shifts Incharge: Mr. Abdul Wahab, S.E
DAROGHAWALA CHOWK G.T. ROAD LAHORE

0305-8471786

Shifts Incharge: Mr. Shahzada Hassan (Surveyor)

0321-4855779

1st Shift
08:00Am to 3:00 Pm

2nd shift
3:00pm to 10:00 Pm

3rd Shift
10:00 pm to 08:00 Am

<p><i>Shift Incharge:</i> <i>Mohammad Israr Fareed</i> <i>(Electrical)</i> 1. <i>Shehzad Noor</i> 2. <i>M. Faheem</i> 3. <i>Zeeshan Ali</i> 4. <i>M. Shahid</i> 5. <i>Dildar Hussain</i> 2nd Shift Incharge Manzoor Hussain (Baildar) Ph. # 0322-4678893 1. Majeed (Baildar) 2. Naseer (Baildar)</p>	<p><i>Shift Incharge:</i> <i>Mohammad Asghar (Electrician)</i> 1. <i>Muhammad Afzal</i> 2. <i>M. Ashfaq</i> 3. <i>Manzoor Hussain</i> 4. <i>M. Anees</i> 5. <i>Sardar Ali</i> 2nd Shift Incharge Muhammad Khalid (Baildar) Ph. # 0322-8060363 1. Shabbir M 2. Khizar (Baildar)</p>	<p><i>Shift Incharge:</i> <i>Muhammad Boota (Mate)</i> 1. <i>Abdul Waheed</i> 2. <i>Faisal Mushtaq</i> 3. <i>Abdul Ghufar</i> 4. <i>Gulzar Ahmed</i> 5. <i>M. Ikram (Driver)</i> 2nd Shift Incharge Danish ALi Ph. #0307-5696080 1. Imran Dogar 2. Abdul Majeed</p>
<p><i>Shift Incharge</i> <i>Tahir Yaqoob</i> <i>(Electrician)</i> 1. <i>Haseeb Hassan</i> 2. <i>M. Faheem</i> 3. <i>Ishtiaq Ahmed</i> 4. <i>Sarwer Shah</i> 5. <i>M. Ayoub</i></p>	<p><i>Shift Incharge</i> <i>M. Shafique (Electrician)</i> 1. <i>Muhammad Faryad</i> 2. <i>M. Ayoub</i> 3. <i>Ghulam Abbas</i> 4. <i>M. Afzal</i> 5. <i>Muhammad Bilal</i></p>	<p><i>Shift Incharge</i> <i>Imran Shoukat</i> <i>(Electrician)</i> 1. <i>Imran Hussain</i> 2. <i>Gulzar</i> 3. <i>Mohsin</i> 4. <i>M. Boota</i> 5. <i>Jamshed</i></p>

LIST OF CONTACT NO OF OFFICERS OF MCL

Sr. No.	Name of Officer	Designation	Contact No.
1	Mr. Ali Abbas Bukhari	Chief Corporation Officer	0300-9483189/ 042-99211258
2	Mr. Muhammad Anwar Javed	MO(Infra)	0300-8691182 042-99211277
3	Mr. Qayum Khan Niazi	MO(Infra-I)	0333-4202102
4	Mr. Safdar Warraich	MO(Infra-I)	0306-6540775
5	Mr. Naeem Warriach	MO(Infra-I)	0300-4178055
6	Mr. Nadeem Abbas Bajwa	MO(Infra-II)	0322-9487444
7	Mr. Kashif Butt	MO(Infra-II)	0322-9777600
8	Mr. Irfan Qureshi	MO(Infra-II)	0306-4563157
9	Mr. Arif Khalil	Director Works Shop, MCL	0321-5973914

WATER AND SANITATION AGENCY (LDA)



WASA
LAHORE

CONTINGENCY PLAN

FOR
FLOOD ARRANGEMENTS
FLOOD SEASON-2020

OPERATION AND MAINTENANCE WING

March, 2020

CONTINGENCY PLAN FOR FLOOD EMERGENCY AND MONSOON 2020

1. **GENERAL**

Lahore, the metropolis of Punjab, ever since it has overgrown the walled perimeter, has been threatened by river over its banks during floods or heavy inundation caused by rains of high intensity during monsoon season.

The problems get compounded when the two events i.e. river flood and high intensity rain fall coincide. A protective earthen embankment has been constructed around the city bordering the river bank from Daroghawala to Thokar Niaz Baig, which keeps the river flood at bay. The drainage of rain water in turn becomes difficult when the drainage gated structures are closed during high floods in the river.

Due to rapid growth of population, unplanned urbanization took place in the low-lying areas, some of which are even lower than the normal River level. Therefore, drainage of the rain water from such areas by gravity is, most of the time not feasible, especially when the drainage problem is aggravated during monsoon due to further increase in the river levels.

2. **LAHORE DRAINAGE SYSTEM**

The topography of the existing city of Lahore divides it into the following major drainage districts.

- a) SHAHDARA
- b) LOWER CHHOTA RAVI
- c) UPPER CHHOTA RAVI
- d) CANTT/CENTRAL LAHORE.
- e) CANTT /SOUTH WESTERN LAHORE.
- f) SATTU KATLA/SOUTH EASTERN LAHORE.

2.1 **PRIMARY DRAINS**

The following primary drains are the major carriers for storm water which flow under gravity to the River Ravi except in case of flood conditions when pumping at drainage stations is required:

- i) Shahdara Drain
- ii) Lower Chhota Ravi Drain
- iii) Upper Chhota Ravi Drain

- iv) Shalimar Escape Channel
- v) Cantt. Drain.
- vi) Sattu Katla Drain.

2.2 **AREA DRAINS**

The main area drains in the above mentioned drainage districts are as under:-

a) **SHAHDARA**

1. Farkhabad Drain

b) **LOWER CHHOTA RAVI**

2. Circular road & Landa Bazar Drain.
3. Ravi Link Road Drain.
4. City Drain.

c) **UPPER CHHOTTA RAVI**

5. Rajput Road Drain.
6. Amir Road Drain.
7. Chah Miran Drain.
8. Makhan Pura Drain.
9. Railway Drain.
10. Saddiq pura Drain.

d) **CANTT: DRAIN**

11. Central Drain.
12. Maclagan Road, Lytton Road & Nabha Road Drain.
13. Islampura Rajgarh Drain.
14. Chauburji Drain.
15. Garhi Shahu Drain
16. Birdwood Road Drain.
17. Lawrence Road Drain.
18. Gulberg-I Drain.
19. Gulberg-II Drain.
20. Basti Saidan Shah Drain.
21. Upper Mall Drain.
22. Fazalia Colony Drain.
23. Dholanwal Drain.
24. Al-Faisal Town Behar Shah Road Drain.

e) **SATTU KATLA / SOUTH EASTERN LAHORE**

25. General Hospital Drain.
26. Garden Town Drain.
27. Faisal Town Drain.
28. Macca Colony Drain.

2.3 **STORM WATER DRAINS & MAJOR DRAINAGE PUMPING STATION**

The following drainage stations established at the primary drains are operated when there is flood in River Ravi.

<u>LOCATION OF DRAINAGE STATION</u>	<u>DRAINS</u>
1. Mehmood Booti Drainage Station Ring Road	Shalimar, Escape Channel
2. Siddique pura Drainage Station Ring Road. Drain	Siddique Pura Drain, Railway & Chotta Ravi (Upper) Drain.
3. Chhota Ravi Drainage Station Ring Road.	Chotta Ravi (Lower) Drain
4. Babu Sabu Drainage Station Link Motorway	Cantt Drain

The sewerage system including sewage pumping stations and major drains including drainage pumping stations are maintained and operated by WASA. Desilting/cleaning of the aforementioned drains is carried out under a scheduled program throughout the year by deploying machinery as well as manual labour. One round of de-silting of the drains has been completed. But due to the problem of perpetual dumping of solid waste into drains, the cleaning operation is continuously repeated to keep the drainage system ready for carrying the storm runoff generated by monsoon rains which normally start in the first week of July for monitoring of desilting, carried out by WASA.

The drainage system of Walled City all the intramural drains and road side drains earlier maintained by MCL Lahore. The Solid Waste Management Department is carrying out desilting of these drains and plans to complete the desilting work by 30th June 2020.

WASA has also implemented its plan of desilting of underground sewerage system. Machinery at 13 Major pumping stations and 111 Lift Stations has been brought in a state of readiness. As the operation of disposal station machinery is mostly dependent on electrical power supply, a close liaison with LESCO (WAPDA) will be maintained to ensure uninterrupted power supply to achieve speedy disposal of rain water. Further, to ensure continues disposal of rain water generators, to be operated during load shedding, have already been installed on all major disposal stations.

3.0 DEWATERING OF LOW LYING AREAS

Since the establishment of City District Government, Lahore has been divided into the following Eight (08) Towns:

1. Ravi Town
2. Shalimar Town
3. Aziz Bhatti & Wagha Town

4. Gunj Buksh Town
5. Iqbal Twon
6. Nishtar Town.
7. Gulberg Town.
8. Jubilee Town

Dewatering sets are installed in those low lying areas from where disposal of rain water through the existing sewerage/drainage system is not feasible by gravity. At present WASA having 81 dewatering sets for dewatering operation in all O&M towns of Metropolitan area of Lahore City. All dewatering sets have already been deployed in field.

4.0 COMMUNICATION ARRANGEMENTS DURING RAINY SEASON.

In order to meet the emergent situation during the heavy rains/flood season, WASA will establish one Complaint Monitoring Center located at WASA Head Office and 35 complaint centers at important points in the city which will operate round the clock during rainy season to receive and communicate complaints to field staff for prompt attendance and redressal. (List of complaint centers at **(Annex-I)**). Wireless communication system at channel 15 is available for communication between WASA Head Office and field officers of O&M Directorates to monitor the field activities and provide prompt assistance where needed.

4.1 COMPLAINT/ MONITORING CELL (CMC)

The Complaint Monitoring Cell (CMC) established at the WASA Head Office located at Ch. Zahoor Ellahi Road, will operate round the clock under the supervision of a senior officer, with effect from 1st July 2019 to 30th September 2019. The following telephone numbers are available for contact by public:

- | | | |
|-----------|-----------|---|
| a) | Exchange: | 99268436, 99268442, 99268438, 99268843 & 99268439 |
| b) | Help Line | 042-1334 |
| c) | WhatsApp | 0334-1334470 |

This center will be responsible to receive the complaints and to immediately convey to the concerned centers of sewerage and drainage divisions and sub divisions in the field. Follow up action would be closely monitored by the officer in-charge at this central complaint center. Emergent complaints will be conveyed to the Sub Divisional Complaint Center on telephone as well as through special messenger. Two vehicles will be allocated to CMC along-with drivers for round the clock duty. A list of telephone number of the officers of Operation and Maintenance Directorate along-with wireless call signs is at **(Annex-II)**.

In addition to above, the CMC will keep liaison with Meteorological office and communicate the daily rain forecast to field offices to ensure timely arrangements for storm water disposal.

4.2 PLAN FOR DEWATERING OPERATIONS

Main store of dewatering sets will be maintained at Main out fall where dewatering sets will be kept ready for use wherever required. Adequate number of dewatering sets will also be available at the centers in the field to facilitate quick transportation to the required places. Addresses and phone numbers of dewatering centers are as below:

- | | | |
|----|--|----------------------------|
| 1. | Main Out Fall - Sant Nagar
(Gunj Buksh Town) | Telephone: 37151855 |
| 2. | LMP Block Disposal Station-
Model Town Link Road
(Nishtar Town) | Telephone: 99230443 |
| 3. | XEN Office - Doongi Ground Samanabad
(Iqbal Town) | Telephone: 37595304 |
| 4. | Badami Bagh (Old Water Works). | Telephone: 37727317 |
| 5. | Chowk Nakhuda (Misri Shah) | Telephone: 37280410 |
| 6. | Shalimar Link Road
(Near Daras Barey Mian) | Telephone: 36826876 |
| 7. | Tajpura Disposal Station | Telephone: 36881722 |
| 8. | F- Block Johar Town | Telephone: 35291629 |

Each Dewatering Center will work round the clock to provide the dewatering sets as per requirements. **(Annex-III)**

4.3 PLAN FOR MAINTENANCE OF STORM WATER CHANNELS

In order to look after the drains and to meet the emergency requirements in case of breach of a drain, the following emergency centers equipped with T&P and adequate staff, will be established at the following places w.e.f. 1st July 2020.

- a) Rasool Park Ichhra (Iqbal Town).
- b) Mehmood Booti Drainage Station (Shalimar Town)
- c) Near Sheranwala Gate (Ravi Town).
- d) Near Lakshami Chowk (Gunj Bukhsh Town).
- e) G-Block Disposal Gulberg (Gulberg Town).
- f) Usman Block disposal station (Nishtar Town).
- g) Shoukat Khanam Disposal Station (Jubilee Town).
- h) Upper Mall Office (AW Town)

Locations of these centers have been selected in such a way that in case of emergency the problem on storm water drain could be promptly attended. Each center will have adequate number of sanitation workers/ Baildars in three shifts. These centers will start functioning with effect from 1st July 2020 and will continue upto 15th September 2020.

4.4 PLAN FOR COORDINATION WITH LESCO ON SENSITIVE DISPOSAL STATIONS/LIFT STATIONS WITH NAME OF LESCO GRID & LESCO FEEDER.

In order to have a contact with LESCO, during Monsoon, name of LESCO Grids & Feeders have been mentioned against Sensitive Disposal Stations / Lift Stations. (**Annex-IV**).

LOCATION OF COMPLAINTS CENTERS

S R N O	NAME OF CENTER	INCHARGE CONTACTS #	MAIN SERVICE AREAS
RAVI TOWN			
1	Shahdara	Mr. Robinson, SDO Ph: 37932853 Mobile: 00343-7463960	Shahdara, Shahdara Town, Saeed park, Jia Musa, Malik Park, Barkat Town, Begum Kot etc.
2	Farrakhabad	Mr. Tariq Jameel SDO Ph: 37927597 Mobile: 0334-1334462	Chaman Colony, Gulsha-e-Hayat Park, Lajpat Road, Rehmat Colony, Chata Park, Farrakabad, Mehraj Park, Shoujah Colony.
3	City	Mr. Ghulam Mustafa SDO Ph: 37664420 Mobile: 0322-4423162	Walled city, Rang Mehal, Lohari Gate, Masti Gate, Kashmiri Gate, Azam Cloth Market, Dehli Gate, Yakki Gate, Mochi Gate etc.
4	Misri Shah	Mr. Abdul Rehman SDO Ph: 37280410 Mobile: 0333-4160541	Kachu Pura, Faiz Bagh, Sultan Pura, Park Nagar, Jinnah Park, Chamra Mandi, Swamee Nagar, Shoujah Colony, Kot Khawaja Saeed Bagum Pura, Gujjar Pura Scheme. Elahi Park, Begum Pura.
5	Data Nagar	Mr. Saeed Ahmad Khan, SDO Ph: 37280363 Mobile: 0322-4423163	Data Nagar, Khokhar Road, Faiz Bagh, Usman Gunj, Farooq Gunj etc.
6	Drainage Ravi Town	Mr. Umair Masood Mobile: 0321-8528088	Central Drain, Chotta Ravi, Birdwood Drain, Shahdara Drain, Farrukhabad Drain, Lower Chotta Ravi, City Drain etc.
SHAHLIMAR TOWN			
7	Mughal pura	Syed Sultan Rafique SDO Ph: 36844103 Mobile: 0334-1334409	Sahuwari, Ram Garh(Mujahidabad), Kumhar pura, Ghaziabad, Al-Faisal Town, Salamatpura, Lal pull, Daras barey Mian, Nabi pura shian, Tauheed park, Nishter Town, Backside Pakistan mint etc
8	Baghban pura	Rana Rifaqat SDO Ph: 36826876 Mobile: 0321-4279938	Baghban pura, Bagum pura, Naseerabad, Khizarabad, Farooqabad, Mehmood booti, Haji pura, Singh pura, Bhogiwal, ShalimarTown, G.T. Road etc.

9	Gujjar Pura	Mr. Wajih ur Rehman SDO Ph: 37280363 Mobile: 0336-3923388	China Scheme, Qamar Din Park, Kot Khawaja Saeed, Shamasabad, Begum Pura, Behar Colony, and Hassan Park
10	Shadbagh	Mr. Muhammad Naeem, SDO Ph: 37611084 Mobile: 0334-1334410	Peerawalee, Tajpura Ground, Shad Bagh, Akram Park, Makhan Pura, Wasanpura, Scheme No.2, Bhagat Pura, Fazal Park Kachu Pura, Faiz Bagh, Sultan Pura, Park Nagar, Jinnah Park, Chamra Mandi, Swamee Nagar, Shoujah Colony, Kot Khawaja Saeed, Gujjar Pura Scheme.
11	Drainage Shalimar Town	Mr. Muqaddas Aziz SDOs Ph:0322-4575563	Sattu Katla Drain, Nishtar Colony Sludge Carrier, General Hospital Drain, Behair Colony Drain., Makkah Colony, Nawaz Shrif Drain etc.
AZIZ BHATI & WAHGA TOWN			
12	Fateh Garh	Mr. Imran farooq SDO Ph: 36881722 Mobile: 0300-4141396	Areas of Fateh Garh etc.
13	Mustafabad	Malik Israr Hussain SDO Ph: 36831904 Mobile: 0300-4272606	Habib Colony, Suleman colony, Gulistan colony, Dharampura, Sadar Bazar, Harikey Road etc.
14	Taj Pura	Ch. Amir SDO Ph: 36826876 Mobile: 0334-1334434	Taj Pura Scheme, Tajbagh, Al-Faisal Town, Ghaziabad A, B, C, D Block etc.
15	Shadipura	Mr. Usman Haider Mobile: -0334-1334415	Sultan Mehmood Road, Asif Colony, Green Park, Naseerabad, Bilal Colony, Karol Bazar and Shadipura.
16	Drainage A.B Wagha Town	Mr. Zohaib SDO Ph: 0334-1334475	Cantt. Drain Shalimar Escape Channel, Shadipura Drain, Bhar Shah Drain.

GUNJ BUKSH TOWN			
17	Ravi Road	Mr. Khurram Shahazad SDO Ph:37151563 Mobile: 0337-7800527	Kasur Pura, Karim Park, Timber Market, Bilal Gunj, Mohni Road, General Bus stand, Mali pura Bagh Munshi Ladha etc.
18	Islam Pura	Mr. Fiazan Imtiaz SDO Ph:37244155 Mobile: 0324-4523229	Krishan Nagar, Sanda, Raj Garh, Sant Nagar, Riwarz Garden, Main out fall etc.
19	Gulshan-e-Ravi	Mr. Fiazan Imtiaz SDO Ph: 37460550 Mobile: 0324-4523229	Gulshan-e-Ravi, Nadeem Park, Rehman Park, Sodiwal, Shera Kot, Babu Sabu and Mahajir Abad.
20	Anarkali	Hafiz Saqib Razzaq SDO Ph: 35764146 Mobile: 0322-4228899	Dil Muhammad Road, Gowalmandi, Nisbet Road, Nilla Gumbad, Mcleod Road, Brandreth Road, Adda Crown Bus, New Anarkali, Paisa Akhbar, Akbari Road, Circular Road, Qilla Gujjar Singh, Abbot Road, Davis Road, Mozag Road Park, Hall Road etc.
21	Drainage G. B Town	Syed Mehdi Haasan Shah SDO Ph: 0322-4757112	Siddque Pura Drain, Upper Chotta Ravi, Circular Road Drain, F& V Market, Shalimar Escape Channel, GT Road Drain, Sukh Nher Road, Railway Drain etc.
GULBERG TOWN			
22	Mozang	Mr. Naimat Ullah SDO Ph: 37112223 Mobile: 0322-4423178	Mozang, Temple Road, Saadi park, Waris Road, Fane Road etc.
23	Shimla Hill	Mr. Salman Ahmad SDO Ph:36306653 Mobile: 0322-6535113	Qilla Gujjar singh, Abbot Road, Davis Road, Allama Iqbal Road, Bibi Pak Daman, Muhammad Nagar, Ghari Shahu.
24	Gulberg	Mr. Kashif Rasool SDO Ph: 35877758 Mobile: 0307-5196065	Gulberg, LMP Block, Canal Bank, Gurumangat, Sher Pao pull, Firdous Market Macca Colony etc.
25	Drainage G. Town	Mr. Ahmad Hussnain SDO Ph:0333-4600696	Gulberg Drain I & II Central Drain, Bird Wood Road Drain, Mozang Road Drain Lawrance Road Drain etc.

NISHTAR TOWN			
26	Town Ship	Mr. Ammar Anwar SDO Ph: 99230443 Mobile: 0334-1334422	Town Ship Area, Kot Lakhat, R,Q & S Block Model Town Extt., LDA Flats Model Town Extt: etc.
27	Garden Town	Ch. Rashid SDO Ph:99231544 Mobile: 0300-4856299	Garden Town, Faisal Town, Model Town Extension & Mochi Pura,
28	Green Town	Ali Haider SDO Ph:35152158 Mobile: 0300-4388157	Green Town Area, Township PECO Road College Road, Gowala Colony etc.
29	Industrial Area	Mr. Qamar-ul-Husnain Niaz SDO Ph: 35120408 Mobile: 0321-4687300	Industrial Area of QAT Rakh Chanddra, Chungi Amar Sidhu etc.
30	Kahna	Mr. Areez Irfan SDO Ph:35152158 Mobile: 0322-9537736	Nishtar Colony, attri Saroba, Youhanabad, Delo Khurd, Gujomata and Khana
31	Drainage Nishtar Town	Mr. Areez Irfan SDOs Ph: 0322- 9537736	Garden Town Drain, College Road Drain, Moulana Shoukat Ali Drain, Faisal Town Drain, Johar Town Drain, Bagiram Drain etc, Green Town Drain. Shoukat Khaum Sludge Carrier. Gazan Road Drain etc.

IQBAL TOWN			
32	Ichhra	Mr. Zahid Hussain Ph:37577363 Mobile:0321-4683332	Ichhra, Shah Jamal, Shadman Colony, Clifton Rehman pura, Lazazar colony, Wahdat Colony etc.
33	Iqbal Town	Faisal Sarwar SDO Ph:37800553 Mobile:0300-8021339	Allam Iqbal Town, A.I.T. Multan Road, Bhekewall, Al-Hamad Colony, Clifton Colony.
34	Sabzazar	Mr. Wahaj Niazi SDO Ph.37843866 Mobile: 0333-2640658	Babu sabu, Bund Road, Shah Noor studio, Kharak Village, Said pur & Sabzazar Schemes.
35	Samanabad	Mr. Zeeshan Manzoor SDO Ph:37578971 Mobile: 0334-1334416	Samanabad, Pakki Thatti, Nawan Kot, Jafaria colony, Gulshan-e-Ravi, Sodiwal Quarters etc.
36	Mustafa Town	Hafiz Abdul Ghaffar SDO Ph:37800553 Mobile:0302-8786589	Mustafa Town, Mamdot Block, Ahmad Yar Block, Qayoum Block, Abbas Block.
37	Dholanwal	Mr. Abdul Ghaffar Mobile No.0300-8885001	Dholanwal, Multan Road etc.
38	Drainage Iqbal Town	Mr. Musab Latif SDO Ph: 0323-5245120	Cantt Drain, Gulberg-I & II Drain, Birdwood Drain, Gulshan-e-Ravi Sludge Carrier, Main Road Sabzazar Drain, Khrak Drain, Fazlia Colony Drain. Lawrance Road Drain etc.

JUBILEE TOWN			
39	Jubilee Town	Mr. Shoukat Ali SDO Ph: 0333-4213231	Jubilee Town
40	LDA Avenue-I	Mr. Saad Siddique SDO Ph: 0334-1334468	LDA Avenue-I
41	Johar Town	Mr. Saif Ullah SDO Ph: 0334-1334457	Johar Town, Mustafa Town etc.

WIRELESS COMMUNICATION SYSTEM

LIST OF CALL SIGNS

Sr. No.	Designation	Call Sign	Name
1	Vice Chairman WASA	1	Sheikh Imtiaz
2	Managing Director-WASA	2	Syed Zahid Aziz
3	Deputy Managing Director(O&M)	3	Mr. Aslam Khan Niazi
4	Director(O&M)Gunj Buksh Town	4	Rana Ghulam Mujtaba
5	Director(O&M) Gulberg Town	19	Mr. Sohail Qadir Cheema
6	Director (O&M)Allama Iqbal Town	5	Mr. Abdul Karim
7	Director(O&M)Ravi Town	6	Rana Abdul Manan
8	Director(O&M)Shalimar Town	15	Mr. Faisal Khurram
9	Director(O&M)Aziz Bhatti & Wagha Town	-	Mr. Adeel Ahmed
10	Director(O&M)Nishtar Town	17	Ch. Saddique Gujjar
11	Director(O&M)Jubilee Town	-	Mr. Abdul Latif
12	XEN(O&M-I)GBT	8	Mr. Zeeshan Shoukat
13	XEN(O&M-II)GBT	7	Mr. Sharjeel Hussain
14	XEN(O&M-I)Allama Iqbal Town	11	Mr. ABid Raza Syed
15	XEN(O&M-II)Allama Iqbal Town	14	Hafiz Ghufuran Sadiq
16	XEN(O&M-III)Allama Iqbal Town	18	Mr. ABid Raza Syed
17	XEN(O&M-I)Ravi Town	6	Mr. Amjad Ali
18	XEN(O&M-II)Ravi Town	8	Hafiz Rohail Ashraf
19	XEN(O&M-III)Ravi Town		Hafiz Rohail Ashraf
20	XEN(O&M-I)Shahlimar Town	9	Mr. Faisal Khurram
21	XEN(O&M-II)Shahlimar Town		Mr. Waqas Liaqat
22	XEN(O&M-I)Aziz Bhatti & Wagha Town		Mr. Salman Nisar
23	XEN(O&M-II)Aziz Bhatti & Wagha Town		Mr. Sohail Aslam Sindhu
24	XEN(O&M-I)Nishtar Town	13	Mr. Shamas Ayoub
25	XEN(O&M-II)Nishtar Town		Mr. Shazil Waqar
26	XEN-Transport & Equipment		Mr. Sharjeel Hussain
27	Director (P&E)	16	Mr. Abu Bakkar
28	DMD(Engg)	46	Mr. Muhammad Yousaf
29	SDO-Dewatering Sets	58	Mr. Mujahid Amir
30	SDO-Ravi Road	36	Syed Khurram shehzad
31	SDO-Krishan Nagar	27	Mr. Fiazan Imtiaz
32	SDO-Gulshan-e-Ravi		Mr. Fiazan Imtiaz
33	SDO-Mozang	26	Mr. Niamat Ullah
34	SDO-Anarkali	54	Hafiz Saqib Razzaq
35	SDO-Shimlla Hill	41	Mr. Salman Ahmad
35	SDO-Gulberg	23	Mr. Kashif Rasool

36	SDO-Iqbal Town	29	Mr. M. Faisal Sarwar
37	SDO-Samanabad	28	Mr. Zeeshan Manzoor
38	SDO-Ichhra	25	Mr. Mr. Zahid Hussain
39	SDO-Sabzazar	42	Mr. Wahaj Niazi
40	SDO-Dholanwal		Mr. Abdul Ghaffar
41	SDO-Johar Town	57	Mr. Saif Ullah
42	SDO- Jubilee Town / LDA Avenue-I	-	Mr. Shoukat Ali
43	SDO-Shahdara	38	Mr. Robinson
44	SDO-Farrukhabad	59	Mr. Tariq Jameel
45	SDO-City	37	Mr. Ghulam Mustafa
46	SDO-Data Nagar	35	Mr. Saeed Khan
47	SDO-Shadbagh	60	Mr. Muhammad Naeem
48	SDO-Misri Shah	34	Mr. Abdul Rehman
49	SDO-Gujjar Pura		Mr. Wajih ur Rehman
50	SDO-Mughalpura	40	Syed Sultan Rafique
51	SDO-Baghbanpura	33	Rana Rafaqat
52	SDO-Mustafabad	39	Malik Israr Hussain
53	SDO-Tajpura	56	Ch. Amir
54	SDO-Fateh Garh	62	Mr. Imran Farooq
55	SDO-Industrial Area	31	Mr. Qamar-ul-Husnain Niaz
56	SDO-Green Town	30	Mr. Ali Haider
57	SDO-Kahna		Mr. Areez Irfan
58	SDO-Garden Town	24	Ch. Rashid
59	SDO-Township	32	Mr.Ammar Anwar

LOCATION OF LOW LYING AREAS FOR DEWATERING

Sr. No.	LOCATION	CAUSE OF ACCUMULATION OF WATER	DISPOSAL POINT	NO. OF DEWATERING SETS
	<i>Ravi Town</i>			
1	Bhatti Chowk	Rain surface run off in depression	Adjacent sewer	1
2	Muslim Park, Jia Musa	-do-	Jia Muda Trunk sewer	1
3	Chatta Park	-do-	-do-	1
4	Hamid Park	-do-	-do-	1
5	Qaiser Town	-do-	Abbas Nagar Sewer	1
6	Kot Shahab Din	-do-	Lajpat Road	1
7	Nazim Abad	-do-	-do-	1
8	Chowk Nakhuda	Road depression	Railway drain	2
9	Zafar Ullah Khan Road.	-do-	Akbar Road sewer	1
10	Shamshad Park	Low Lying area		1
11	Haji Park Amer Road.	-do-	Amer Road drain	1
12	Gulistan Town, Bhagat Pura.	-do-	-do-	1
13	Shafi St. Taj Park Amer Road.	-do-	-do-	1
14	Sidique Pura Drain	Low Lying area	Siddiqe pura drain	1
15	Mehboob Road.	-do-	-do-	1
16	Mian Park, Data Nagar	-do-	-do-	1
17	Ahmed Park, Data Nagar	-do-	-do-	1
18	Meraj Pura Khokhar Road.	-do-	Khokhar Road sewer	1
19	Niaz Pura ,Khokhar Road	-do-	-do-	1
	<i>Shalimar Town</i>			
20	Shahid Park,Nadia Ghee Mills	Depression	Adjacent sewer	1
21	Azeem Ground	-do-	-do-	1
22	Kotli Pir Abdul Rehman	Low Lying area	-do-	1
23	Angoori Bagh Scheme No.1	Under sized sewer	-do-	1

24	Sahuwari Mujahid Abad	Under sized sewer	-do-	1
25	Saif Park behind Shalimar Park	-do-	Ibrahim Road sewer	1
26	Shahab park/Ibrahim Colony	-do-	MCL drain	1
27	Deputy Yaqoob Colony	-do-	Main Road Gulbehar Colony	1
28	Gulbahar Colony	-do-	MCL drain	1
29	Green Park	-do-	-do-	1
30	Shadi Pura	-do-	-do-	1
31	Imtiaz Road.	Road depression	Tertiary drain	1
	Aziz Bhatti Town			
32	Al-Faisal Town, Block-C	-do-	-do-	1
33	Ghaziabad near Graveyard	-do-	-do-	1
34	New Airport access Road	No sewerage system	Irrigation channel	1
35	Taj Pura Scheme Block-B	Depression	Adjacent sewer	1
36	Taj Pura Scheme "E" Block near Mosque	-do-	-do-	1
37	Taj Pura C Block	-do-	-do-	1
38	Taj Pura Pind near single Grave	No sewer system	-do-	1
39	Bahar Shah Disposal Station	In case of Power Break Down	Adjacent drain	1
40	Overhead Bridge	Low Lying area.	Irrigation channel	1
41	Baja Line Ghari Shahu	-do-	Open area across railway line	2
	Gulberg Town			
42	Liberty Parking Gulberg	Low Lying area	Trunk sewer	2
43	Nawaz Shirf Colony Gulberg	Deficient sewer	Drain	1
44	Syed Muratab Ali	Depression	Sewer	1
45	Zafar Ali Road Gulberg	Deficient sewer	Drain	1
46	Lake Road Mozang	Low Lying area	University Ground	2
47	Fazilia Colony	Low Lying area	Drain	2
48	Ahata Mool Chand	Low Lying area	Sewer	1

	<i>Gunj Buksh Town</i>			
49	D-Block Graveyard, Gulshan Ravi	Low Lying area	-do-	2
50	Karbala Gammay Shah	Low Lying area	-	1
	<i>Iqbal Town</i>			
51	Mehran Block, A.I.T	Low Lying area	-do-	2
52	Madina Colony Kharak	-do-	Drain	2
53	Al Hamad Colony.	-do-	Drain	2
54	Sultan Ahmed Road.	-do-	Sewer	2
	<i>Nishtar Town</i>			
55	Faisal Town	Low Lying area	-do-	1
56	Usman block, Garden Town	Inadequate pumping capacity of disposal station	Drain	2
57	Arfa Tower	Low Lying area	Sewer	1
58	Chungi Amar Sadhu	Low Lying area	Sewer	1
	<i>Jubilee Town</i>			
59	Tikkka Chowk	Low Lying area	Sewer	1
60	Standby	-	-	3
			Total:	75

**LIST OF SENSITIVE DISPOSAL STATIONS/LIFT STATIONS WITH
NAME OF LESCO GRID AND LESCO FEEDER**

IQBAL TOWN

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Multan road disposal	Bund road	1. Said Pur 2. Niaz Baig
2.	Babu Sabu drainage station	Bund Road	1. Sabzazar 2. Said Pur
3.	Rasul Park Lift station	Shadman Qurtba.	Ichhra
4.	Duban Pura Lift Station	Saidpur	Awan Town
5.	Shah Fareed Lift Station	Bund Road	Said Pur
6.	Shah Kamal	Iqbal Town	Ichhra
7.	Katar Band	Niaz Baig	Town Johar Town
8.	Poonch Road Disposal Station	Saidpur	Ittehad Colony
9.	D-Block Sabzazar Disposal Station.	Bund Road	Saidpur
10.	Ichhra Bazar Disposal Station	Garden Town	Ichhra

GULBERG TOWN

Gulberg Sub Division

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	G-Block Disposal	Rehman Park	Bridge main Gulberg
2.	Sharif colony	Rehman Park	D-I Gulberg
3.	Zafar Ali Road	Rehman Park	WAPDA colony
4.	Centre point	Garden Town	Jinah colony
5.	Makka colony	Rehman Park	Makka colony
6.	Kalma chowk	Garden Town	Askari Flats
7.	Gurumangitt	Gurumangitt	Gunj Mahal Gulberg
8.	Nawaz Sharif Colony D/S	Old Kot Lakhpat	

Shimla Hill Sub Division

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Mohammad Nagar Allama Iqbal Road	Mecload Road 042-37242853 0321-7325398	Empress Park
2.	Ghazi Mohallah	Mecload Road 042-37242853 0321-7325398	Mohammad Nagar
3.	Laraches colony	Civil Line 042-99202731	Zaman Park
4.	Bird Market	-Do-	-Do-

Mozang Sub Division

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Shadman Disposal Station	Shadman	Shadman Market
2.	Shama Disposal Station	Shadman	Peer Ghazi Road
3.	Lytton Road Disposal Station.	Qurtaba	Mozang Adda

GUNJ BUKSH TOWN**Anarkali Sub Division**

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Napair Road	Nila Gumbad	Nila Gumbad
2.	Mochi bagh Lift station	Akbari Police station	Mujhaid Abad
3.	Lakshmi Chowk L/S	Mecload Road	Royal Park
4.	Janki Devi L/S	Mecload Road	Empress Park
5.	PIA Platinum D/S	Chuburji	Islampura
6.	Governor House	Empress Road	Governor House

Ravi Road Sub Division

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Main Out Fall disposal station	Bhatti Grid	Ibrahim road Bhatti Feeder
2.	Bagh Munshi Ladha lift station	Fort Grid	Data Gunj Buksh
3.	Kalay wali pully lift station.	Bhatti Grid	Data Gunj Buksh
4.	Qasoor pura (Dhobi Gat) L/S.	Ravi Grid	LDA Feeder
5.	Chotta Ravi Drainage station	Bhatti Grid	Rashid Road.

NISHTAR TOWN

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Sattu Katla D/S	Town Ship	Bilal

2.	LMP Block D/S	Model Town	Mohammad Pura and Link Road
3.	Nishtar colony Ferozepur Road	New Kot Lakhpat	1) Industrial-ii 2) Dhaloke
4.	Youhanabad L/S	New Kot Lakhpat	Dhaloke
5.	Nishtar colony old L/S	New Kot Lakhpat	Nishtar colony
6.	Race Club	LEFO	Ghosia
7.	Bostan Colony	Old Kot lakhpat	S.P Road
8.	C-I, Green Town	Town Ship	Baggrian
9.	C-II, Green Town	WAPDA Town	Baggrian-ii
10.	A-II, Town Ship	Town Ship	Town Ship
11.	S-Block Model Town	Kot Lakhpat	Bahar Colony
12.	Gajumata L/S	Ferozepur Road	Gajumatta
13.	Ameer Chowk D/S	Green Town	College Road

SHALIMAR TOWN

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Mehmood Booti Disposal station	i) Bogiwal ii) Shalimar	i) WASA
2.	Shadbagh Disposal station	Shadbagh	Amir Road
3.	Bhogiwal	Shadbagh	Link Road

RAVI TOWN**Shahdara Sub Division**

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Saeed Park Disposal Station	Shahdara New	Ravi Bridge
2.	Barkat Town Disposal Station	-do-	-do-
3.	Shahdara Town Disposal Station	-do-	Shahdara Village
4.	Dhair Disposal Station	-do-	Muslim Park
5.	Ravi Clifton Disposal Station	-do-	Shahdara Village
6.	Javed Park	Scrap Shahdara	F-3
7.	Maqba More	Shahdara New	Ravi Bridge

Farakhabad Sub Division

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Farakhabad Disposal Station	Maqbara Rustam	i) Chaman Colony ii) Irfat Park
2.	Faisal Park Lift Station	Maqbara	Barkat Town
3.	Faisal Park (Matchis Factory) Lift Station	Maqbara	Faisal Park
4.	Fazal Park L/S	Maqbara	Malik Park
5.	Kashmir Park L/S	Rustam	Malik Park

CITY SUB DIVISION

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	Lorry Adda disposal station	Bhatti Gate	Ahmad Park
2.	Forest colony Disposal Station	Ravi Grid	Qilla Muhammadi
3.	F&V Market disposal station and drain	Ravi Grid	Qilla Muhammadi
4.	Truck stand disposal station and drain	Ravi Grid	Qilla Muhammadi
5.	Drainage Disposal Station Bhatti	WASA Grid	WASA Feeder

Data Nagar Sub Division

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	PECO Road L/Station	Noor Road	Shadbagh
2.	Ali Pura D/S	Bund Road	Amin Park

JUBILEE TOWN

S.NO.	NAME OF DISPOSAL STATION/LIFT STATION	NAME OF LESCO GRID	NAME OF LESCO FEEDER
1.	LDA-Avenue I D/S	Jubilee Town	Defence Road
2.	Jubilee Town D/S	Jubilee Town	Defence Road
3.	Sattu Katla D/S	Wapda Town	Kalas
4.	Hadyara D/S	AWT	Canal Road
5.	Jatti Umrah	AWT	Canal Road
6.	Shah Dee Khoyee	Dhana Singh	Samanberg
7.	Shoukat Khanam D/S	Township	Palace Feeder
8.	Bheer D/S	Johar Town	Johar Town
9.	Ali Raza Abad	Ali Razabad	Barkat Town

DETAIL OF UNDERPASSES STAFF IN GARDEN TOWN SUB DIVISION

<u>JINNAH UNDER PASS</u>			
SR. NO.	NAME	SHIFT	TIMING
1	Arslan Pervaiz S/o Pervaiz Hussain 0302-5834763	1 st	06:00 pm to 02:00 pm
2	Sher Ali S/o Manzoor Ahmed 0304- 4031775	2 nd	02:00 pm to 10:00 pm
3	Muhammad Shahbaz S/o Muhammad Ashfaq 0307-5789713	3 rd	10:00 pm to 06:00 am
<u>CAMPUS UNDER PASS</u>			
SR. NO.	NAME	SHIFT	TIMING
1	Mr. Muhammad Sohail 0302-4672673	1 st	06:00 pm to 02:00 pm
2	Mr. Nabeel Usman S/o Jameel Ahmad 0307-4648002	2 nd	02:00 pm to 10:00 pm
3	Mr. Shahid Ali S/o Sadiq Ali 0321-8825460	3 rd	10:00 pm to 06:00 am
<u>GULZAR UNDER PASS</u>			
SR. NO.	NAME	SHIFT	TIMING
1	Mr. Mujeeb Ali S/o Anwar 0307-1737487	1 st	06:00 pm to 02:00 pm
2	Mr. Kashif Shahzad S/o Mian Shahzad 0306-8365112	2 nd	02:00 pm to 10:00 pm
3	Mr. Umar Khan S/o Shamim Khan 0310- 1437143	3 rd	10:00 pm to 06:00 am
<u>MODEL TOWN UNDER PASS</u>			
SR. NO.	NAME	SHIFT	TIMING
1	Mr. Awais Shahid S/o Shahid Aziz 0323- 8820364	1 st	06:00 pm to 02:00 pm
2	Mr. Asif Aslam S/o Sheikh Muhammad Aslam 0324-4744658	2 nd	02:00 pm to 10:00 pm

3	Mr. Muhammad Ameen S/o Khalil Ahmed 0322-4473729	3 rd	10:00 pm to 06:00 am
----------	---	-----------------	----------------------

Sub-Engineer Muhammad Faizan Tahir
0346-4474322

SDO Rashid Chuadhary 0300-4856299

XEN Shazil Waqar 0321-9077799

DETAIL OF UNDERPASSES STAFF IN XEN(O&M-I)AWT, DIVISION, WASA.

SR. NO.	NAME OF UNDER PASS	NAME OF EXECUTIVE ENGINEER WITH CELL NO.	NAME OF SDO WITH CELL NO.	NAME OF SUB-ENGINEER WITH CELL NO.	NAME OF OPERATORS WITH CELL NO.
1	Dharampura Under Pass No.1	Mr. Salman Nisar 0323-4466888	Azmat Ali Sheikh 0321-4687111	Irfan Taj 0321-7275074	M. Zeeshan (1st Shift) 0320-8432284 Mr. Kashif Shah (2nd Shift) 0301-4932671
2	Dharampura Under Pass No.2	Mr. Salman Nisar 0323-4466888	Azmat Ali Sheikh 0321-4687111	Irfan Taj 0321-7275074	Mr. Khamis (1st Shift) 0309-6179621 Mr. Musawwar (2nd Shift) 0320-4626875 Mr. Irshan (3rd Shift) 0321-4893325
3	Dharampura Under Pass No.3	Mr. Salman Nisar 0323-4466888	Azmat Ali Sheikh 0321-4687111	Irfan Taj 0321-7275074	Mr. Akram (1st Shift) 0307-8837667 Mr. Sami Ullah (2nd Shift) 0300-7961503

4	Mughalpura Interchange No.2	Mr. Salman Nisar 0323-4466888	Azmat Ali Sheikh 0321-4687111	Irfan Taj 0321-7275074	Mr. Noor Ahmed (1st Shift) 0308-4853945 Mr. Faisal (2nd Shift) 0306-4468164
5	Beijing Under Pass	Mr. Salman Nisar 0323-4466888	Azmat Ali Sheikh 0321-4687111	Irfan Taj 0321-7275074	Still not handed over to WASA

DETAIL OF UNDERPASSES STAFF IN MUSTAFA TOWN SUB DIVISION

Sr. No.	Name of Underpasses	Name of operator	Shift	Contact No
1	14 Number Underpass	Ahad Sheikh	1 st	0320-4189906
		Muhammad Talha	2 nd	0306-6412718
2	02 Number Underpass	Asghar Ali	1 st	0300-4807057
3	Main Campus Underpass	Saqib Javed 1st	1 st	0344-4880109
		Arif Javed 2nd	2 nd	0311-7405030

Sr. No.	Designation official	Name of official	Contact No
1	XEN	Hafiz Ghufraan Sadiq	0323-1414900
2	SDO	Saad Siddiqui	0334-1334461
3	Sub Engineer	Hafiz M.Awais	0320-4708020

DETAIL OF UNDERPASSES STAFF IN GULBERG TOWN

FEROZE PUR ROAD:				
Sr. No.	Underpass	Name	Shifts	Remarks
1	Gulberg Side	Mazhar	Day	09:00 AM to 09:00 PM
2		M. Ali	Night	09:00 PM to 09:00 AM
3	Mozang Side	Shahbaz	Day	09:00 AM to 09:00 PM
4		M. Ahmad	Night	09:00 PM to 09:00 AM
F.C.C:				
1	Gulberg Side	Azhar	Day	09:00 AM to 09:00 PM
2		Shareef	Night	09:00 PM to 09:00 AM
3	Mozang Side	Sakhawat	Day	09:00 AM to 09:00 PM
4		Murad Baig	Night	09:00 PM to 09:00 AM
JAIL ROAD:				
1	Gulberg Side	Khurram	Day	09:00 AM to 09:00 PM
2		Afzal	Night	09:00 PM to 09:00 AM
3	Mozang Side	Chand	Day	09:00 AM to 09:00 PM
4		Zaheer	Night	09:00 PM to 09:00 AM
MALL ROAD:				
1	Gulberg Side	Zohaib Hassan	Day	09:00 AM to 09:00 PM
2		Imran	Night	09:00 PM to 09:00 AM
3	Shimla Hill	Rehan	Day	09:00 AM to 09:00 PM
4		Awais	Night	09:00 PM to 09:00 AM
KALMA CHOWK:				
1	Gulberg Side	Zeeshan	Day	09:00 AM to 09:00 PM
2		Mubarak	Night	09:00 PM to 09:00 AM

XEN(O&M)G.T
SDO (Drainage)
G.T
SUPERVISOR

MUHAMMAD ARMUGHAN KHAN
CH. AHMAD HUSNAIN
MUHAMMAD ASIF

Cell No. 0324-4107917
Cell No. 0334-1334469
Cell No. 0322-9835170

DETAIL OF EMERGENCY CAMPS IN WASA, LAHORE.

Gen. SR. No.	NAME OF CAMP OFFICE	Name of SDO's	Name of Sub-Divisions	Name of Sub-Engineer's	Name of Supervisor's	STAFF			TOTAL
						1st Shift	2nd Shift	3rd Shift	
1	Lakshami Chowk	Syed Mehdi Hassan Shah 0322-4757112	Drainage (GBT)	Mr. Waqar Ahmad 0337-78054674	Mr. Imran 0322-4627012	15	15	15	45
2	Kashmir Road	Syed Mehdi Hassan Shah 0322-4757112	Drainage (GBT)	Mr. Waqar Ahmad 0337-78054674	Mr. Imran 0322-4627012	4	4	4	12
3	GPO Chowk	Syed Mehdi Hassan Shah 0322-4757112	Drainage (GBT)	Mr. Waqar Ahmad 0337-78054674	Mr. Sharif Masih 0345-4735011	6	6	6	18
4	Sheranwala Gate	Mr. Umair Masood 0321-8528088	Drainage (RT)	Malik Waseem 0321-7382620	Malik Waseem 0321-7382620 Mr. Jaffar 0322-4374736	6	6	6	18
5	Cooper Road	Hafiz Saqib Razzaq 0322-4228899	Anarkali	Mr. Bilal 0321-5331159	Mr. Sohni Gujjar 0322-8458286	8	8	8	24
6	Lytton Road	Mr. Naimat Ullah 0322-4423178	Mozang	Mr. Meer Ahmad 0321-5481540	Mr. Amanat	6	6	6	18
7	Lawrance Road	Ahmad Hussnain 0334-1334469	Draiange (GT)	Mr. Umair Raza 0333-5798268	Mr. Bashir 0324-4484161 Mr. Shahzad Rafiq 0337-7805439 Mr. Karamat Masih 0337-7805438	10	10	10	30
8	Qurtaba Chowk Mozang	Ahmad Hussnain 0334-1334469	Draiange (GT)	Mr. Imran Hassan 0337-7804994	Mr. Khushi Masih 0308-4689755 Mr. Boota Masih 0337-7805402	10	10	10	30
9	Nabha Road	Syed Mehdi Hassan Shah 0322-	Draiange (GBT)	Mr. Waqar Ahmad 0337-78054674	Mr. Sharif Masih 0345-4735011	10	10	10	30

		4757112							
10	Rasool Park	Mr. Musab Latif 0323-5245120	Drainage (IT)	Mr. Ayaz Hanif 0323-4127320	Mr. Arif 0322-8423671	10	10	10	30
11	Dubai Chowk	Mr. Musab Latif 0323-5245120	Drainage (IT)	Mr. Ayaz Hanif 0323-4127320	Mr. Karamat 0316-0491254	6	6	6	18
12	Model Town Link Road	Mr. Ammar Anwar 0334-1334422	Township	Mr. Farhan Abbas 0323-62050720337-7803026 Mr. Azaz Amjad 0323-9657775	Mr. James Masih 0300-48991200337-7803449	8	8	8	24
13	SOS Village	Mr. Areez Irfan 0322-9537736	Drainage (NT)	Mr. Shakeel Khan 0337-7800714	Mr. Shakeel Khan 0337-7800714	7	7	7	21
14	Tikka Chowk Johar Town	Mr. Saif Ullah 0334-1334457	Johar Town	Mr. Khurram 0337-7803461	Mr. Sabir 0314-4077084	7	7	7	21
15	Firdous Market	Ahmad Hussnain 0334-1334469	Drainge (GT)	Mr. Umair Raza 0333-5798268	Mr. Bostan Miash 0322-4976022 Mr. Rafiq 0308-5512173	6	6	6	18
16	Eik-Moria Pul	Mr. Abdul Rehman 0333-4160541	Misri Shah	Mr. Shahzad 0337-7809649	Mr. Faisal 0300-4593280 Mr. Imran Mushtaq 0320-4856056	12	5	7	24
17	Chowk Nakhuda	Mr. Muhammad Naeem 0334-1334410	Shadbagh	Mr. Ijaz 0322-4971003	Mr. Waris 0300-4331609	15	5	15	35
18	Bhatti Gate	Mr. Ghulam Mustafa 0322-4426162	City	Mr. Mohsin Javed 0337-7803128	Mr. Younas Masih 0337-7804339	6	7	7	20
19	Shah Jamal	Mr. naimat Ullah 0322-4423178	Mozang	Mr. Imran 0337-7804994	Mr. Umar Farooq 0300-7911296	9	4	0	13

20	Pouch Road.	Mr. Zeeshan Manzoor 0334-1334416	Samanabad	Mr. Umer 0312-9440014	Mr. Saddique 0337-7803419	11	9	8	28
21	Sultan Ahmed Road	Mr. Zahid Hussain 0321-4683332	Ichhra	Mr. Amir Tufail 0321-5293623	Mr. Amjad Gujjar 0300-4742097	6	6	6	18
22	Al-Hamad Colony	Mr. Faisal Sarwar 0300-8021339	Iqbal Town	Mr. Sikandar 0307-4050124	Mr. Zubair 0322-6380235 Mr. Hanif 0322-8898027 Mr. Rehmat Masih	5	3	4	12
23	Shadman Lift Station	Mr. naimat Ullah 0322-4423178	Mozang	Mr. Umar Farooq 0300-7911296	Mr. Khalid	5	4	4	13
24	General Hospital	Qamar-ul-Hasnain Naz 0321-4687300	Industrial Area	Mr. Asif 0337-7803396	Mr. Akbar 0322-8402162	4	4	4	12
25	Usman Block Garden Town	Mr. Areez Irfan 0322-9537736	Drainage (NT)	Mr. Umair 0337-7805403	Mr. Hanif 0300-8143723	5	5	5	15
26	Hussain Chowk Gulberg.	Mr. Kashif Rasool 0307-5196065	Gulberg	Mr. Muazzam Sheharyar 0322-4132927	Mr. Asim 0300-4582210	5	4	3	12
27	Empress Road / Haji Camp	Mr. Salman Mirza 0322-6535113	Shimla Hill	Mr. Kamran 0323-4218900	Mr. Asif 0324-4115002	3	3	3	9
28	Railway Station.	Mr. Salman Mirza 0322-6535113	Shimla Hill	Mr. Kamran 0323-4218900	Mr. Asif 0324-4115002	3	3	3	9
29	Do-Moria Pul.	Mr. Abdul Rehman 0334-1334414	Misri Shah	Mr. Asad Kamal 0337-7809650	Mr. Mir Moeen 0321-8896145 Mr. Rasheed Masih 0323-4636105	4	5	5	14
30	Zahoor Elahi	Mr. Kashif	Gulberg	Mr. Jahangir	Mr. Yaqoob	2	2	2	6

	Road.	Rasool 0307- 5196065		0337-7803370	0300- 4107176				
31	Lakshmi Chowk Lift Station.	Hafiz Saqib Razzaq 0322- 4228899	Anarkali	Ch. Naseer 0337-7808400	Mr. Shan 0321- 7815179	2	2	1	5
32	Bagheechi Saithan GT Road.	Syed Sultan Rafique 0334- 1334409	Mughalpura	Mr. Shahzada Munir 0311-4253982	Mr. Ikram 0320- 4177909	4	4	4	12
33	Shalimar Link Road.	Syed Sultan Rafique 0334- 1334409	Mughalpura	Mr. Shahzada Munir 0311-4253982	Mr. Waseem 0324- 4418707	3	3	2	8
34	Baghbanpura.	Rana Rafaqat 0321- 4279938	Baghbanpura	Mr. Irshad 0320-0400699	Mr. Karamat 0300- 8140874	3	3	4	10
35	B-Block, Tajpura.	Ch. Amir 0334- 1334434	Tajpura	Mr. Sami Ullah 0324-4454949	Mr. Kamran 0300- 4817831	3	2	2	7
	TOTAL					229	202	208	639

RESCUE 1122



PRE-FLOOD EMERGENCY ARRANGEMENTS
FOR THE FLOOD SEASON 2020

Rescue 1122, Lahore has established a Water Rescue Team (list attached) to manage the emergencies regarding Water Rescue and Flood. The Water Rescue Team comprising of swimmers and equipped with following equipment to deal with emergencies.

- **Wireless Communication Ravi Base (CH-06)**
- Water Rescue Van 01
- Fiber/ Inflatable Water Boat 20
- Aluminium Water Boat (18 Persons Capacity) 02
- OBM Engine 08
- Life Jackets 68
- Life Ring 04
- Oars 26
- Life Line 07
- SCUBA Diving Set 02
 (Self Contained Underwater Breathing Apparatus)

PRE-FLOOD EMERGENCY CONTINGENCY PLAN – 2020
(Overall Resources Detail)

District Emergency Officer

Shahid Waheed

0321-4090063

Emergency Officers

Dr. Rizwan Ahmad Ch

0323-4419638

Engr. Usama Ahmad Zia

0308-8515253

Engr. Shahiryar Inam

0301-5370461

Information

Mr. Farooq Ahmad

(Spokesperson Punjab/PRO)

0300-6045899

Overall Resources

➤ Ambulances	50	
➤ Motorbike Ambulances	300	
➤ Fire Vehicles	18	
➤ Snorkels (104M& 70M)	02	
➤ Specialized Vehicles	03	
➤ Rescue vehicles	06	
➤ Water Rescue Van	01	
➤ Recovery Vehicle		01
➤ Urban Search And Rescue Team	01	
➤ Rescuers	1300	

LOGISTIC SUPPORT

Mr. Saleem Masih

Accountant

0302-4165422

Mr. Muhammad Ramzan

Store Keeper

0344-4793191

COMMUNICATION & CONTROL ROOM

Mr. Fareed-ud-Din Zaidi

Control Room

Incharge

0321-4888859

Mr. Salman Zaheer

Wireless Technician

0321-9470045

TECHNICAL SUPPORT

Engr. Hassan Badar
Emergency Officer (R&M)
0336-4318281

Mr. Adil Hussain
Transport Maintenance Inspector
0322-9052571

FLOOD & WATER RESCUE TEAM

S. No	Name	Designation	Mobile No	Place of duty
FLOOD / WATER RESCUE TEAM INCHARGE				
1	Shahid Imran	Rescue & Safety Officer	0333-4221895	RS-11
RESCUE TECHNICIANS				
1	Babar Riaz	Rescue Technician	0332-4541122	LDRF
2	Muhammad Azeem	Shift Incharge	0322-3909803	LDRF
WATER RESCUE TEAM				
1	Nematullah	Lead Fire Rescuer	0322-4346962	RS-11
2	Rashid Mahmood	Shift Incharge	0321-9410358	RS-04
3	Awais Mahmood	Shift Incharge	0321-7502810	RS-08
4	Mehboob Ali	Computer Telephone Wireless Operator	0344-4842908	RS-11
5	Haq Nawaz	Emergency Medical Technician	0343-4222448	LDRF
6	Imtiaz ul Hassan	Fire Rescuer	0312-6271122	LDRF
7	Usman Maqsood	DERT Rescuer	0347-9273266	USAR
8	Irshad	DERT Rescuer	0347-6376717	USAR
9	Ashraf Baig	Driver (HTV)	0333-4664132	LDRF
10	Basharat Ali	Sanitary Worker	0302-4506982	RS-11
RESCUERS				
1	Irfan Habib	DERT Rescuer	0301-4739825	RS-16
2	Muhammad Naveed	DERT Rescuer	0301-4941271	LDRF
3	Muhammad Sajjad	DERT Rescuer	0301-4269015	LDRF
4	Ali Akbar	DERT Rescuer	0301-4836029	LDRF
5	M Faisal Raza	DERT Rescuer	0321-4178634	RS-09
6	Imran Ahmad	DERT Rescuer	0334-3671122	RS-18
7	Imtiaz Sharif	DERT Rescuer	0334-3241122	LDRF
8	S. Najam Mehdi	DERT Rescuer	0334-3861122	RS-17

9	Mehar Ali Raza	DERT Rescuer	0320-6392867	LDRF
10	M. Almas	Fire Rescuer	0306-6937707	RS-09
11	Muhammad Asif	Fire Rescuer	0314-4664368	RS-09
12	Muhammad Luqman	Emergency Medical Technician	0323-4190446	LDRF
13	Sarfraz Ahmed	Emergency Medical Technician	0302-4111556	MBAS

GOVERNMENT OF THE PUNJAB

FLOOD FIGHTING PLAN
OF
LAHORE DRAINAGE DIVISION LAHORE
FOR THE YEAR 2020

*LAHORE IRRIGATION ZONE, LAHORE
LAHORE DRAINAGE CIRCLE, LAHORE
LAHORE DRAINAGE DIVISION, LAHORE*

IRRIGATION DEPARTMENT, LAHORE

BACKUP TEAM

- Incharges:**
1. Muhammad Azam Rescuer & Safety Officer
 2. Mohammad Muneer Rescuer & Safety Officer

S. No	Name	Father's name	Desig	Place of duty
1	M. Rizwan Awais	Rai Kabir Ahmad	Shift Incharge	RS-01
2	Abdul Waheed	Muhammad Hanif	Shift Incharge	RS-04
3	Rana Rizwan	Muhammad Rafique	Shift Incharge	RS-17
4	Syed Jaffar Ali Shah	Muzammal Hussain	Shift Incharge	RS-09
5	Muhammad Azeem	Ghulam Hussain	Shift Incharge	LDRF
6	Muhammad Nadeem	Muhammad Ali	Lead Fire Rescuer	LDRF
7	Nadeem Hussain	Muhammad Hussain	Lead Fire Rescuer	RS-04
8	Muhammad Aslam	Muhammad Anwar	Lead Fire Rescuer	RS-11
9	H. Ghulam Mustafa	Mushtaq Ahmad	Lead Fire Rescuer	RS-01
10	Imtiaz Ali	Muhammad Ali	Fire Rescuer	RS-01
11	M. Mazhar	M. Nawaz	Fire Rescuer	RS-02
12	M. Imran Sarwar	H. M. Sarwar	Fire Rescuer	RS-13
13	Yasin Bashir	Bashir Ahmad	Fire Rescuer	RS-16
14	Muhammad Akram	Abdul Majeed	Fire Rescuer	RS-07
15	Muhammad Murtaza	Punno Khan	Fire Rescuer	RS-14
16	Mohammad Awais	Walayat Ali	Fire Rescuer	RS-08
17	M. Asim Javed	Noor Muhammad	Fire Rescuer	RS-02
18	Sami Ullah	Nasarullah	Fire Rescuer	RS-02
19	Farhan Liaqat	Liaqat Ali Khan	Fire Rescuer	RS-02
20	Mehboob Arshad	Muhammad Arshad	Fire Rescuer	RS-15
21	Muhammad Hussain	Ghulam Hussain	Fire Rescuer	HO
22	M. Mazhar	M. Nawaz	Fire Rescuer	RS-02
23	Muhammad Aleem	Muhammad Khurshid	Fire Rescuer	RS-09
24	Faisal Shabbir	Muhammad Shabbir	Fire Rescuer	RS-09
25	Ali Raza Qadri	Din Muhammad	DERT Rescuer	LDRF
26	Muhammad Atif Bashir	Bashir Ahmad	DERT Rescuer	RS-01
27	Muhammad Mubashar	Muhammad Mansha	DERT Rescuer	RS-12
28	Riaz Ahmad	Naeem Ahmad	DERT Rescuer	LDRF
29	Arsalan Ahmad	Amanat Ali	DERT Rescuer	RS-07
30	Mohammad Ali	Muhammad Farooq	DERT Rescuer	LDRF
31	Kanwar Javed Umar	M. Umar khan	Driver (HTV)	RS-02
32	Nasir Mahmood	Shamsher Khan	Driver (LTV)	RS-14
33	Shahzad Rafique	M. Rafique	Driver (LTV)	RS-01
34	Abid Hussain	Roshan Ali	Driver (LTV)	RS-01
35	Syed Majid Javed	S. Khalid Javed	Driver (LTV)	LDRF
36	Muhammad Nadeem	Abdul Majeed	Driver (LTV)	RS-01
37	Mujahid Ali	Muhammad Zafar	Driver (LTV)	RS-09

38	Anwar Ali	Naseer ud Din	Driver (LTV)	LDRF
39	Amjad Khan	Murad Khan	Driver (LTV)	RS-08
40	Amanat Ali	Niamat Ali	Driver (LTV)	RS-09
41	Sajjad Hussain	Ghulam Hussain	Driver (LTV)	P. Assembly
42	Muhammad Faisal	Muhammad Latif	Sanitary Worker	HO

EMERGENCY VEHICLES PLAN FOR RAIN

Station	Ambulance	Key Points/ Duty
Central Community Rescue Station	LA-77	Model Town Mor
	LA-45	Campus Bridge (Canal Road)
	LA-46	Mall Road, WAPDA House
	LA-22	Liberty Round About
	LA-80	Central Community Rescue Station
	LF-24	Kalma Chowk to Ichra (Patrolling)
	LR-01	LOS Shama Chowk
	LR-02	FC College to Mall Road (Patrolling)
	LR-08	LOS Shama Chowk
	LR-10	LOS Shama Chowk
	Water Bowser	LOS Shama Chowk
Niaz Baig Community Rescue Station	LA-78	Mansoor
	LA-79	Niaz Baig Community Rescue Station
	LA-33	WAPDA Town Roundabout
	LF-27	Niaz Baig Community Rescue Station
	LR-03	Jinnah Terminal, Multan Road (Patrolling)
Township Community Rescue Station	LA-47	Jinnah Hospital to Akbar Chowk (Patrolling)
	LA-48	Township Community Rescue Station
	LA-66	Township Community Rescue Station
	LF-25	Akbar Chowk
Walton Community Rescue Station	LA-04	Kamahan to Attari (Patrolling)
	LA-87	Kacha Jail Road, Chungi Amer Sidhu
	LF-03	Walton Community Rescue Station
Gajju Community Rescue Station	LA-49	Nishtar to Gajjumatta (Patrolling)
	LA-81	Gajju Matta Community Rescue Station

Station	Ambulance	Key Points/ Duty
	LA-67	Kahna, Main Ferozepur, Road
	LF-37	Gajjumatta Community Rescue Station
Nadeem Chowk Community Rescue Station	LA-01	Mian Meer Bridge towards Airport (Patrolling)
	LA-88	Cavalry PSO Pump
Mustafa Abad Community Rescue Station	LA-69	Mustafa Abad towards Railway Station
	LF-10	Sadar Round About
Mughalpura Community Rescue Station	LA-89	Mughalpura Chowk towards Shalimar Link Road (Patrolling)
	LA-52	Garhi Shahu, Allama Iqbal Road (Patrolling)
	LA-70	Co-up store Mughalpura
	LF-01	UET GT Road (Patrolling)
Lohari Community Rescue Station	LA-53	District Courts to PMG Chowk (Patrolling)
	LA-63	Bhatti to Shah Alam Market (Patrolling)
	LF-04	GPO to Regal Chowk, Mall Road (Patrolling)
	LF-28	Data Darbar
Yadgar Community Rescue Station	LA-91	Azadi Chowk to 32-Chowk (Patrolling)
	LA-92	Aik Moria to Railway Station (Patrolling)
	LA-84	Bhatti Chowk
	LF-07	Yadgar Community Rescue Station
Shahdara Community Rescue Station	LA-72	Begum Kot Chowk (Patrolling)
	LA-44	Rachna Town (Patrolling)
	LA-73	Shahdara Mor to Match Factory (Patrolling)
	LF-06	Shahdara Community Rescue Station
Raiwind Community Rescue Station	LA-54	Adda Plot, Raiwind Road
	LA-74	Raiwind Community Rescue Station
	LA-94	THQ Raiwind
	LR-09	Raiwind Community Rescue Station
	LF-35	Raiwind Community Rescue Station
Manga Community	LA-64	Manga Community Rescue Station

Station	Ambulance	Key Points/ Duty
Rescue Station	LA-65	Manga Mandi Bypass, Multan Road
	LF-36	Manga Mandi Bypass, Multan Road
Moon Market Community Rescue Station	LA-85	Main Boulevard (Allama Iqbal Town) (Patrolling)
	LF-02	Yateem Khana to Scheme More (Patrolling)
DHA Community Rescue Station	LA-50	Main Boulevard to Ghazi Road (Patrolling)
	LA-51	DHA Community Rescue Station
	LF-15	Bhatta Chowk (Patrolling)
Saghian Community Rescue Station	LA-86	Chauburji Chowk/ Orange Line
	LA-93	Gulshan Ravi Band Road (Patrolling)
	LF-26	Band Road
	LR-06	Outfall Road (Patrolling)
Bedian Community Rescue Station	LA-71	Bedian Road towards Airport (Patrolling)
	LA-07	Bedian Community Rescue Station
	LF-31	Bedian Community Rescue Station

DISTRICT LAHORE FLOOD RELATED DETAILS **(2020)**

Flood Prone Area	Shahdara to Manga (Areas adjacent to River Bed)		
Boat Carrier Trolleys	01		
OBM Operators (detail is as under)			
S. No	Name	Designation	Contact No.
1	Mehboob Ali (RS-11)	Computer Telephone Wireless Operator	0344-4842908
2	Haq Nawaz (LDRF)	Emergency Medical Technician	0343-4222448
3	Atif (RS-01)	DERT Rescuer	0321-4235960
4	Atta ur Rehman (LDRF)	Fire Rescuer	0332-0065852

5	Sajjad Faisal (LDRF)	Fire Rescuer	0308-7937965
6	Zafar Abbas (LDRF)	Fire Rescuer	0301-2727471
7	Usman Maqsood (USAR)	DERT Rescuer	0323-9680026
8	M. Rashid (USAR)	DERT Rescuer	0322-4277250
9	M. Mudassar (USAR)	DERT Rescuer	0300-9584756
10	Imtiaz ul Hassan (LDRF)	Fire Rescuer	0307-4374160
11	Ashraf Baig (LDRF)	Driver (HTV)	0324-4622262
12	Muhammad Irshad (LDRF)	Driver (LTV)	0323-4967834

14.8 DETAIL OF POLYTHENE SHEETS OF BLACK COLOUR TO PROTECT UPSTREAM SLOPE AGAINST WAVE ACTION AND TO CONTROL SEEPAGE THROUGH EMBANKMENT.

Polythene sheets of black colour for protecting upstream slopes waves and control to seepage (Average 20 FT Width) 0 Rft

CHAPTER – 15

BACKUP DIVISION (IN CASE OF BREACH)

In case of Emergency/Breach Lahore Division CBDC will act as sister Division of Lahore Drainage Division Lahore.

FLOOD FIGHTING PLAN OF LAHORE DRAINAGE DIVISION, LAHORE

CHAPTER – 1
SALIENT FEATURES OF LAHORE DRAINAGE DIVISION

1.1 LOCATION

Lahore Drainage Division Lahore is situated at Canal Bank Mustafabad Lahore. River Ravi enters in Pakistan territory near Kot Nainan, Tehsil Shakargarh, and District Narowal. Many flood protection works on both sides of the river, such as Jalala Bund, Kotli Sanian bund, Hajipur Gujran Bund, Bheco Chak Bund Shahdara Bund, Mehmood Booti Bund, Lahore Protection Bund & Sharkpur Bund etc along with battery of spurs are located on Pakistan side. Right from Madhupur Head works to Ravi Syphon, the River is trained in Indian Territory by large number of River Training works by India.

On the Pakistan side in Narowal District, there are Jassar Bund, Highway Flood Protection Bund, and Raya Bund. Daily information regarding discharge in

the River at Mahdupur Head works is received by the Flood Warning Center, Lahore and the Departmental functionaries are supposed to be vigilant to meet with any emergency from 15th June to 15th Oct. The jurisdiction of Lahore Drainage Division Lahore, on the left side is started from downstream Ravi Syphon to Head Balloki and on the right side it started from Shahdara Flood Protection Bund to Downstream Sharkpur Flood Protection Bund. On right side of River Ravi, there is Shahdara Flood Protection Bund RD.0-15+750 which starts from upstream of Shahdara Railway Bridge and connects Shahdara Disty Flood Protection Bund at RD.65+000. Similarly on left side of River Ravi, there is Mahmood Booti Bund RD.0-29+300 on the upstream of Shahdara Railway Bridge. The Mahmood Booti Bund has now come under the Ring Road and does not exist in its original shape and design. The Shahdara and Mahmood Booti Bunds are connected with series of River Training Works to train the river through Shahdara Railway Bridge and old G.T. Road Bridge.

On right side of River Ravi, down steam of Shahdara Railway Bridge there is Sharkpur Flood bund having length RD.0-32+060 and on the left side of the River Ravi, there is Lahore protection bund RD.0-26+000 and Tie Bund connected with series of river training works. It is again mentioned here that Ring Road and Motorway have been constructed over Lahore Protection bund & Tie Bund respectively and these both bunds now do not exist in their original shape and design.

1.2 GENERAL DESCRIPTION

Lahore Drainage Division was established during 1957-59. The main objectives of this Division are:-

1. To look after the flood protection bunds along the River Ravi in District, Lahore and Sheikhpura.
2. To maintain drains in Lahore and Kasur District.

There are four Sub Divisions under the control of this Division namely:-

1. Flood Bund Sub Division
2. Lahore Drainage Sub Division
3. Kasur Drainage Sub Division

4. River Survey Drainage Sub Division

Flood Bund Sub Division is entirely concerned with the flood protection works and to look after the flood Bunds. There are 5-No Flood Protection Bunds and 22 No spurs in Lahore and Sheikhpura District. However the J-head spur at Shahpur Kanjran and J-head spur at Chung are under control of Kasur Drainage Sub Division, Lahore.

- i) Shahdara Flood Protection Bund with 5 spurs.
- ii) Mahmood Booti Bund with 2 spurs.
- iii) Lahore Flood Protection Bund with 5 spurs.
- iv) Lahore Tie Bund with 3 spurs.
- v) J-Head spur at Shahpur Kanjran.
- vi) J-Head spur at Chung.
- vii) J-Head spur at Qadirabad.
- viii) Sharkpur Flood Protection Bund with 5 spurs.

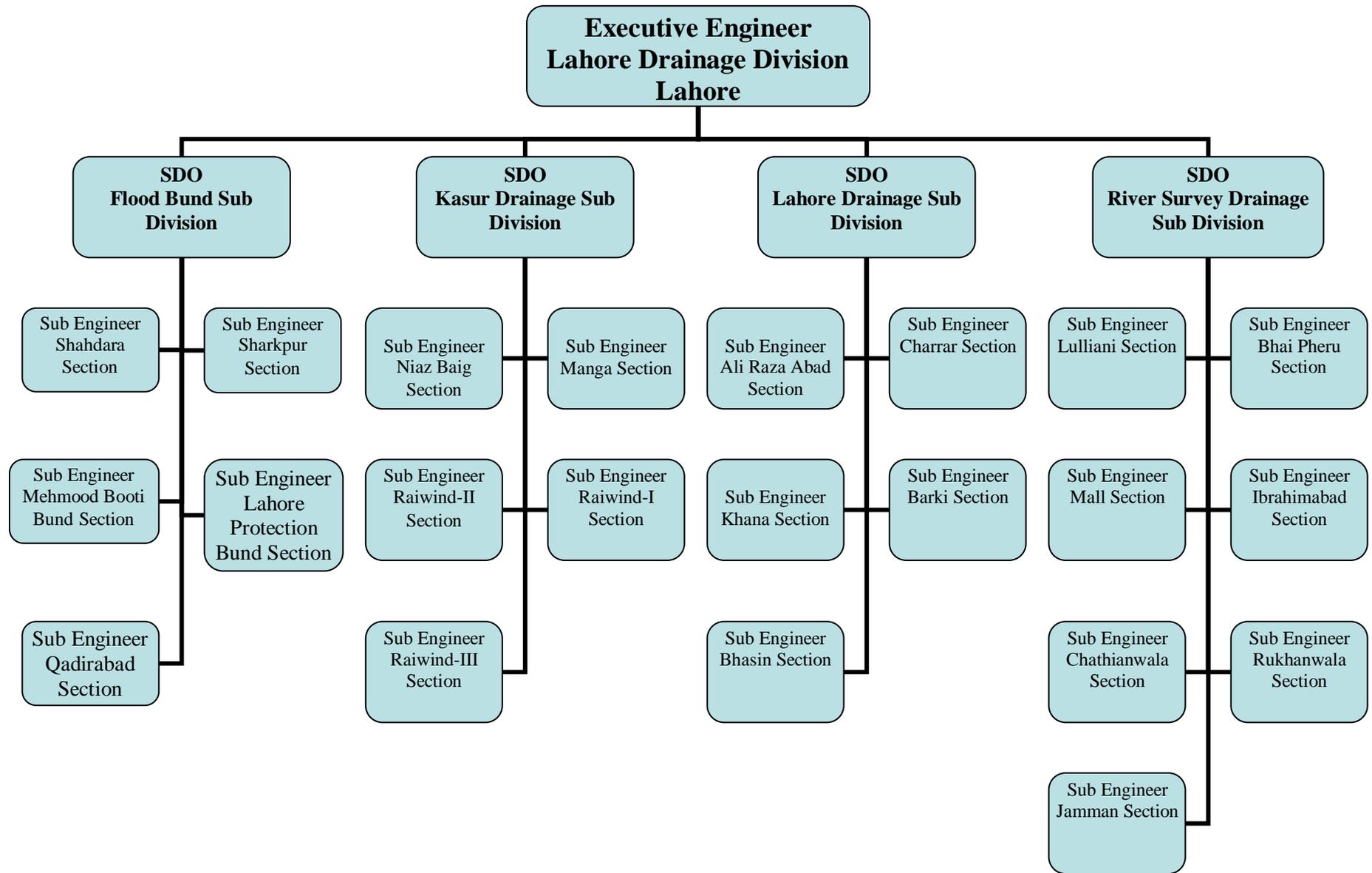
The other 3 Sub Divisional Officers are responsible for the operation and maintenance of three drainage system:

1. Hudiara Drainage System
2. Pandoki Drainage System
3. Raiwind Drainage System

Sub Divisional Officer Kasur Drainage Sub Division has the control of Raiwind Drainage System. Sub Divisional Officer Lahore Drainage Sub Division looks after the Hudiara Drainage System while the Sub Divisional Officer River Survey Drainage Sub Division is responsible for the Pandoki Drainage System.

Watching of the bunds and River Training works is done as per duty roster provided in the flood fighting plan of this Division (plan attached). All other details of flood fighting are given in the light of instructions issued by the Chief Engineer, Drainage & Flood Zone Lahore vide No.D&F/2012/859/25/76 dated.10-03-2012.

1.3 ADMINISTRATIVE SETUP



CHAPTER – 2

FLOOD PROTECTION AND RIVER TRAINING WORKS

2.1 DESIGN PARAMETERS OF TRAINING WORKS

S.#	Name of Bunds	Sub Division	Section	Length (in ft)	Top width (in feet)	Side Slopes		RD	H.F.L. (R.L) for the year 1988 326000 Cs	Free Board (in ft)	Top R.L. of bund / Spur
						River Side	Countr y side				
FLOOD BUND SUB DIVISION, LAHORE											
<i>Mahmood Booti Section</i>											
1	Mahmood Booti Bund RD.0-29000 (Lahore Ring Road)	F.B.S.D	M.B.B	29000	40	3 ;1	2 ;1	0	694	6	700
2	Hockey spur at RD.7000 M.B.Bund	F.B.S.D	M.B.B	3700	25	3 ;1	2 ;1		694	6	700
3	Slopping spur at RD.9000 M.B.Bund	F.B.S.D	M.B.B	3650	15-18	3 ;1	3 ;1		694		695
<i>Shahdara Flood Protection Bund Section</i>											
<i>Shahdara Flood Protection bund RD.15750</i>											
1	T-Head spur No.1 at RD.2300	F.B.S.D	S.F.P.B	600	25	3 ;1	2 ;1	15150	694	5	704.34
2	T-Head spur No.2 at RD.4300	F.B.S.D	S.F.P.B	2000	25	3 ;1	3 ;1				701
3	T-Head spur No.3 at RD.6300	F.B.S.D	S.F.P.B	1000	25	3 ;1	3 ;1				702.19
4	T-Head spur No.4 at RD.7400	F.B.S.D	S.F.P.B	1200	25	3 ;1	3 ;1				703.48
5	Hockey spur No.5 at RD.9500	F.B.S.D	S.F.P.B	3600	25	3 ;1	3 ;1				703.87
6	Stone Stud No.1 along Hockey Spur.	F.B.S.D	S.F.P.B	225							
7	Stone Stud No.2 along Hockey Spur.	F.B.S.D	S.F.P.B	225							
<i>Lahore Flood Protection Bund Section</i>											
1	Lahore Protection Bund RD.3000-26000 (Lahore Ring Road)	F.B.S.D	L.F.P.B	23000	25	3 ;1	2 ;1	3000	693.7	3	696.4
2	J-spur No.1 (Gowshala) at RD.3600	F.B.S.D	L.F.P.B	1490	25	3 ;1	3 ;1			6	697.46
3	J-spur No.2 at RD.5700	F.B.S.D	L.F.P.B	3800	20	2 ;1	2 ;1				695.53
4	J-spur No.3 at RD.9800	F.B.S.D	L.F.P.B	4295	20	2 ;1	2 ;1				694.77
5	J-spur No.4 at RD.17800	F.B.S.D	L.F.P.B	3992	20	2 ;1	2 ;1				693.1
6	T-Head spur No.5 at RD.19900	F.B.S.D	L.F.P.B	5775	20	2 ;1	2 ;1				691
<i>Tie Bund RD.0-20000 (Motorway)</i>											
1	J-head spur No.1 at RD.6600	F.B.S.D	L.F.P.B	4363	25	3 ;1	3 ;1	500			694
2	L-Bund / Spur at RD.10600	F.B.S.D	L.F.P.B	2000	25	3 ;1	3 ;1				692.48
3	J-head spur No.2 at RD.20000	F.B.S.D	L.F.P.B	4562	25	3 ;1	3 ;1				689

S.#	Name of Bunds	Sub Division	Section	Length (in ft)	Top width (in feet)	Side Slopes		RD	H.F.L. (R.L) for the year 1988 326000 Cs	Free Board (in ft)	Top R.L. of bund / Spur
						River Side	Country side				
Qadirabad Section											
1	J-spur Qadirabad	F.B.S.D	Qadirabad	5690	25	3 ;1	3 ;1	0		-	690
2	Slopy spurs No.1 (Farkhabad)	F.B.S.D	Qadirabad	135	10	2 ;1	2 ;1			-	688.5
3	Slopy spurs No.2 (Farkhabad)	F.B.S.D	Qadirabad	190	8	3 ;1	2 ;1			-	689
4	Slopy spurs No.3 (Farkhabad)	F.B.S.D	Qadirabad	135	10	2 ;1	2 ;1			-	690.83
Sharkpur Flood Protection Bund Section											
1	Sharkpur Flood Protection Bund RD.0-32060	F.B.S.D	SKP.F.P	32060	25	3 ;1	2 ;1	0	675.7	6	679.66
2	J-spur No.1 at RD.5060 S.F.P.Bund	F.B.S.D	SKP.F.P	4000	25	3 ;1	3 ;1			5	678.5
3	J-spur No.2 at RD.11080 S.F.P.Bund	F.B.S.D	SKP.F.P	4050	25	3 ;1	3 ;1			5	677.96
4	Earthen spur No.3 at RD.16510 S.F.P.Bund	F.B.S.D	SKP.F.P	4800	25	3 ;1	3 ;1			5	677
5	T-head spur No.4 at RD.26860 S.F.P.Bund	F.B.S.D	SKP.F.P	2230	25	3 ;1	3 ;1			5	674.3
6	J-head spur No.5 at RD.30560 S.F.P.Bund	F.B.S.D	SKP.F.P	1800	25	3 ;1	3 ;1			5	671.69
Kasur Drainage Sub Division, Lahore											
1	J-spur Shahpur Kanjran RD.0-7948	Kasur	Niaz Baig	7948	25	3 ;1	2 ;1				683
2	J-head spur at Chung RD.0-5673	Kasur	Niaz Baig	5673	25	3 ;1	3 ;1				679.66
3	Mole head spur	Kasur	Niaz Baig	2244	25	3 ;1	3 ;1				
Total Length				205182							

NOTE: As already discussed in the report Mahmood Booti Flood Protection Bund, Lahore Flood Protection Bund and Tie Bund have become under Ring Road and Motorway and do not exist in their original shape and design.

2.2 LOCATION MAP

On Next Page

CHAPTER – 3 **BRIEF HISTORY OF PAST FLOOD EVENTS**

There are three gauging stations upto Shahdara Railway Bridge when river Ravi enters into territory of Pakistan viz, Jassar, Ravi Syphon and Railway Bridge Shahdara. The first head works on this River in Pakistan is Balloki Head Works.

The gauge fixed at Shahdara Railway Bridge is recorded regularly during the flood season. In 1947, exceptional high flood of 225000 Cs was recorded at this site. In 1955 flood of 540000 Cs was experienced at Shahdara. In 1973, flood of 444299 Cs was noted at this site. During the flood of 1988, discharge of 326100 Cs. was experienced through Railway Bridge and the rest of about 249900 Cs through breaching section. The gauge observed at Shahdara Railway Bridge was R.L. 694.70 feet, when breaching section was operated during this flood. The Shahdara Flood Protection Bund breached at RD.13± and 15± when breaching section between RD.55+000 to 65+000 of Shahdara Distributary Bund was operated during this flood. The discharge of breached section at cut in the Shahdara Flood Protection Bund was estimated to be 1.0 Lac Cs. This discharge caused inundation of Shahdara Town and its suburbs. All the roads and other infrastructure came under water with varying depth from one foot to eight feet.

Massive destruction was caused by the flood of 1988 in Shahdara and allied abadies.

After 1988, the significant floods were experienced in 1993, 1995, 1996 & 1997 recorded as 91415, 171520, 182340 and 123080 Cs respectively. Since 1997, no real flood situation has been noted at Shahdara.

CHAPTER – 4

DESIGN DATA, HISTORIC PEAK FLOOD DATA AND PREVIOUS FIVE YEARS FLOOD DATA OF HEAD WORKS / BARRAGES AND OR OTHER CONTROL POINTS

4.1 FLOOD LIMITS (Cs)

Location	LOW	MEDIUM	HIGH	VERY HIGH	EXCEPTIONAL HIGH
Jassar	50000 To 75000	75000 To 100000	100000 To 150000	150000 To 200000	200000 and Above
Ravi Syphon	40000 To 65000	65000 To 90000	90000 To 135000	135000 To 180000	180000 and Above
Shahdara	40000 To 65000	65000 To 90000	90000 To 135000	135000 To 180000	180000 and Above
Balloki	40000 To 65000	65000 To 90000	90000 To 135000	135000 To 180000	180000 and Above

4.2 TIME LAGS OF FLOODS

River	Site		Distance in Km	Time Lag in Hours
	From	To		
Ravi	Hajipur Gujran	Jassar	94	12
	Jassar	Ravi Syphon	73	18
	Ravi Syphon	Shahdara	24	8
Total Time Lag from Hajipur Gujran to Shahdara				38 Hours

4.3 HIGH FLOODS

S.#	Highest Floods	Discharge at Shahdara Railway Bridge	Discharge Through Breaching Section	Total Discharge
1.	1955	2,81,000 Cs	2,59,000 Cs	5,40,000 Cs
2.	1973	2,37,380 Cs	2,06,919 Cs	4,44,299 Cs
3.	1988	3,26,100 Cs	2,49,900 Cs	5,76,000 Cs
4.	1996	1,82,340 Cs	-	1,82,340 Cs

4.4 PEAK DISCHARGES

YEAR	JASSAR			RAVI SYPHON			SHAHDARA		
	DATED	GAUGE	DISCHARGE	DATED	GAUGE	DISCHARGE	DATED	GAUGE	DISCHARGE
1988	26-09-1988	791.00	121800	27-09-1988	715.70	325040	27-09-1988	694.70	576000
1989	31-07-1989	787.20	104818	01-08-1989	704.30	68702	01-08-1989	685.80	66985
1990	09-08-1990	782.00	46392	10-09-1990	703.30	59282	10-09-1990	684.80	52793
1991	11-08-1991	783.00	54975	12-08-1991	702.00	47582	12-08-1991	684.00	43163
1992	11-09-1992	789.60	148543	12-09-1992	704.50	80631	13-09-1992	684.80	62797
1993	11-07-1993	789.60	130740	13-07-1993	706.70	128188	14-07-1993	687.20	91415
1994	21-07-1994	791.70	173090	22-07-1994	706.20	101791	22-07-1994	685.90	54101
1995	05-09-1995	790.70	220800	06-09-1995	709.80	257000	07-09-1995	690.60	171520
1996	23-08-1996	788.80	151080	25-08-1996	708.40	196080	25-08-1996	689.40	182340
1997	26-08-1997	789.00	157600	30-08-1997	707.70	159200	30-08-1997	687.71	123080
1998	24-09-1998	783.80	35820	24-09-1998	703.80	56940	24-09-1998	684.50	58200
1999	20-08-1999	782.70	23620	21-08-1999	703.70	45200	11-08-1999	683.30	45000
2000	28-07-2000	783.70	34480	29-07-2000	704.10	39760	29-07-2000	683.20	51775
2001	15-08-2001	784.50	46100	15-08-2001	704.00	44100	16-08-2001	682.90	41000
2002	14-08-2002	785.80	69480	15-08-2002	703.80	42140	15-08-2002	682.50	37000
2003	04-08-2003	784.60	45135	05-08-2003	703.60	39963	05-08-2003	682.40	38763
2004	18-08-2004	782.70	30631	19-08-2004	703.70	37600	09-08-2004	681.80	32680
2005	08-07-2005	784.00	40200	08-07-2005	702.80	30720	09-07-2005	681.30	29130
2006	28-07-2006	783.50	36435	28-07-2006	702.20	26880	28-07-2006	680.50	23575
2007	30-06-2007	782.50	29272	30-06-2007	703.40	35200	01-07-2007	681.50	30550
2008	17-08-2008	783.50	36435	17-08-2008	703.00	32000	18-08-2008	681.70	31970
2009	29-07-2009	781.20	10080	30-07-2009	701.70	23920	30-07-2009	680.30	22205
2010	22-08-2010	782.50	13375	22-8-2010	702.40	41216	22-8-2010	679.50	41900
2011	14-08-2011	782.7	14070	14-08-2011	702.5	42320	14-08-2011	679.5	41900
2012	21-08-2012	782.8	26000	22-08-2012	702.3	40000	22-08-2012	679.3	39660
2013	16-08-2013	787.00	67700	18-08-2013	705.20	73551	18-08-2013	682.40	74880
2014	07-09-2014	787.00	67700	08-09-2014	705.70	93250	08-09-2014	682.70	91400
2015	16-08-2015	783.90	36070	18-07-2015	701.60	31000	19-07-2015	679.40	30000
2016	27-07-2016	782.00	25250	29-07-2016	701.50	45081	29-07-2016	678.70	44595
2017	02-08-2017	784.00	38004	02-08-2017	701.00	39853	20-07-2017	677.80	36258
2018	25-09-2018	786.20	66641	15-08-2018	700.70	37936	15-08-2018	677.90	37587
2019	18-08-2019	785.10	51000	19-08-2019	701.20	37885	16-08-2019	676.50	33228

CHAPTER – 5 **FLOOD FIGHTING STRATEGY**

Sub Divisional Officers and their staff would remain present and vigilant in the area round the clock during flood period. The flood information would be communicated by wireless, mobile phone or sent through special messenger employed for this purpose. In case of any emergency, the Sub Divisional Officer concerned would report the matter to the Executive Engineer, Lahore Drainage Division, Superintending Engineer, Lahore Drainage Circle, Chief Engineer, Irrigation Lahore Zone, Director Regulation, Chief Engineer, Drainage & Flood and Secretary Irrigation and Power Department, Punjab Lahore.

1. LOW FLOOD LEVEL STRATEGY:- (40000 Cs to 65000 Cs)

On receipt of any flood warning, Sub Divisional Officer Flood Bund and Kasur Sub Division will make necessary arrangements. Sub Divisional Officer, Flood Bund and Sub Divisional Officer Kasur alongwith their field staff will camp at spur No.1 at RD.2300 of Shahdara Flood Protection Bund and at Shahpur Kanjran spur respectively. It will be ensured that to cater for any emergency ample machinery will be available at camps of Shahdara Protection Bund and Sharkpur Flood Protection Bund during flood season. It will ensure protective measures for any emergency situation arises due to freshest from nullahs and unexpected rainfall ever in the catchment of River Ravi. Duty roster and detail of camps along Mahmood Booti Bund, Lahore Protection Bund, Shahdara Flood Protection Bund, Shahpur Kanjran, Chung Spur, and Sharakpur Flood Protection Bund is available in Chapter-9 Page-30 & 31.

2. MEDIUM FLOOD LEVEL STRATEGY:- (65000 Cs to 90000 Cs)

In case of medium Flood, if any erosion on any structure Flood fighting start with the help of establishment and Flood fighting material.

3. HEIGH FLOOD LEVEL STRATEGY:- (90000 Cs to 135000 Cs)

In case of High Flood, necessary arrangements for evacuation of affected people will be carried out by the Civil and Military authorities and the Engineering staff will remain busy in watching and protecting of the Flood Protection Works. The Lahore Division CBDC, Lahore will act as backup division once emergency is declared. All other Departments will have their own arrangements to provide help to the needy persons.

CHAPTER – 6

FLOOD DAMAGES / RESTORATION WORKS

OCCURRED DURING FLOOD 2019

-----NIL-----

CHAPTER – 7

FLOOD FIGHTING / WATCHING ARRANGEMENT

7.1 PRE-FLOOD ARRANGEMENT

9. Camping sites along the flood bunds at critical points will be declared and camps will be established over there.
10. Required flood fighting / watching material will be procured.
11. Procurement of stone to maintain the minimum limit of reserve stock will be ensured.
12. Information regarding earth moving machinery available in the local market will be gathered.
13. Site visits along with field formation to identify the most critical points and to develop consensus for course of action if such points / reaches become dangerous.
14. Arrangements will be made for the installation of base wireless station and mobile wireless sets in Government vehicles.
15. Total length of protection bunds will be divided into different beats and assigned duties of watching of flood protection works through gangs comprising regular and work charge establishment.
16. Special funds application based on estimated amounts of emergent works will be submitted.

STONE POSITION**Qty in Lac Cft**

S.#	Section / Site	Bund / Spur	Reserved stock limit as per yard stick	Exists at site as per stock register	Balance required Stone Qty
1	Shahdara				
	i)	T-Spur No.1	1.000	0.0475	0.9525
	ii)	T-Spur No.2	1.000	0.241	0.759
	iii)	T-Spur No.3	1.000	0.175	0.825
	iv)	T-Spur No.4	1.000	0.1455	0.8545
	v)	Hockey Spur No.5	1.000	0.5909	0.4091
	Total:-		5.000	1.1999	3.8001
2	Qadirabad				
	i)	J-Spur Qadirabad	1.000	0.2065	0.7935
	Total:-		1.000	0.2065	0.7935
3	Sharkpur				
	i)	J-Spur No.1	1.000	0.699	0.301
	ii)	T-Spur No.2	1.000	0.731	0.269
	iii)	Earthen Spur No.3	0.000	(-) 0.329	0
	iv)	T-Spur No.4	1.000	0.209	0.791
	v)	J-Spur No.5	1.000	0	1.000
	Total:-		4.000	1.639	2.361
4	Mehmood Booti				
	i)	Hockey Spur	1.000	0.129	0.871
	ii)	Sloping Spur	0.500	0	0.500
	Total:-		1.500	0.129	1.371
5	Lahore Protection Bund				
	i)	J-Spur No.1	1.000	0.0287	0.9713
	ii)	J-Spur No.2	1.000	0.004	0.996
	iii)	J-Spur No.3	0.000	(-) 0.106	0.000
	iv)	J-Spur No.4	1.000	0.718	0.282
	v)	T-Spur No.5	1.000	0.006	0.994
	Total:-		4.000	0.7567	3.2433
		Tie Bund			
	i)	J-Spur No.1	1.000	0.000	1.000
	ii)	L-Spur	0.500	0.000	0.500
	iii)	J-Spur No.2	1.000	0.000	1.000
	Total:-		2.500	0.000	2.500
6	Niaz Baig				
	i)	Shahpur Kanjran	1.000	0.219	0.781
	ii)	Mole & J-spur Chung	1.000	0.645	0.355
	Total:-		2.000	0.864	1.136
	G.Total:-		20.000	4.795	15.205

* The Factual situation of existing stone is already reported vide Executive Engineer Lahore Drainage Division Lahore No, 127/17-A Dated 22-02-2018. Estimate of Procurement of Reserve Stock of Stone has been prepared as per available funds and submitted to TPM for verification. After verification tenders will called and stone will be procured accordingly.

7.2 WATCHING ESTABLISHMENT

S.#	Particulars	Period	Coolies				Mates			Vulnerable Points	Extra Collies for Vulnerable Points	
			No of beats	No of Collies per beat*	No of shifts	Total No of Collies	No of mates per beat	No of shift	Total No of mates		Coolies	Mates
1	Normal days of floods	1 st June To 15 th October	20	4	1	80	1	1	20	4	20	5
2	Low Flood at Jassar 45000-75000 Cs	-do-	20	8	2	320	1	2	40	4	60	5
3	Medium flood at Jassar 75000-100000	-do-	20	8	3	480	1	2	120	8	120	10
4	High Flood at Jassar 100000-150000 Cs	-do-	20	10	3	600	2	3	120	8	120	10
5	Very High Flood at Jassar 150000-200000 Cs	-do-	20	15	3	900	2	3	120	10	150	15
6	Exceptionally high flood at Jassar 200000 above	-do-	20	20	3	1200	3	3	180	15	300	30

*1 beat = 10 RDs
= 10000 ft

ADDITIONAL ESTABLISHMENT

- | | |
|----------------------------|-------------------------------|
| 1) Chowkidar day and night | (2No per beat) = 2x20 = 40 No |
| 2) Gauge reader 3 shift | (1 No per shift)= 3x4 = 12 No |
| 3) Telephone attendant | (1 No per shift)= 3x4 = 12 No |

Justification:

Work charge establishment is needed in addition to regular establishment to combat the flood situation (shift duties). Therefore work charged watching establishment has been provided as per previous criteria.

7.3 ARRANGEMENT AT SENSITIVE SITES

Shahdara Flood Bund is the sensitive site due to breaching section close to it. Flood watching / fighting camp is provided over there with all logistics.

7.4 WATCHING MATERIAL

Total Quantity required against available quantity of different flood fighting / watching material for all flood fighting camps including sensitive sites are as below:-

S.#	Item	Unit	Total Quantity required	Quantity Available	Balance Quantity required	Remarks
1	Kassies / Belchas	No	80	80	-	Preparation of Estimate is under process and balance required material will be procured after due tendering process
2	handle of Kassies	No	80	70	10	
3	Toot Baskets	No	265	160	105	
4	Torches chargeable	No	600	-	600	
5	Torches (3- cell)	No	39	39	-	
6	Dry Cell	Dozen	19	19	-	
7	Bulb for Torches	No	6	6	-	
8	Axes	No	10	8	2	
9	Handle for axe	No	50	5	45	
10	Generator	No	2	1	1	
11	Electric wire 3/29 s/c	Coil	9	3	6	
12	Electric wire 7/29 s/c	Coil	3	3	-	
13	Insulation tape	No	18	0	18	
14	Bulb Holder	No	85	85	-	
15	Shouldaries	No	10	4	6	
16	Swiss cottage tent	No	1	1	-	
17	Darries	No	10	7	3	
18	Camp chair	No	36	24	12	
19	camp Table	No	5	4	1	
20	Buckets G.I	No	80	50	30	
21	Suttly Seiba	Bundle	5	1	4	

22	Life Jacket	No	18	12	6	Preparation of Estimate is under process and balance required material will be procured after due tendering process
23	Sounding Rod	No	4	1	3	
24	Long rubber shoes	Pair	22	22	-	
25	Emergency Lights	No	14	-	14	
26	Nylon Bags	No	7000	7000	-	
27	U-clamp 5/8" dia	No	100	100	-	
28	U-clamp 1/2" dia	No	60	50	10	
29	Water cooler	No	8	-	8	
30	Hand Umbrella	No	5	-	5	
31	Measuring tape 100'	No	5	5	-	
32	Manila rope	Rft	200	200	-	
33	Steel wire rope 1/2" dia	Rft	3000	200	2800	
34	Fiber glass boat	No	2	1	1	
35	Bamboo 2 1/2" dia 8-10 ft long with one end sharp	No	1000	20	980	
36	Digital Camera	No	3	-	3	
37	G.I.Wire Crates	No	58	58	-	
38	Hammer Heavy	No	5	3	2	
39	Wrench	No	7	3	4	
40	Pliers	No	6	3	3	
41	Umbrella 10'	No	1	0	1	
42	Gas lamp	No	6	6	-	
43	Lantern	No	50	50	-	
44	Energy Saver 45w	No	100	-	100	
45	Jute bags	No	2000	2000	-	
46	Electric Bulb 100 W	No	100	70	30	
47	Electric Bulb 500 W	No	50	40	10	
48	Electric Switch	No	60	60	-	
49	Geo synthetic bags 500 kg	No	5000		5000	
50	Geo Synthetic Bags 1000 kg	No	5000	-	5000	
51	Geo Sheet	Rft	15000	-	15000	
52	Pegs	No	500	-	500	
53	Charpaye Iron	No	25	-	25	
54	Search Light	No	12	-	12	
55	Petrol chain saw	No	6	-	6	
56	Digital video camera	No	2	-	2	
57	Fiber Glass Boat with Petrol engine	No	2	-	2	

Flood Fighting Material required on Flood Bunds (except vulnerable sites)

S.#	Item	Unit	Quantity required	Quantity Available	Balance Quantity required	Remarks
1	Kassies / Belchas	No	20	20	-	Preparation of Estimate is under process and balance required material will be procured after due tendering process
2	handle of Kassies	No	60	50	10	
3	Toot Baskets	No	130	25	105	
4	Torches chargeable	No	600	-	600	
5	Torches (3- cell)	No	14	14	-	
6	Dry Cell	Dozen	11	11	-	
7	Bulb for Torches	No	4	4	-	
8	Axes	No	2	-	2	
9	Handle for axe	No	45	-	45	
10	Generator	No	1	-	1	
11	Electric wire 3/29 s/c	Coil	7	1	6	
12	Electric wire 7/29 s/c	Coil	3	3	-	
13	Insulation tape	No	6	-	6	
14	Bulb Holder	No	30	30	-	
15	Shouldaries	No	8	2	6	
16	Swiss cottage tent	No	1	1	-	
17	Darries	No	3	-	3	
18	Camp chair	No	24	12	12	
19	camp Table	No	3	1	1	
20	Buckets G.I	No	35	5	30	
21	Suttly Seiba	Bundle	5	1	4	
22	Life Jacket	No	6	-	6	
23	Sounding Rod	No	3	-	3	
24	Long rubber shoes	Pair	6	6	-	
25	Emergency Lights	No	9	-	9	
26	Nylon Bags	No	5000	5000	-	
27	U-clamp 5/8" dia	No	-	-	-	
28	U-clamp 1/2" dia	No	10	-	10	
29	Water cooler	No	4	-	4	
30	Hand Umbrella	No	4	-	4	

31	Measuring tape 100'	No	1	1	-	Preparation of Estimate is under process and balance required material will be procured after due tendering process
32	Manila rope	Rft	200	200	-	
33	Steel wire rope 1/2" dia	Rft	2800	-	2800	
34	Fiber glass boat	No	1	-	1	
35	Bamboo 2 1/2" dia 8-10 ft long with one end sharp	No	980	-	980	
36	Digital Camera	No	2	-	2	
37	G.I.Wire Crates	No	58	58	-	
38	Hammer Heavy	No	5	3	2	
39	Wrench	No	5	1	4	
40	Pliers	No	4	3	1	
41	Umbrella 10'	No	1	0	1	
42	Gas lamp	No	-	-	-	
43	Lantern	No	45	45	-	
44	Energy Saver 45w	No	100	-	100	
45	Jute bags	No	2000	2000	-	
46	Electric Bulb 100 W	No	100	70	30	
47	Electric Bulb 500 W	No	50	40	10	
48	Electric Switch	No	60	60	-	
49	Geo synthetic bags 500 kg	No	5000	-	5000	
50	Geo Synthetic Bags 1000 kg	No	5000	-	5000	
51	Geo Sheet	Rft	15000	-	15000	
52	Pegs	No	500	-	500	
53	Charpaye Iron	No	25	-	25	
54	Search Light	No	12	-	12	
55	Petrol chain saw	No	6	-	6	
56	Digital video camera	No	2	-	2	
57	Fiber Glass Boat with Petrol engine	No	2	-	2	

7.5 ARRANGEMENT FOR SOUNDING & PROBING

It is available at Shahdara Flood Watching Camp at RD.2300 of Shahdara Flood Protection Bund.

7.6 LIGHTING ARRANGEMENT

Two Nos of generators with the capacity of 2 KVA each, are available in case of non-availability or failure of electricity at Shahdara Flood Watching Camp at RD.2300.

7.7 RATION ARRANGEMENT

Ration would be made available at site as per Government policy.

7.8 POL ARRANGEMENT FOR VEHICLES

POL for vehicle will be made available from existing funds under the head of POL. In case of any shortage of funds in POL. The expenditure shall be met with embankment funds to cater for emergency.

7.9 TRANSPORTATION

All Government vehicles are in good running condition to perform flood duty.

7.10 LAW AND ORDER

It is the responsibility of local police. Close contact / liaison will be ensured with the civil administration.

7.11 MEDICAL ARRANGEMENT FOR LABOUR

First Aid / medicine boxes would be arranged at site by the Health Department along with other measures.

7.12 LIAISON WITH OTHER DEPARTMENTS

It would be ensured telephonically through official land line and private mobile numbers. The department liaison officer will be notified before the coming flood season.

7.13 ROLE OF THE ARMY

Besides arrangements of watching staff by Irrigation Department, additional volunteers will be requisitioned if needed from the army on special request. They will also take position for the rescue of the persons and live stock of flood affected areas on request of the Department.

7.14 DUTIES OF TELEPHONE ATTENDANT

He will record daily discharges at various control points and convey important information and messages etc 24 hours during flood season.

7.15 WIRELESS ARRANGEMENTS

Mobile wireless in Government vehicles would be installed during flood season. The requisition in this regard will be initiated.

CHAPTER – 8

DETAIL OF ENCROACHMENTS

There are encroachments inside the river along right as well as left side of River. On the left bank of the river Ravi, encroachments have developed inside the flood bunds all along the Mahmood Booti Bund and the Lahore Protection Bund. The workshops and small factories have developed along-with pacca houses within the river training works, which would create an alarming situation in case a medium flood passes downstream of Ravi Syphon. Other departments have provided facilities of electricity, telephone and sewerage to the inhabitants within the bunds area making things bad to worse. The list of Encroachment has already been circulated to Civil Administration to help the Department to remove these encroachments. The detail of encroachment including its type i.e. houses, shops and factories etc is attached herewith on next pages.

ENCROACHMENT ON BUNDS AND SPURS

S.#	Name of Encroacher	Location Bund / Spur (Pushta) R.D	Nature Of Encroachment
1	Nazir Ahmad, Haji Riaz and Sadiq Changhar etc	Spur No.4 at RD.2500 to 4000	Illegal laying of sewer pipe in the toe of spur
2	Malik Asad.	T spur No.4 of Lahore Protection bund RD.4000	illegal cutting of ramps / pitching
3	Unknow	T spur No.4 & 5 of Lahore Protection bund	illegal construction of Truck stand for goods
4	Unknow	T spur No.1 Mohammadia colony Gaoshala	illegal construction of Truck stand for goods
5	Nizami Motors	Spur No.1 at RD.1490 head Lahore Protection Bund	illegal construction of Truck stand for goods
6	Tanveer Tahir	Sharkpur Flood Protection Bund/T Spur No 4 R.D 26+860	Illegal construction of Tubewel on head.
7	Contractor of Mineral Department.	Lahore Protection Bund between Spur No 4 & 5	Illegal sand mining.
8	Contractor of Mineral Department.	Lahore Protection Bund between saggian and motorway bridges	Illegal construction of bunds for sand mining.
9	Malik Talib & Malik Alam	Spur No.5 Lahore Protection Bund R.D 5500 Head	Illegal water pump.
10	Malik Asad.	Spur No. 4 Lahore Protection Bund R.D 3400/L	Illegal construction
11	Malik Tahir.	Spur No 4Lahore Protection Bund R.D 3500/L	Illegal construction
12	Local Zamindars	Sharakpur Flood Protection Bund & its allied spurs.	Illegal cutting of ramps
13	Contractor of Mineral Department.	Shahdara Flood Protection Bund Spur No 4	Illegal cutting of ramps for sand carriage.
14	Malik Tahir & others.	Shahdara Flood Protection Bund Spur No 4 R.D 0-1	Illegal cutting of ramps for sand carriage
15	Malik Tahir	Spur No 2 of shahdra Flood Protection Bund T-head	Illegal obstruction of Bund

S.#	Name of Encroacher	Location Bund / Spur (Pushta) R.D	Nature Of Encroachment
16	Malik Safdar	Spur No 5 of Lahore Protection Bund RD 4+000-4600	Illegal laying of sewer
17	Malik Alam	Spur No 5 of Lahore Protection Bund RD 5+000 L/S	Excavation of earth/sand
18	Malik Alam	Spur No 5 of Lahore Protection Bund RD 5+000 R/S	Storage of sand
19	Abid Hussain	Spur No 5 of Lahore Protection Bund RD 5+000 L/S	Illegal installation of water pump & khurli
20	Haji Mustafa/Dr Shaheen	Spur No 5 of Lahore Protection Bund RD 2+000 R/S	Illegal Construction of Dera & house
21	Mohammad Arshad	Spur No 5 of Lahore Protection Bund RD 3+000 R/S	Illegal Construction of boundary wall
22	Haji Mohammad Ali	Spur No 5 of Lahore Protection Bund RD 5+000 R/S	Illegal Construction of wall & house
23	Ashfaq	Spur No 5 of Lahore Protection Bund RD 2+000 L/S	Illegal Construction of hotel
24	Unknown	Spur No 5 of Lahore Protection Bund RD 1+000 R/S	Illegal Construction of hotel
25	Asim Raza	Spur No 5 of Lahore Protection Bund RD 1+000 L/S	Illegal Construction of hotel
26	Rana Mohammad Iqbal	Spur No 5 of Lahore Protection Bund RD 4+500	Illegal storage of Glass & garbage
27	Mohammad Nawaz	Spur No 5 of Lahore Protection Bund RD 3+500 L/S	Illegal storage of material
28	Mineral Department	Between Spur No 4 & 5 of Lahore Protection Bund RD 5+000	Excavation of earth/sand
29	Mehar Akhtar	Spur No 1 of Lahore Protection Bund RD 1+000	Illegal Construction of boundary wall
30	Sufi Mohammad	Spur No 1 of Lahore Protection Bund RD 1+000	Illegal Construction of hotel
31	Haji Mushtaq	Spur No 1 of Lahore Protection Bund RD 0+500	Illegal Construction goods stand

S.#	Name of Encroacher	Location Bund / Spur (Pushta) R.D	Nature Of Encroachment
32	Muhammad jamil	Spur No 1 of Lahore Protection Bund RD 0+500	Illegal Construction of boundary wall
33	Mian Abbas	Spur No 1 of Lahore Protection Bund RD 0+500	Illegal Construction/Occupation of Govt land
34	Malik Farhat Abbas	Lahore Flood Protection Bund spur No.J-2 (Tie Bund) R.D 4+000 R/S	Illegal exeavation of earth from Govt Land
35	Unknown Persons	Spurs of Shahdara Flood Protection Bund	Illegal Making way for Tractor Trollies.
36	Shafat Ali, Ch: Karamat, Muhammad Munir, Muhammad Javwed and Others.	Shahdara Flood Protection Main Bund & spurs	Illegal Construction of Ramp by cutting Bund/Slops
37	Unknown Persons	Saggian Bridge River Ravi / R	Illegal Construction of Bund Near Saggian Bridge.
38	Muhammad Azhar	Lahore Flood Protection Bund Spur No.4 RD.1000/L	Illegal instalation of Sewarage Pipe top of Bund.
39	Muhammad Naeem	Lahore Flood Protection Bund Spur No.5 RD.2500/L	Illegal Construction of House.
40	Mohammad Ramzan S/O Kasam Gujjar	Lahore Flood Protection Bund Spur No.2 RD.3500/R, Spur No1 RD.1500/L	Obstruction on bund for catteles
41	Jamshad Iqbal	Lahore Flood Protection Bund Spur No.2 (Head Portion)	Damaged Pusta No.2
42	Unknown Persons	Shahdara Flood Protection Bund spur No.5 RD.9500	Illegal Cultivation of Govt. Land/cuts of slope/Bund.
43	Dad Muhammad Khan	Lahore Flood Protection Bund Spur No.5 RD.750/R	Illegal Occupation/Construction.
44	Jamshad Bao	Lahore Flood Protection Bund Spur No.2 RD.2800/R	Illegal Construction of Ramp on spur No.2.
45	Bodha Gujjar, Mushtaq Gujjar etc.	Lahore Flood Protection Bund Spur No.4 RD.2900-3000	Illegal occupation of Govt: Land.
46	Mineral Department	Right Bank of River Ravi Downstream Saggian Bridge	Illegal obstruction of river bed
47	Unknown	Lahore Flood Protection Bund Spur No.5 RD.4500/L	Illegal Construction

S.#	Name of Encroacher	Location Bund / Spur (Pushta) R.D	Nature Of Encroachment
48	Unknown	Lahore Flood Protection Bund Spur No.5 RD.2500/R	Illegal Construction
49	Mohammad Majed,Abdul Rasheed	Shahdara Flood Protection Bund RD.4-5/L	Illegal Construction of Room
50	Mian Goga,wali Mohammad,abbas Khan Jaffar,Mohammad Maqbool,SyedIftikhar Shah, Allha Ditta,Mohammad Shari,Malik Zaheer,Mohammad Younis,Mohammad Zaka,lal Hussain,Malik Mohammad Akram,Mohammad Basheer(D/S of siggian bridge)Billa Khan,jaan Gul khan,Rehman khan,Fiaz,chand khan,Amanat khan,Ahmad shah khan,Dogar,Ghulam Rasool,Arif,Babar Bhatti,Haji Khizar,Malik Nawaz,Hakim Ali,Malik Sarwar,Sajjad(U/S of siggian Bridge)	Lahore Flood Protection Bund Downstream Saggian Bridge	Illegal Construction
51	Mian Goga,wali Mohammad,abbas Khan Jaffar,Mohammad Maqbool,SyedIftikhar Shah, Allha Ditta,Mohammad Shari,Malik Zaheer,Mohammad Younis,Mohammad Zaka,lal Hussain,Malik Mohammad Akram,Mohammad Basheer	Lahore Flood Protection Bund Downstream Saggian Bridge	Illegal Construction
52	Mohammad Akbar,Kala Mistry,Munshi khan,lal khan,Mohammad Rafique,Mohammad Hussain,Jaffar Hussain,Aziz khan,zafar khan,shan khan,Labha	Lahore Flood Protection Bund Spur No.5 R.D 0+000 To 3+000	Illegal obstruction of Bund
53	Haji Nazir	Lahore Flood Protection Bund Spur No.1 R.D 1+000 R/S	Illegal Construction
54	Shoukat Ali	Lahore Flood Protection Bund Spur No.4 R.D 0+300 R/S	Illegal Construction
55	Mohammad Mushtaq	Lahore Flood Protection Bund Spur No.5 R.D 4+500	Illegal Construction
56	Munir jutt,Mubarak jutt	Lahore Flood Protection Bund spur No.J-2 (Tie Bund)R.D 4+500	Illegal occupation of Govt Quarter
57	Abdul Sattar khan	Lahore Flood Protection Bund spur No.J-2 (Tie Bund) R.D 4+500	Illegal occupation of Govt Quarter

S.#	Name of Encroacher	Location Bund / Spur (Pushta) R.D	Nature Of Encroachment
58	Unknown	Lahore Flood Protection Bund Downstream Saggian Bridge	Illegal Bund
59	Billa,Arshad,Sharif,Mian jawed,Mairaj Din,Labha Gujjar ,noni, Kanwar Din Nadeem ,Afzal,Chiragh,Irfan,Saleem,Manaha,Bahadar ,Goga ,Muhamad Rafiqe,Bashir,Javed,Amanat Ali,Muhammad Asif,Haji muhammad Sharif,Muhammad Ramzan,Umar,Jajhi,Inyat ,Muhammad Younas,Muhammad Sadiq, Asghar Ali,Muhammad Aslim ,Malik Akbar,Mlik kala,Malik Liaqat Ali,Bagha,Mian Javed,Mian Iqbal,Mairge Din,Babar ,Amjad,Riasat,,Sohny,Amjad,Shahbaz,Goga,Malik Ramzan,Jajah Shah,Sadiq,Riaz,Bashir,Lal Din Dar,Muhammad Sharif,Muhammad Latif ,Liaqat Ali,.Ibrahim,Haji Sajid,Haji Qadir,Muhammad Rafiq,mUHAMMAD hANIF Haji yasseen,Mubarak Ali,Malik Asharaf,Abdulghafoor,Muhammad Rafiq,Haji Taj,Noor Muhammad, Malik Jamil,Muhammad Latif,Safdar Ali,Sher Muhammad,Malik Shakeel,CH Hayat,Niamat Ali,	Shahdara Flood Protection Bund RD.0-10000	Illegal Construction/Occupation of Shahdara Flood Protection Bund
60	Billa,Arshad,Sharif,Mian jawed,Mairaj Din,Labha Gujjar ,noni, Kanwar Din Nadeem ,Afzal,Chiragh,Irfan,Saleem,Manaha,Bahadar ,Goga ,Muhamad Rafiqe,Bashir,Javed,Amanat Ali,Muhammad Asif,Haji muhammad Sharif,Muhammad Ramzan,Umar,Jajhi,Inyat ,Muhammad Younas,Muhammad Sadiq, Asghar Ali,Muhammad Aslim ,Malik Akbar,Mlik kala,Malik Liaqat Ali,Bagha,Mian Javed,Mian Iqbal,Mairge Din,Babar ,Amjad,Riasat,,Sohny,Amjad,Shahbaz,Goga,Malik Ramzan,Jajah Shah,Sadiq,Riaz,Bashir,Lal Din Dar,Muhammad Sharif,Muhammad Latif ,Liaqat Ali,.Ibrahim,Haji Sajid,Haji Qadir,Muhammad Rafiq,mUHAMMAD hANIF Haji yasseen,Mubarak Ali,Malik Asharaf,Abdulghafoor,Muhammad Rafiq,Haji Taj,Noor Muhammad, Malik Jamil,Muhammad Latif,Safdar Ali,Sher Muhammad,Malik Shakeel,CH Hayat,Niamat Ali,	Shahdara Flood Protection Bund RD.0-10000	Illegal Construction/Occupation of Govt land

S.#	Name of Encroacher	Location Bund / Spur (Pushta) R.D	Nature Of Encroachment
61	Mohammad Shoukat, Mohammad Ashraf,haji Munir,kala gujjar,patthan taal wala,Mughal Sb,Mohammad Siddque,Sher Khan,Bhatti,Sh.Ahmad Din,Malik Brothers,Nadeem,pehlwan hotel wala, jaffar Khan,Allah Tawakal Building store, Moulvi Sardar,Rana Mohammad Iqbal,Malik Khadam.	Lahore Flood Protection Bund Spur No.5 RD 0+000 to 4+000	Illegal Construction/Occupation of Govt land
62	Malik Akhtar,Mehar Sadiq,Nadeem,Malik Aslam,Iftikahr,Jabbar,Haji Mill wala,Nazir,Riasat,Bao Gujjar,Bao tali,Ch Khadam,Bao Ghaman,Haji Arshad,Dilshad Ghaman,Munir Shopping Baig,Abdullah,Abdullah,Aslam,Umer Hayat,Siddique,Basheer,Haji Billa Gujjar,Amin,Ashraf,Maqsood,Ashraf Gujjar,Shafaq,Ilyas Gujjar,Abbas Gujjar,Adress,Ch labbaha Bajwa,Haji Acid Fectory.	Mehmood Booti Bund RD.0-29300 R.D 0+000 -1+000 &2+000- 2+800	Illegal construction on slopes of spur
63	Baba Anyat Ali	Lahore Flood Protection Bund spur No.J-2 (Tie Bund) R.D 4+500	Illegal occupation of Govt Quarter
64	Mohammad Sharif	Shahdara Flood Protection Bund RD.11000-11500	Illegal construction of wall
65	Mohammad Sharif	Shahdara Flood Protection Bund RD.11000-11500	Illegal construction of wall
66	Mohammad Sharif	Shahdara Flood Protection Bund RD.11000-11500	Illegal construction of wall
67	Malik Shoukat Ali	Lahore Flood Protection Bund Spur No.5 R.D 2+500 R/S	Illegal occupation of Govt Land
68	Mohammad Sharif	Shahdara Flood Protection Bund RD.11000-11500	Illegal construction of wall for factory
69	Mohammad Nazir Mehar	Lahore Flood Protection Bund Spur No.5 R.D 1+600	Illegal occupation of Govt Land
70	Mr Jaffar Khan	Lahore Flood Protection Bund Spur No.5 R.D 2+100	Illegal occupation of Govt Land
71	Nazir Ahmad	Lahore Flood Protection Bund Spur No.5 R.D 4+000	Illegal occupation of Govt Land

S.#	Name of Encroacher	Location Bund / Spur (Pushta) R.D	Nature Of Encroachment
72	Asif Material store & Rana Mohammad Iqbal	Lahore Flood Protection Bund Spur No.5 R.D 3+000	Illegal occupation of Govt Land
73	Abdul Aziz Khan	Lahore Flood Protection Bund Spur No.5 R.D 2+500 R/S	Illegal construction of wooden tall
74	Mohammad Ali Gujjar,Baba Munir Hussain,Haji Mohammad Anwar,Malik Mohanmmad Tufail,Sh Tariq,Mohammad Ashraf,Dr Zulfiqar,Wasa,Mohammad Farooq Gujjar,Mohammad Amin,Ch Khadam ali,Abdul khalid/Mohammad Arif,abbas Khan,Gujjar Khan,Nawaz Khan,Malik Waseem/Malik Sajjad,Malik Nawaz,Mohammad Aslam Sial,Tahira Firdous,Saeed Butt,Chacha Jawed,Mohammad Saeed Bhindhar,Mohammad Baseer,Mian Sajjad,Bao Saleem,Ruby Oil,Mian Raees,Munawar hasan,Meero Khan,Mohammd Nawaz,Haji Abdul Rauf,Malik Shezad,Haji Sher Afzal,Wasa,Malik Aman-ul-llah,Mezar Umer Saeed,Haji Ghulam Nabi,Mohammad Asghar Khan,Haji Ahmad Ali,Haji Mohammad Arshad,Khalid Mehmood,Mohammad Latif,Haji Mohammad Rafique,Mohammad Nawaz/Momin Khan,Malik Abbas,Bagha,Zafar Khan,Shamim Bashrat,Haji Mohammd Ayub,Zaheer Sb,Rana Basheer Ahmad,Grave Yard,Mezar Jagheer,Jammal,Mian Riaz/Abdul Rehman,Mian Tariq,Azam Gujjar,Masood Steel industry,Anyat Pipe industry,Mian Liaqat Pak Eastern Engineering,Ashfaq,Mumtaz Filling Station,Abdul Majeed,Mohammad Ghafoor/Mohammad Munzoor,Mohammad Shafique,Haji Mohammad Anees,Mohammad Ibrar,Mohammad Yousuf,Haji Habib,Mohammad Saleem,Fiaz Steel Fectory,Haji Ayub Shah,Sh Irfan,Haji Umer,Mian Naveed,Haji Mohammad Latif,Mohammad Khalid/Mohammad Sajjad,Mian Shehbaz/Mian Arif,Haji Morad,Sewrage Station,Municipal Land,Inam Butt,Tubewell Wasa No 5,Mohammad Tufail,Muzafar Brothers,Waheed Bhatti,Tubewell wasa No 4,Mohammad Ayub,Tubewell wasa No 1,Iftikhar Ahmad,Mohammad Yaqoob,Mohammad Jahanghir,Mohammad Jamil,Mohammad Waheed,Mohammad Akram,	Mehmood Booti Bund RD.0-29+300	Sr # 1-40 illegal Construction of house,dera,oil store,hotel,tubewell,shop,house,store pipe,godown factory,markets,oil store,press factory Sr # 14-74 Illegal construction of sewerage drain by wasa,house,oil store,brick depot,wooden store,pipe factory,machinry godwen,nurcery,hotel,workshop,grave yard,steel factory,plot foundation,Sr # 75-83 Illegal construction of factories,steel industries,petrol pump,markets,pipe ,residential house,girder factory,oil store,estate agency,Sr # 100-117 sewerage drain,umraha office,residential houses,

S.#	Name of Encroacher	Location Bund / Spur (Pushta) R.D	Nature Of Encroachment
75	Mohammad Basheer	Lahore Flood Protection Bund Spur No.5	Illegal occupation of Govt Land
76	Mohammad Shoukat, Mohammad Ashraf,haji Munir,kala gujjar,patthan taal wala,Mughal Sb,Mohammad Siddque,Sher Khan,Bhatti,Sh.Ahmad Din,Malik Brothers,Nadeem,pehlwan hotel wala, jaffar Khan,Allah Tawakal Building store, Moulvi Sardar,Rana Mohammad Iqbal,Malik Khadam.	Lahore Flood Protection Bund Spur No.5	Sr # 1-3 Hotel,workshop,wooden tall,Sr # 5-9 Building material wooden tall grocery store Sr # 10-22 Building material,Boring house,paan shop,weight machine and cattle fooder,building store,hotel,Plastic shop,Sr # 23-25 estate agency,stock of stone
77	Mohammad safdar	Lahore Flood Protection Bund Spur No.5	Illegal construction of road for tractor trollies
78	Mohammad Jamsheed	Lahore Flood Protection Bund Spur No.5 R.D 4+000	Illegal occupation of Govt Land
79	Gamma Gujjar,Hanif Gujjar,Bodha Gujjar	Lahore Flood Protection Bund Spur No.4	Cattle form
80	Mohammad Shiukat,Mohammad Ashraf,Haji Munir,Kala Gujjar,Pathan Taal Wala Mughal,Mohammad Siddique,Sher Khan,Bhatti,Sh:Ahmed Din,Malik Brothers,Nadeem Pehlwan Hotel Wala,Jaffer Khan Allah tawaakal Building store,Molvi Sardar,Rana Mohammad Iqbal,Malik Khadam.	Lahore Flood Protection Bund Spur No.5	Sr # 1-3 Hotel, workshop, wooden tall,Sr # 5-9 Building material wooden tall grocery store Sr # 10-22 Building material, Boring house, paan shop, weight machine and cattle fooder, building store, hotel, Plastic shop,Sr # 23-25 estate agency, stock of stone
81	Mohammad Bashir	Lahore Flood Protection Bund Spur No.5	Illegal occupation of Govt Land
82	Mohammad Jamshed	Lahore Flood Protection Bund Spur No.5 R.D 4+000 R/S	Illegal Construction of wall By cutting spur slope 5'
83	Muhammad Abass	Lahore Flood Protection Bund Spur No.5	Illegal Construction of wall in spur lands about 15' wide.

S.#	Total Encroachment	Removed	Remaining	Remarks
1	93	10	83	Written to District Administration

Critical Encroachments

S.#	Total Encroachment	Removed	Remaining	Remarks
1	-	-	-	-

CHAPTER – 9
DUTY ROSTER BATTLE STATIONS OF KEY
PERSONNEL DURING HIGH FLOOD FLOW

S.#	Designation	Camping Station	Duty
1.	Executive Engineer, Lahore Drainage Division, Lahore.	At XEN Office Lahore Mustafabad Lahore Ph: No.042-99250327	He will be the overall in charge of Lahore Drainage Division and will keep close contact with his staff and District Administration. He will also act as per flood situation keeping liaison with all concerned Departments related with flood activities.
2.	Sub Divisional Officer, Flood Bund Sub Division, Lahore.	At Shahdara Hut No.1 RD.2300, of Shahdara Flood Protection Bund.	To monitor flood situation in River Ravi and keep watch on flood protection / River Training works of Shahdara, Mahmood Booti, Qadirabad and Lahore Protection section
3.	Sub Divisional Officer, Kasur Drainage Sub Division, Lahore.	Shahpur Kanjran spur.	To monitor flood situation in River Ravi and keep watch on flood protection / River Training works in Niaz Baig section.

DUTY ROSTER / FLOOD FIGHTING PROGRAMME

The section wise breakup of the bunds / spurs is given below:-

Sr. #	Sub Engineer Section	Reach	Sub Division	Head quarter of Sub Engineer and location of stacking site of material.
1.	Mahmood Booti Section	Mahmood Booti Bund RD.0-29000 with spurs.	Flood Bund Sub Division, Lahore.	Remain Present in his Jurisdiction or where needed as defined by SDO.
2.	Lahore Protection Bund Section	Lahore Protection Bund RD.0-23000 and spurs. Tie bund R.D 0-20000 and spurs.	-do-	Remain Present in his Jurisdiction or where needed as define by SDO
3.	Shahdara Section	Shahdara Flood Protection Bund and spurs.	-do-	Camp at Hut No.1 RD.2300 Shahdara F.P.Bund.
4.	Qadirabad Section	J-spur Qadirabad. 3 No sloppy spurs of Farkhabad & Diversion Bund at Qadirabad.	-do-	Remain Present in his Jurisdiction or where needed as define by SDO
5.	Sharakpur Section	Sharakpur F.P. Bund and its spurs.	-do-	Camp at Sharakpur F.P.Bund RD.32060
6.	Niaz Baig Section	J-head spur at Shahpur Kanjran, Chung	Kasur Drainage Sub Division	Remain Present in his Jurisdiction or where needed as define by SDO

CHAPTER – 10

EMERGENCY TELEPHONE NUMBERS

S.#	Description of Department	Office Tel. No	Residence / Mobile Tel No.
1	Flood Control Cell (Irrigation Department)	99212134	-
2	Secretary Irrigation Department	99212117-18 Fax No.9212116	99212116
3	Flood Emergency center (Lahore Drainage Division)	99250326 99250327	-
4	Chief Engineer, Irrigation Lahore Zone, Lahore	99212085-86	0301-8448709
5	Superintending Engineer, Lahore Drainage Circle, Lahore	99250306	0300-6421863
6	Chief Engineer Drainage & Flood	99230602	
7	Director Flood	99231614	
8	Flood Forecasting Center 99205367-8 , 99205369-70, 99205157-8	99205371-72	-
9	Canal Telegraph office Mustafa Abad	99250318	-
10	Executive Engineer, Rachna Drainage Division, Sheikhpura	056-9200250	0321-9485218
11	District Coordinator Officer (DCO) Sheikhpura	056-9200151	99200153
12	Brig 4-Core Munir Road Lahore Cantt:	6699-3817	-
13	D.C.O Lahore	99211003-4	99200232
14	Assistant Commissioner City Lahore	99210608	-
15	Executive Engineer, Lahore Drainage Division	99250326-27	0332-5543633
16	SDO/River Survey Drainage Sub Division, LHR	99250326-27	0302-9618608
17	SDO / Kasur Drainage Sub Division, Lahore	99250326-27	0336-7483066
18	SDO/Flood Bund Sub Division, Lahore	99250326-27	0347-6104059
19	SDO/Lahore Drainage Sub Division, Lahore	99250326-27	0345-4920391
20	Flood Cell committee room of I&P Secretariat, Lahore	99212134	-
21	Flood watching camp at Shahdara Flood Protection.	042-36142233	-
22	District Emergency Officer	99231717, 1122	-
23	Provincial Disaster Management Authority	042-99203301	-
24	Executive Engineer CBDC Division Lahore	99250194	0300-4017310
25	Executive Engineer Chakbandi Division Lahore	99250312	0322-4486727

LIST OF OFFICERS / OFFICIALS OF LAHORE DRAINAGE
DIVISION LAHORE

S.#	Name of Officer / Official	Designation	Sub Division / Section	Mobile No.
	Syed Ali Hasnain	Sub Divisional Officer	Flood Bund Sub Division Lahore	0347-6104059
1	Naveed Shehzad	Sub Engineer	Shahdara	0307-4428758
2	Abdul Ghaffar	Sub Engineer	Sharkpur	0304-0596078
3	Ali Ejaz	Sub Engineer	Mehmood Booti Bund	0324-4606826
4	Abdul Ghaffar	Sub Engineer	Lahore Protection Bund	0304-0596078
5	Abdul Ghaffar	Sub Engineer	Qadirabad	0304-0596078
6	Muhammad Ramzan	SDC	Flood Bund	0307-4783695
	Muhammad Ramzan Bhutta	Sub Divisional Officer	River Survey Drainage Sub Division Lahore	0302-9618608
1	Vacant	Sub Engineer	Lilliani	-
2	Muhammad Bilal	Sub Engineer	Bhai Pheru	0308-4822408
3	Vacant	Sub Engineer	Mall	-
4	Muhammad Umair	Sub Engineer	Ibrahimabad	0305-7669904
5	Vacant	Sub Engineer	Chathianwala	-
6	Habib-Ur-Rehman	Sub Engineer	Rukhanwala	0333-4849378
7	Vacant	Sub Engineer	Jamman	
8	Muhammad Aslam		Sub Divisional Clerk	0307-4259355
	Najam Waheed Qureshi	Sub Divisional Officer	Lahore Drainage Sub Division Lahore	0345-4920391
1	Saleem Ashraf	Sub Engineer	Ali Raza Abad	0333-4974372
2	Hashim Raza	Sub Engineer	Charrar	0302-3370824
3	Malik Bilal	Sub Engineer	Khana	0335-6634354
4	Iftkhar saleem	Sub Engineer	Barki	0333-4312908
5	Muhammad Ijaz	Sub Engineer	Bhasin	0332-8369506
6	Sajjad Ahmed		Sub Divisional Clerk	0300-9648076

	Usman Ali Khan	Sub Divisional Officer	Kasur Drainage Sub Division Lahore	0336-7483066
1	Azam Ali	Sub Engineer	Niaz Baig	0322-7218487
2	Shahid Sultan	Sub Engineer	Manga	0300-4429808
3	Ahsan Maqsood	Sub Engineer	Raiwind-II	0307-8500254
4	Syed Qasim Raza	Sub Engineer	Raiwind-I	0313-3356484
5	Ahsan Maqsood	Sub Engineer	Raiwind-III	0307-8500254
6	Tahir Hussain		Sub Divisional Clerk	0333-42681493

CHAPTER – 11

STANDARD OPERATING PROCEDURE(SOP) FOR BREACHING SECTIONS

11.1 HISTORY OF THE BREACHING SECTION

There is an approved breaching section between RD.55+000 to 65+000 of Shahdara Distributory Flood Bund. The critical R.L. 698.00 for the operation of this breaching section will be monitored on the gauge fixed at RD.15+150 of Shahdara Flood Protection Bund. It is estimated that a discharge of about 1.0 Lac Cs. will pass through the breaching section, if operated. This breaching section was operated twice after 1947 i.e. during 1955 and 1988.

There is densely populated area just downstream side of the breaching section. The operation of breaching section has to be done very carefully with prior warning to the inhabitants of the area. Heavy building, infrastructure and life losses occurred when this breaching section was operated during 1988 flood as the area is thickly populated. The other option is to enhance the waterway under Shahdara Railway Bridge and Road Bridge (old) adjacent to the Railway Bridge, so that the situation for operation of the breaching section could be averted in future.

Location of breaching Section and strategy to activate Breaching Section.

- Location of approved breaching section RD.55+000 to 65+000
(Shahdara Distributry flood protection Bund)
- Location of critical gauge Critical gauge is fixed at
RD.15150 of Shahdara
Flood Bund.

11.2 LOCATION, DESIGN, QUANTITY AND VARIETY OF THE EXPLOSIVE REQUIRED FOR DETONATION.

Relates to Gujranwala Division, UCC as Breaching Section is under their control.

11.3 ARRANGEMENT OF EXPLOSIVES AND SECURITY OF EXPLOSIVE SORES

Relates to Gujranwala Division, UCC as Breaching Section is under their control.

11.4 LIST OF THE SECURITY STAFF ALONGWITH DETAIL OF THEIR TRAINING ETC

Relates to Gujranwala Division, UCC as Breaching Section is under their control.

11.5 DETAIL OF MECHANICAL MEANS AS A STANDBY ARRANGEMENTS IN CASE OF DETONATION FAILURE

Relates to Gujranwala Division, UCC as Breaching Section is under their control.

11.6 DUTY ROSTER IN CASE OF CRITICAL SITUATION

Relates to Gujranwala Division, UCC as Breaching Section is under their control.

11.7 BREACHING COMMITTEE WITH THEIR ACTION PLAN

If the water level in the river attains the critical level at critical gauge fixed at RD.15150 of Shahdara Flood Protection Bund and is in rising position, then the breaching section will be operated after the decision of the breaching operation committee comprising the following as per notification No.SO(Floods)VI-33/97 dated.15-07-2015.

- i. District Coordination Officer of the district in which the breaching section is located, who shall also be the convener of the Committee.
- ii. District Coordination Officer of the District, likely to be effected by the operation of breaching section or his representative (in case the area affected falls outside the district in which the breaching section is located).
- iii. Representative of the department owning the structure at which the breaching section is located (not less than the rank of Executive Engineer or equivalent).
- iv. Representative from C&W Department not below the rank of an Executive Engineer,
- v. Executive Engineer concerned of the Irrigation Department.
- vi. Representative from Pakistan Army not below the rank of a Lt. Colonel.

11.8 LIST OF THE VILLAGES & ABADIES LIKELY TO BE INUNDATED DURING VARIOUS FLOOD LIMITS

i) Low Flood (40000 Cs – 65000 Cs) Almost no areas inundated.

ii) **AREAS LIKELY TO BE AFFECTED DURING LOW / MEDIUM FLOOD (65000 Cs – 90000 Cs)**

A) LAHORE PROTECTION BUND

1. BETWEEN NEW ROAD BRIDGE SHAHDARA AND J-SPUR NO.1

i) Muhammadi Colony ii) Gow Shala

2. BETWEEN J-SPUR NO.1 & J-SPUR NO.2

i) Chiragh Park

3. BETWEEN J-SPUR NO.2 & J-SPUR NO.3

i) Ameen Park ii) Chaudhary Park iii) New Shafiqabad

4. BETWEEN SPUR NO.3 & SAGGIAN BRIDGE

i) Ghulshan Riaz Colony ii) Mughal Park

5. BETWEEN SAGGIAN BRIDGE & J-SPUR NO.4

i) Akram Park ii) Sandha

6. BETWEEN J-SPUR NO.4 & T-SPUR NO.5

i) Tufail Colony

7. BETWEEN T-SPUR NO.5 & MOTORWAY BRIDGE

i) Fazal Colony ii) Shiblee Town
 iii) Ismail Colony iv) Yousuf Nagar
 v) Abu Bakar Siddique Colony vi) Shaheenabad

B) TIE BUND**1. BETWEEN MOTORWAY BRIDGE AND J-SPUR NO.1**

i) Talat Park (ii) Bhadroo Pind (iii) Malik Park

2. BETWEEN L-BUND AND J-SPUR NO.2

l) New Shadewal Village

C) MEHMOOD BOOTI BUND

i) Karol (ii) Jabbo (iii) Bhama (iv) Khokhar Road (V) Jhuggian

D) SOME OF THE OTHER VILLAGES ARE AS UNDER:

i.	Babakwal	ii)	Old Akbarabad	iii)	Saadpur Dossair
iv)	Toria Chotta	v)	Toria Bara	vi)	Bhyghanpura
vii)	Rajia Araian	viii)	Rahijian Phogan	ix)	Shahpur Kanjran
x)	Naul	xi)	Khanke Jhuggian	xii)	Babu Sabu
xiii)	Din Muhammad Farm	xiv)		xiv)	Farid Colony
xv)	Mehrpur	xvi)	Rangilpur	xvii)	Nanu Dogar etc

II) HIGH FLOOD, VERY HIGH FLOOD AND EXCEPTIONALLY HIGH FLOOD

The limit of high flood to exceptionally high flood ranges from 90000 Cs to 180000 Cs. The flood water touches the flood protection bunds at these limits and all the villages and abadies within the flood protection bunds are inundated.

**LIST OF THE VILLAGES LIKELY TO BE INUNDATED IN
CASE OF SHAHDARA DISTY FLOOD BUND BREACH
(INCLUDING INFRASTRUCTURE)**

1. Shahdara – Narowal Railway Line in front of breaching section upto (4-K.M).
2. Shahdara – Gujranwala Railway Line upto Kala Shah Kaku (10.54 KM)
3. Shahdara – Gujranwala dual carriage way (G.T. Road) upto Kala Shah Kaku
4. Shahdara – Sheikhpura Railway Line upto Missan Kalar Railway Station (9.65 K.M)
5. Shahdara – Sheikhpura road upto over head bridge of Motorway (8 KM)
6. Shahdara Distributory RD.65+000 to 100+000 (Upto Motorway)
7. Shahdara – Sharakpur road upto Motorway
8. Motorway from River Ravi to Kala Shah Kaku inter change and Bypass from G.T.Road to Motorway
9. **SHAHDARA / KALA KHATAI ROAD (BOTH SIDES)**
 - i. Industrial area between Shahdara Distributory and Kala Khatai Road (Haji Kot) including Flour Mills, dying / casting factories and foundries etc.
 - ii. Javed Park
 - iii. Barkat Town
 - iv. Jameel Park
 - v. Garvi Mohallah
 - vi. Ali Park etc
10. **G.T.ROAD (SHAHDARA / GUJRWANWALA) BOTH SIDES**
 - i. Scattered industry on both sides.
 - ii. Imamia Colony
 - iii. Feroze Wala

- iv. Shah Khalid Town
- v. Shami Park
- vi. Bashir Town
- vii. Rana Town
- viii. Khadija Town
- ix. Ittehad Chemicals Colony Kala Shah Kaku etc

11. KALA SHAH KAKU / MOTORWAY (L/S FACING LAHORE)

- i. Kallar
- ii. Missin
- iii. Dera Moulvian
- iv. Green View Cooperative Housing Society
- v. Gulfishan Town
- vi. Rangian Changian
- vii. Kot Abdul Malik Villages and proposed toll plaza on Motorway etc

12. SOME OF THE OTHER INFRASTRUCTURE / ABADIES ARE LISTED BELOW

- i. Nala Bhed
- ii. Nala Lela
- iii. Draghai Minor
- iv. Taj Colony
- v. Vandala Deyai Shah
- vi. Faisal Town
- vii. Sharakpur Khurd
- viii. Abul Khair

- ix. Kot Abdul Malik
- x. Thatha Khuda yar
- xi. Badoo
- xii. Canal Rest House Shahdara
- xiii. Karol etc

11.9 ANNOUNCEMENT AND DETAIL OF EVACUATION ARRANGEMENT

All announcements regarding evacuation will be made through District Administration by electronic media, radio, local Mosque and Loud speaker etc.

11.10 DETAIL OF COORDINATION WITH CIVIL / ARMY AUTHORITIES

If the water level in the river attains critical level i.e. 698.00 at gauge fixed at RD.15150 of Shahdara Flood Protection Bund and is in rising position then decision for operating breaching section will be obtained / taken by the committee as mentioned in Part-A, Section 11.7 (Page – 37)

11.11 PARALLEL COMMUNICATION ARRANGEMENTS

All communication will be made on wireless, special messengers and telephones mobile phones etc.

11.12 INDEX PLAN

On Next Page – 46

CHAPTER – 12

VULNERABLE SITES ON FLOOD BUNDS / STRUCTURES

No bund except the mentioned herein can breach even in exceptionally high flood.

12.1 APPREHENDED BREACHES IN FLOOD BUNDS

1. Shahdara Flood Protection Bund R.D 9±000 to 15±000.
2. Sharkpur Flood Protection Bund R.D 16±000 to 32±000.

12.2 OPERATION OF BREACHING SECTION

There is no Breaching Section in Lahore Drainage Division Lahore

12.3 BREACHES DUE TO RISE OF FLOOD WATER, DETERIORATION OF FLOOD BUNDS.

No high / exceptionally flood has been experienced after 1988 and the flood bunds of Lahore Drainage Division Lahore are safe and sound.

S.#	Name of Structure	Location of Vulnerable site	Reference of Contingency Plan
1	Shahdara Flood Protection Bund	R.D 9±000 to 15±000	As per contingency plan of Shahdara Breaching Section
2	Sharkpur Flood Protection Bund	R.D 16±000 to 32±000	-do-

CHAPTER – 13

EMERGENCY CONTINGENCY PLAN FOR VULNERABLE SITE (SITES) LISTED ABOVE/ EMERGENCY CONTINGENCY PLAN

SITE NO.1 SHAHDARA FLOOD PROTECTION BUND R.D 9+000 to 15+000

13.1 PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT OF THE BREACH SUPPORTED WITH LEVELS.

Route of flood water is shown at page No.51-A. The flood water after breach between RD.9±000 to 15±000 will enter in Shahdara Town and after inundating the abadies of Shahdara Town including Jada, Power House, Jia Mousa, Begum Kot & Farkhabad etc will finally dispose back into River near Saggian Bridge.

13.2 DETAIL OF VILLAGES / ABADIES LIKELY TO BE AFFECTED AND THIS SHOULD ALSO BE SHOWN ON THE PLAN

S.#	Shahdara Bund R.D 9±000 to 15±000
H.F.L	694.00
1	Shahdrah Town
2	Jada
3	Their
4	Qazi Park
5	Power House
6	Paracha Colony
7	Juspat
8	Gulshanabad
9	Rasool Park
10	Jia Mousa
11	Begum Kot
12	Farkhabad

13.3 STRATEGY AND ACTION TAKEN BE EXPLAINED IN DETAIL.

Sub Divisional Officers and their staff would remain present and vigilant in the area round the clock during flood period. The flood information would be communicated by wireless, mobile phone or sent through special messenger employed for this purpose. In case of any emergency, the Sub Divisional Officer concerned would report the matter to the Executive Engineer, Lahore Drainage Division, Superintending Engineer, Lahore Drainage Circle, Chief Engineer, Irrigation Lahore Zone, Director Regulation, Chief Engineer, Drainage & Flood and Secretary Irrigation and Power Department, Punjab Lahore.

On receipt of any flood warning, Sub Divisional Officer Flood Bund Sub Division will make necessary arrangements. Sub Divisional Officer, Flood Bund alongwith their field staff will camp at spur No.1 at RD.2300 of Shahdara Flood Protection Bund respectively.

In case of High Flood, necessary arrangements for evacuation of affected people will be carried out by the Civil and Military authorities, and the Engineering staff will remain busy in watching and protecting of the Flood Protection Works. The Lahore Division CBDC, Lahore will act as backup division once emergency is declared. All other Departments will have their own arrangements to provide help to the needy persons.

13.3.1 ARRANGEMENTS

As above 13.3

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

S.#	Camping Site	Sub Engineer	Detail of Field Establishment			
			Mistry	Mate	Beldar	Total
1	Shahdara Flood Protection Bund	1	1	1	18	20
	Total:-					20 Nos

13.3.3 DUTIES OF OFFICERS / OFFICIALS AND THEIR CAMP SITES

S.#	Location	Officers (Name & Designation) & Mobile No	Officials (Name & Designation) & Mobile No
1	At XEN Office Mustafabad Lahore	Muhammad Mudassar Rehan Executive Engineer, Lahore Drainage Division, Lahore. Phone No.0332-5543633	
2.	At Shahdara Hut, at RD.2300, of Shahdara Flood Protection Bund.	Syed Ali Hasnain Sub Divisional Officer, Flood Bund Sub Division, Phone No.0347-6104059	Shahzad Naveed Sub Engineer Shahdara Section Phone No.0307-4428758
3.	J-head spur at Shahpur Kanjran	Usman Ali Khan Sub Divisional Officer, Kasur Drainage Sub Division, Lahore Phone No.0336-7483066	Azam Ali Sub Engineer Niaz Baig Section Phone No.0322-7218487

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

No machinery is available in this Division but during flood season excavator and tractor trolleys will be hired through local contractor for flood season to be started at three number camps i.e. Shahdara Hut, Sharkpur Flood Protection Bund and Shahpur Kanjran spur to cater for any emergency situation.

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE

The private machinery including Tractor trolleys and excavators is available nearby at bund road. It may be arranged in emergent situation.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED SHAHDARA BUND

S.#	Name of Items	Unit	Total Require Qty	Availabl e Qty	Balance d Qty	Remar k
1	Kassies / Belchas	No	30	30	0	Preparation of Estimate is under process and balance required material will be procured after due tendering process
2	handle of Kassies	No	20	20	0	
3	Toot Baskets	No	100	100	0	
4	Torches (3- cell)	No	15	15	0	
5	Dry Cell	Dozen	4	4	0	
6	Bulb for Torches	No	2	2	0	
7	Axes	No	6	6	0	
8	Handle for axe	No	4	4	0	
9	Generator	No	1	1	0	
10	Electric wire 3/29	Coil	1	1	0	
11	Insulation tape	No	8	0	8	
12	Electric bulb 100 (W)	No	100	70	30	
13	Electric bulb 200 (W)	No	50	40	10	
14	Bulb Holder	No	50	50	0	
15	Electric Switch	No	60	60	0	
16	Shouldaries	No	1	1	0	
17	Swiss cottage tent	No	1	1	0	
18	Darries	No	5	5	0	
19	camp chair	No	6	6	0	
20	camp Table	No	1	1	0	
21	Buckets G.I	No	45	45	0	
23	Life Jacket	No	6	6	0	
24	Sounding Rod	No	2	1	1	
25	Long rubber shoes	Pair	10	10	0	
26	Emergency Lights	No	3	0	3	
27	Gunny bags	No	1000	1000	0	
28	Nylon Bags	No	1000	1000	0	
29	U-clamp 5/8" dia	No	100	100	0	
30	U-clamp 1/2" dia	No	50	50	0	
31	Water cooler	No	2	0	2	
32	Measuring tape 50'	No	6	3	3	
33	Steel wire rope 1/2" dia	Rft	200	200	0	
34	Khaji Mats	No	20	20	0	
35	Fiber glass boat	No	1	1	0	
36	Bamboo 2 1/2" dia 8-10 ft long	No	20	10	10	
37	Energy Saver 45W	No	12	0	12	
38	Digital Camera	No	1	0	1	

13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

S.#	Name of Items	Unit	Shahdara Bund R.D 9+000 to 15+000
1	Kassies / Belchas	No	30
2	handle of Kassies	No	20
3	Toot Baskets	No	100
4	Torches (3- cell)	No	15
5	Dry Cell	Dozen	4
6	Bulb for Torches	No	2
7	Axes	No	6
8	Handle for axe	No	4
9	Generator	No	1
10	Electric wire 3/29	Coil	1
11	Insulation tape	No	0
12	Electric bulb 100 (W)	No	70
13	Electric bulb 500 (W)	No	40
14	Bulb Holder	No	50
15	Electric Switch	No	60
16	Shouldaries	No	1
17	Swiss cottage tent	No	1
18	Darries	No	5
19	camp chair	No	6
20	camp Table	No	1
21	Buckets G.I	No	45
23	Life Jacket	No	6
24	Sounding Rod	No	1
25	Long rubber shoes	Pair	10
26	Emergency Lights	No	0
27	Gunny bags	No	1000
28	Nylon Bags	No	1000
29	U-clamp 5/8" dia	No	100
30	U-clamp 1/2" dia	No	50
31	Water cooler	No	0
32	Measuring tape 50'	No	3
33	Steel wire rope 1/2" dia	Rft	200
34	Khaji Mats	No	20
35	Fiber glass boat	No	1
36	Bamboo 2 1/2" dia 8-10 ft long	No	10
37	Energy Saver 45W	No	0
38	Digital Camera	No	0

13.4 **DETAIL OF OTHER INFRASTRUCTURE LIKE
ELECTRIC, SUI GAS, TELEPHONE
INSTALLATIONS, ROAD NETWORK, OTHER
BUILDINGS, CANALS AND DRAINAGE NETWORK**

More or less all the infrastructure lies in the areas already identified to be inundated. Installations like WAPDA poles / cables, Sui Gas pipe lines, Railway Lines, Town roads and residential / commercial / Industrial buildings etc exist in the area.

SITE NO.2 SHARKPUR FLOOD PROTECTION BUND
R.D 16+000 to 32+000

13.1 PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT OF THE BREACH SUPPORTED WITH LEVELS.

Route of flood water is shown at page No.61 The flood water after breach will enter in Sharkpur Town and allied abadies including Sahajowal and Naul etc and finally dispose back into River beyond Deg Diversion Channel.

13.2 DETAIL OF VILLAGES / ABADIES LIKELY TO BE AFFECTED AND THIS SHOULD ALSO BE SHOWN ON THE PLAN

S.#	Sharkpur Bund
H.F.L	675.70
1	Sharakpur Town
2	Sahajowal
3	Bhoe Wal
4	Bheni
5	Ghazi pur
6	Naul
7	Dhana

13.3 STRATEGY AND ACTION TAKEN BE EXPLAINED IN DETAIL.

Sub Divisional Officers and their staff would remain present and vigilant in the area round the clock during flood period. The flood information would be communicated by wireless, mobile phone or sent through special messenger employed for this purpose. In case of any emergency, the Sub Divisional Officer concerned would report the matter to the Executive Engineer, Lahore Drainage Division, Superintending Engineer, Lahore Drainage Circle, Chief Engineer, Irrigation Lahore Zone, Director Regulation, Chief Engineer, Drainage & Flood and Secretary Irrigation and Power Department, Punjab Lahore.

On receipt of any flood warning, Sub Divisional Officer Flood Bund Sub Division will make necessary arrangements. Sub Divisional Officer, Flood Bund alongwith their field staff will camp at gauge reader hut at RD.32+060 of Sharkpur Flood Protection Bund.

In case of High Flood, necessary arrangements for evacuation of affected people will be carried out by the Civil and Military authorities, and the Engineering staff will remain busy in watching and protecting of the Flood Protection Works. The Lahore Division CBDC, Lahore will act as backup division once emergency is declared. All other Departments will have their own arrangements to provide help to the needy persons.

13.3.1 ARRANGEMENTS

As above 13.3

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

S.#	Camping Site	Sub Engineer	Detail of Field Establishment			
			Mistry	Mate	Beldar	Total
1	Sharkpur Flood Protection Bund	1	1	1	18	20
	Total:-					20 Nos

13.3.3 DUTIES OF OFFICERS / OFFICIALS AND THEIR CAMP SITES

S.#	Officers	Officials	Camping Station	Duty
1	Executive Engineer, Lahore Drainage Division, Lahore.		At XEN Office Mustafabad Lahore	He will be the overall in charge of Lahore Drainage Division and will keep close contact with his staff and District Administration. He will also act as per flood situation keeping liaison with all concerned Departments related with flood activities,
2.	Sub Divisional Officer, Flood Bund Sub Division, Lahore.		At Shahdara Hut, at RD.2300, of Shahdara Flood Protection Bund.	To monitor flood situation in River Ravi and keep watch on flood protection / River Training works of Shahdara, Mahmood Booti, Qadirabad and Lahore Protection section
3.		Sub Engineer Sharkpur Section	Camp at Gauge hut at RD.32+060 Sharkpur F.P. Bund.	To monitor flood situation in River Ravi and keep watch on flood protection / River Training works in Sharkpur Flood Protection Bund and its spurs.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

No machinery is available in this Division but during flood season excavator and tractor trollies will be hired through local contractor for flood season to be started at three number camps i.e. Shahdara Hut, Sharkpur Flood Protection Bund and Shahpur Kanjran spur to cater for any emergency situation.

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE

The private machinery including Tractor trollies and excavators is available at bund road Lahore. It may be arranged in emergent situation.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED SHARKPUR BUND

S.#	Name of Items	Unit	Total Required Qty	Available Qty	Balance Qty	Remark
1	Kassies	No	30	30	0	Preparation of Estimate is under process and balance required material will be procured after due tendering process
2	Toot Baskets	No	35	35	0	
3	Torches (3- cell)	No	10	10	0	
4	Dry Cell	Dozen	4	4	0	
5	Axe	No	4	4	0	
6	Generator	No	1	1	0	
7	Electric wire 3/29	Coil	1	1	0	
8	Insulation tape	No	4	0	4	
9	Bulb Holder	No	5	5	0	
10	Shouldaries	No	1	1	0	
11	Darries	No	2	2	0	
12	Office chair	No	6	6	0	
13	Office Table	No	1	1	0	
14	Life Jacket	No	6	6	0	
15	Long rubber shoes	Pair	6	6	0	
16	Emergency Lights	No	2	0	2	
17	Nylon Bags	No	1000	1000	0	
18	Water cooler	No	2	0	2	
19	Handle Umbrella	No	1	0	1	
20	Measuring tape 100'	No	2	2	0	
21	Energy Saver 18 w	No	10	0	10	
22	Wrench	No	2	0	2	
23	Pliers	No	2	0	2	
24	Gas Lamp	No	6	6	0	
25	Lantern	No	5	5	0	

13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

S.#	Name of Items	Unit	Material Available at Sharkpur Bund R.D 16±000 to 32±000
1	Kassies	No	30
2	Toot Baskets	No	35
3	Torches (3- cell)	No	10
4	Dry Cell	Dozen	4
5	Axe	No	4
6	Generator	No	1
7	Electric wire 3/29	Coil	1
8	Insulation tape	No	0
9	Bulb Holder	No	5
10	Shouldaries	No	1
11	Darries	No	2
12	Office chair	No	6
13	Office Table	No	1
14	Life Jacket	No	6
15	Long rubber shoes	Pair	6
16	Emergency Lights	No	0
17	Nylon Bags	No	1000
18	Water cooler	No	0
19	Handle Umbrella	No	0
20	Measuring tape 100'	No	2
21	Energy Saver 18 w	No	0
22	Wrench	No	0
23	Pliers	No	0
24	Gas Lamp	No	6
25	Lantern	No	5

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRIC, SUI GAS, TELEPHONE INSTALLATIONS, ROAD NETWORK, OTHER BUILDINGS, CANALS AND DRAINAGE NETWORK

More or less all the infrastructure lies in the areas already identified to be inundated.

CHAPTER – 14

ACTION PLAN

14.1 RE-SHUFFLING / RECOUPING PLAN OF RESERVE STONE DEPARTMENTALLY

During any emergency stone will be reshuffled through Local Contractors.

14.2 DETAIL OF INLET / OUTLET CROSSING ALONG WITH CLOSING METHODOLOGY

There is no Inlet / Outlet crossing along with Flood Protection Bund.

14.3 DEPLOYMENT MACHINERY (LOW TO HIGH FLOOD)

Name of Structure	Length in Mile	Vulnerable Reach	Camp Location	Site In-charge by name & Cell No.	Machinery Deployed					Availability of Stone Lac Cft
					Excavator	Dozer	Trolleys/ Dumpers tractor with front	Labour (Belkar + Mate)		
2	3	4	5	6	7	8	9	10	11	12
Shahdara Flood Protection Bund	3.15	9+000 to 15+000	Hut at RD.2300 Shahdara F.P.B	Sub Engineer Shahdara Section	1	-	2		20+2	0.537
Sharkpur Flood Protection Bund	6.41	16+000 to 32+000	Hut at RD.32+060 Sharkpur F.P.B	Sub Engineer Sharkpur Section	1	-	2		20+2	1.019
Mehmood Booti Bund	5.80	-	RD.7000 Hockey Spur of	Sub Engineer M.B.B Section					20+2	0.0161
Lahore Protection Bund	4.60	-	T-head spur No.5 RD.19900	Sub Engineer L.P.B Section					20+2	0.7791
Qadirabad Flood Protection Bund	2.05	-	Qadirabad spur	Sub Engineer Qadirabad Section					20+1	0.1386

J-Spur Shahpur Kanjran J-spur at Chung	3.03	-	J-head spur Shahpur Kanjran	Sub Engineer Niaz Baig Section	1	-	2		20+1	1.055
Total					3	-	6		120+10	3.54

14.4 DEPLOYMENT OF MACHINERY (HIGH TO VERY HIGH FLOOD)

Name of Structure	Length in Mile	Vulnerable Reach	Camp Location	Site In-charge by name & Cell No.	Machinery Deployed					Availability of Stone Lac Cft
					Excavator	Dozer	Trolleys/ Dumpers	Tractor with front loader	Labour (Beldar + Mate)	
2	3	4	5	6	7	8	9	10	11	12
Shahdara Flood Protection Bund	3.15	9+000 to 15+000	Hut at RD.2300 Shahdara F.P.B	Sub Engineer Shahdara Section	1	-	2		30+3	0.537
Sharkpur Flood Protection Bund	6.41	16+000 to 32+000	Hut at RD.32+060 Sharkpur F.P.B	Sub Engineer Sharkpur Section	1	-	2		30+3	1.019
Mehmood Booti Bund	5.80	-	RD.7000 Hockey Spur of	Sub Engineer M.B.B Section					30+3	0.0161
Lahore Protection Bund	4.60	-	T-head spur No.5 RD.19900	Sub Engineer L.P.B Section					20+3	0.7791
Qadirabad Flood Protection Bund	2.05	-	Qadirabad spur	Sub Engineer Qadirabad Section					20+2	0.1386
J-Spur Shahpur Kanjran J-spur at Chung	3.03	-	J-head spur Shahpur Kanjran	Sub Engineer Niaz Baig Section					20+1	1.055
Total					2	-	4		150+15	3.54

14.5 DEPLOYMENT OF MACHINERY (HIGH TO EXCEPTIONALLY HIGH FLOOD)

Name of Structure	Length in Mile	Vulnerable Reach	Camp Location	Site In-charge by name & Cell No.	Machinery Deployed					Availability of Stone Lac Cft
					Excavator	Dozer	Trolleys/ Dumpers	Tractor with front loader	Labour (Baidar + Mate)	
2	3	4	5	6	7	8	9	10	11	12
Shahdara Flood Protection Bund	3.15	9+000 to 15+000	Hut at RD.2300 Shahdara F.P.B	Sub Engineer Shahdara Section	2	-	4		50+5	0.537
Sharkpur Flood Protection Bund	6.41	16+000 to 32+000	Hut at RD.32+060 Sharkpur F.P.B	Sub Engineer Sharkpur Section	2	-	4		50+5	1.019
Mehmood Booti Bund	5.80	-	RD.7000 Hockey Spur of	Sub Engineer M.B.B Section					50+5	0.0161
Lahore Protection Bund	4.60	-	T-head spur No.5 RD.19900	Sub Engineer L.P.B Section					50+5	0.7791
Qadirabad Flood Protection Bund	2.05	-	Qadirabad spur	Sub Engineer Qadirabad Section					50+5	0.1386
J-Spur Shahpur Kanjran J-spur at Chung	3.03	-	J-head spur Shahpur Kanjran	Sub Engineer Niaz Baig Section					50+5	1.055
Total					4	-	8		150+15	3.54

LIST OF LOCAL CONTRACTORS

Name of Govt. Contractor	Contact Number	Remarks
M/S Muhammad Umar & Co	0321-8527997	Excavators and other machinery may be made available through these contractors.
M/S Malik Ashfaq & Co	0300-8449133	
M/S Bashir Ahmed Enterprises	0300-4651754	

14.6 POLICE DEPLOYMENT PLAN

Proforma – 1

Sr.	Site of Breaching Section	Concerned Canal Division	Concerned Police Station and District	Police Persons Deployed		Remarks (if any)
				Inspector / Sub Inspector / A.S.I	Constable	
1	-	-	-	-	-	-

Proforma – 2

Sr.	Vulnerable sites used for illegal cuts during floods	Concerned Canal Division	Concerned Police Station and District	Police Persons Deployed		Remarks (if any)
				Inspector / Sub Inspector / A.S.I	Constable	
1	Shahdara Flood Protection Bund 9+000 to 15+000	Lahore Drainage Division	Shadara Police Station District Lahore	ASI=1	2	-
2	Sharkpur Flood Protection Bund 16+000 to 32+000	Lahore Drainage Division	Sharkpur Police Station District Sheikhpura	ASI=1	2	--

Proforma – 3

Sr.	Name of Barrage	Concerned Canal Division	Concerned Police Station and District	Police Persons Deployed		Remarks (if any)
				Inspector / Sub Inspector / A.S.I	Constable	
-	-	-	-	-	-	-

14.7. DETAIL OF SYNTHETIC BAGS WITH CAPACITY OF 500 KG AND 1000 KG.

Sr. #	Item	Required Qty No.	Available Qty No.
1	Synthetic Bags with capacity 500 KG	5000	0
2	Synthetic Bags with capacity 1000 KG	5000	0

14.8 DETAIL OF POLYTHENE SHEETS OF BLACK COLOUR TO PROTECT UPSTREAM SLOPE AGAINST WAVE ACTION AND TO CONTROL SEEPAGE THROUGH EMBANKMENT.

Sr. #	Item	Required Rft	Available Rft
1	Polythene sheets of black colour for protecting upstream slopes from waves and control to seepage (Average 20 FT Width)	0	0

CHAPTER – 15

BACKUP DIVISION (IN CASE OF BREACH)

In case of Emergency/Breach Lahore Division CBDC will act as sister Division of Lahore Drainage Division Lahore.

Executive Engineer,
Lahore Drainage Division,
Lahore.

Sub Divisional Officer,
Flood Bund Sub Division,
Lahore.

Sub Divisional Officer,
Kasur Drainage Sub Division,
Lahore.

CONTINGENCY PLAN



SHAHDARA BREACHING SECTION FOR THE YEAR 2020

LAHORE DRAINAGE CIRCLE
LAHORE

LAHORE DRAINAGE DIVISION
LAHORE

CHIEF ENGINEER,
IRRIGATION LAHORE ZONE,
LAHORE.

SHAHDARA BREACHING SECTION AND CONTINGENCY PLAN **EFFECT OF FLOODS ON SHAHDARA SHEIKHUPURA AND** **KOT ABDUL MALIK AREA**

The River Ravi enters in Pakistan territory near Kot Nainan, Tehsil Shakargarh, District Narowal. There are Flood Protection works on both sides of the River. The Lahore city is situated on the left bank of River whereas Shahdara Town is situated on the right bank of the River. There are four road bridges and one Railway Bridge constructed on River Ravi in the vicinity of Lahore. Mainly there are three Flood Protection Bunds named Mehmood Booti Bund RD.0+000 -29+000, Lahore Protection Bund RD.3+000 to 26+000 and Tie Bund RD.0+000 to 20+000 constructed along left bank of the River for the protection of Lahore city and Shahdara Flood Protection Bund RD 0-15+750 along with battery of 5 No. Spurs constructed along right bank of the River to protect Shahdara Town and other allied abadies U/S of Railway Bridge.

Above mentioned Flood Bunds on left side do not exist in their original design / shape as Ring Road has been constructed over Mahmood Booti Bund and Lahore Protection Bund. Similarly Motorway has since been constructed over Tie Bund. These flood structures are now not maintained by Irrigation Department.

There is an approved breaching section along Shahdara Distributary between RD 55+000 to 65+000. Shahdara Flood Protection Bund is connected with Shahdara Distributary at RD 65+200. The critical R.L. for the operation of breaching section is 698.00 as per gauge fixed at RD.15+150 of Shahdara Flood Protection Bund.

There are three gauging station viz Jassar, Ravi Syphon and Shahdara Railway Bridge. The first Headworks on this river in Pakistan is Balloki Headworks. The designed capacity and different flood stages on the above gauging station are given as below:-

(Discharge in Lac Cusec)

River	Site	Design Capacity	Low Flood (Lac Cs)	Med: Flood (Lac Cs)	High Flood (Lac Cs)	Very High Flood (Lac Cs)	Ex. High Flood (Lac Cs)	Time Lag
Ravi	Jassar	2.75	0.50 to 0.75	0.75 to 1.00	1.00 to 1.50	1.50 to 2.00	Above 2.00	12 Hours
	Ravi Syphon	4.50	0.40 to 0.65	0.65 to 0.90	0.90 to 1.35	1.35 to 1.80	Above 1.80	18 Hours
	Shahdara	2.50	0.40 to 0.65	0.65 to 0.90	0.90 to 1.35	1.35 to 1.80	Above 1.80	8 Hours

The gauge fixed at Railway Bridge Shahdara is recorded regularly during the flood season. During the flood of 1988 maximum discharge of 326000 Cs. was experienced at this site. The gauge observed at Shahdara Railway Bridge was 694.70 whereas the R.L. observed at breaching section was 701.20, when the breaching section was operated. The Shahdara Flood Protection Bund breached at RD 13+000 and 15+000 when breaching section between RD 55+000 – 65+000 of Shahdara Distributory Bund was under operation. The estimated discharge passed through the breaching section of Shahdara Distributory Bund and breaches in the Shahdara Flood Protection Bund was 1.0 Lac Cs. This discharge caused inundation around Shahdara Town and the roads and other infrastructures came under water with varying depth upto 8 ft. maximum. On operation of breaching section, it is expected that approximately 1.0 Lac Cs. water will pass through the breaching section and the following infrastructure and abadies will come under the direct hit of the flood water and will be inundated.

1. INFRASTRUCTURE

13. Shahdara – Narowal Railway Line in front of breaching section.
14. Shahdara – Gujranwala Railway Line upto Kala Shah Kaku.
15. Shahdara – Gujranwala dual carriage way (G.T. Road) upto Kala Shah Kaku.

16. Shahdara – Sheikhpura Railway Line upto Kot Abdul Malik.
17. Shahdara – Sheikhpura road upto Kot Abdul Malik.
18. Shahdara Distributory RD 65+000 – 100+000 (Upto Motorway).
19. Shahdara – Sharakpur road upto Motorway
20. Motorway from River Ravi to Kala Shah Kaku inter change and Bypass from G.T. Road to Motorway.
- ix. Industrial area between Shahdara Distributory and Kala Khatai Road (Haji Kot) including Flour Mills, dying / casting factories and foundries etc.

2. ABADIES

- vii. Javed Park
- viii. Barkat Town
- ix. Jameel Park
- x. Garvi Mohallah
- xi. Ali Park etc

3. G.T.ROAD (SHAHDARA / GUJRANWALA) BOTH SIDES

- x. Scattered industry on both sides.
- xi. Imamia Colony
- xii. Feroze Wala
- xiii. Shah Khalid Town
- xiv. Shami Park
- xv. Bashir Town
- xvi. Rana Town
- xvii. Khadija Town
- xviii. Ittehad Chemicals Colony Kala Shah Kak etc

4. KALA SHAH KAKU / MOTORWAY (L/S FACING LAHORE)

- viii. Kallar
- ix. Missin
- x. Dera Moulvian
- xi. Green View Cooperative Housing Society

- xii. Gulfishan Town
- xiii. Rangian Changian
- xiv. Kot Abdul Malik Villages and proposed toll plaza on Motorway etc

5. SOME OF THE OTHER INFRASTRUCTURE / ABADIES ARE LISTED BELOW

- xiv. Nala Bhed
- xv. Nala Lela
- xvi. Draghai Minor
- xvii. Taj Colony
- xviii. Vandala Deyai Shah
- xix. Faisal Town
- xx. Sharakpur Khurd
- xxi. Abul Khair
- xxii. Kot Abdul Malik
- xxiii. Thatha Khuda yar
- xxiv. Badoo
- xxv. Canal Rest House Shahdara
- xxvi. Karol etc

The perusal of the levels observed and the past experience reveals that flood water after relieving from the breaching section will directly hit the Shahdara – Narowal Railway Line. In the absence of water ways under this Railway Line the flood water shall spread in the pockets between Shahdara Distributory Bund and the Railway Line on both sides till it over tops the Railway Line causing heavy damage to it and abadies. After attaining adequate passage through the Shahdara – Narowal Railway Line, the flood water shall flow along Shahdara – Gujranwala Railway Line and will pass through the waterways available under this Railway Line by hitting the abadies and G.T. Road. Ultimately the floodwater will enter into the Bhed Nullah by inundating the abadies around Shahdara in the pockets surrounded by Right Bank of the Shahdara Distributory, Shahdara – Gujranwala Railway Line and Motorway.

During flood 1988 the maximum depth of water observed in this pocket was 8 ft. but at that time the Shahdara Flood Protection Bund breached at two sites i.e. RD 13+000 and 15+000, which directly hit the abadies of Shahdara Town and water entered into the deepest pocket available. If the breaching section is operated in time and water is properly guided then it is expected that 3 – 4 ft. water depth may be experienced in the abadies.

After thorough examining the area expected to come under flood, observations of the levels of different infrastructures, the following strategy is proposed to be observed if the critical R.L. of 698.00 is achieved during coming flood season and breaching section is operated:-

1. After operation of the breaching section the water shall spread between Shahdara Distributory and the Shahdara – Narowal Railway Line. It will also enter in to the Shahdara Distributory. The spreading of water may cause havoc while aheading towards Shahdara Town. To avoid this situation and to minimize the inundation and excessive flooding of the abadies, it is suggested that plugging of Shahdara Distributory down stream RD 65+000 at adequate places may be done before operation of breaching section to reduce the flood water pressure on the flood bund of Shahdara Distributory from RD 65+000 – 72+000.
2. The Shahdara – Narowal Railway Line is 3 - 4 ft above N.S.L. There is no waterway available under this Railway Line. Necessary machinery inclusive of two No. dozers will have to be made available by Pakistan Railways to take immediate action for the removal of Railway Line and give adequate passage for the floodwater expected to be released from the breaching section to avoid its spreading / inundation of the abadies and other installations between Shahdara – Narowal Railway Line and Shahdara Distributory.
3. Plugging of all the water ways under Shahdara – Gujranwala Railway Line shall be required from Shahdara to Railway crossing Bhed Nullah with the help of Jute bags duly filled with earth to guide the sheet flow for its disposal through

Bhed Nullah to avoid entrance of flood water into Shahdara Town and its adjoining abadies. The proposed action will be taken by the Pakistan Railway.

4. With the above arrangement the floodwater shall follow the course of Bhed Nullah but still it will over flow on both sides. It is expected that right up to Laila Nullah there will be floodwater upto 4 ft. depth on average and Laila Nullah shall also be utilized for the disposal of flood water. Some cuts have to be made on dual carriageway of G.T. Road between Bhed Nullah and Laila Nullah. The proposed action will be taken by N.H.A.
5. The difference between N.S.L. and the G.T. Road top from Shahdara to Kala Shah Kaku Bye Pass varies from 6 – 8 ft. The existing capacity of waterways under this portion of dual carriageway of G.T. Road comes out to be 35000 Cs. The average X-sectional area of water ways constructed under this part of road is 15000 Sft. against which the existing X-sectional area is 8500 Sft. only and all the other waterways have been encroached / blocked. The existing capacity of waterways shall be used for the disposal of floodwater for increasing discharging capacity between Bhed and Laila Nullah, 2000 ft. road cut shall be required which will be arranged by N.H.A.
6. The difference between the R.Ls of N.S.L. and top of Shahdara – Sheikhpura Railway Line varies from 3 to 9 ft. waterways under Shahdara – Sheikhpura Railway Line from G.T. Road to Bhed Nullah crossing will have to be plugged by Railway Department to guide the sheet flow to pass through Bhed Nullah and spreading of floodwater between Bhed Nullah and Laila Nullah.
7. Adequate passage under the Shahdara – Sheikhpura Railway Line between Bhed Nullah and Laila Nullah will have to be provided by the Railway Department with the help of machinery / dozers etc. to provide additional passage to the sheet flow of floodwater.

8. Flood water downstream Railway crossing of Shahdara – Sheikhupura Railway Line shall flow in to Nullah viz Bhed and Laila in addition to flooding of area between these two Nullahs on left and the right side of these Nullahs. This may cause the inundation of the abadies surrounded by Shahdara – Sheikhupura Railway Line, Shahdara – Sheikhupura Road, Shahdara Distributory and the Bhed Nullah. The difference of R.Ls between N.S.L.s and top of Shahdara – Sheikhupura Road is 4 – 5 ft. within adequate waterways.
9. To have the additional water passage, Shahdara – Sheikhupura Road will have to be cut near the crossing of Bhed Nullah for which arrangements have to be made by Highway Department. After crossing the Shahdara – Sheikhupura Road the floodwater shall flow in the Bhed Nullah upto Motorway in addition to flooding of the area on the left and right side of this Nullah. The flood water may over top the road between Shahdara Distributory and Bhed Nullah crossing.
10. There is no sufficient waterway available under Motorway for passing of the floodwater being received from Bhed Nullah, which may cause flowing of water along the Motorway towards the river. The floodwater shall pass through waterways available between River Ravi and Nullah crossing under Motorway and surplus water is expected to move along the Motorway till it outfalls into Ravi River upstream of the Motorway Bridge. If this situation arises then Shahdara Distributory and Sheikhupura – Jaranwala Road shall need to be cut to provide the passage to floodwater for its disposal into River Ravi.
11. Evacuation of abadies between Bhed Nullah and Shahdara Distributory RD 50+000 – 100+000 from Haji Kot upto Motorway Bridge on River Ravi shall be required in case emergency is declared and breaching section is operated.
12. On receipt of information about exceptionally high flood from Flood Warning Centre, Lahore, all the arrangement as proposed above shall have to be made

and completed in all respects by all the concerned departments before receipt of flood at Shahdara Railway Bridge and operation of breaching section.

It is further mentioned that the matter regarding shifting of site of breaching section has been examined and it has been found that the existing site is the most suitable and workable for the activation of the breach.

Moreover a long-term programme needs to be chalked out for the safe passage of flood in future and protection of abadies, infrastructure and other public / private properties. This may require the construction of flood embankments, provision of adequate waterways under Roads / Railway Lines. The existing water way capacity of old Road / Railway Bridge near Shahdara is 2.5 Lac Cs. which needs to be enhanced for additional 2.0 Lac Cs.

LIVESTOCK DEPARTMENT

LAHORE.



FLOOD EMERGENCY PLAN 2020

Additional Director Livestock, Lahore.

Ph. No: 042-99201121

Email: adllahore.dist@gmail.com

LIVESTOCK EMERGENCY PREPAREDNESS PLAN, 2020

Livestock sector occupies a pivotal position both as a source of providing animal protein and earning foreign exchange by exporting Livestock products. It inevitably plays an important role in the socio economic life of the rural groups. This sector not only provides animal proteins and fat for human consumption but also provides bulk of motive power for agriculture operations. As a subsector, it comprises around 58.9% of the GDP contributed by the Agriculture sector, where-as its contribution to the total GDP is about 11.3% percent.

A mass vaccination campaign will be undertaken in Lahore District during flood season, to prevent and control the spread of various contagious and infectious diseases of animals and poultry.

OBJECTIVES:-

1. To provide vaccination and treatment coverage before and after the onset of 'Monsoon season'.
2. To protect and safeguard the livestock wealth of district Lahore from infectious and contagious diseases of epidemic in nature.
3. To curtail economic losses due to diseases.
4. To disseminate advisory services to the livestock farmers.

LIVESTOCK DISEASES HAVING ECONOMICAL CONCERN:-

1. Haemorrhagic Septacemia.
2. Foot and mouth Disease.
3. Enterotoxaemia in sheep and goat.

POULTRY DISEASES:-

1. New Castle Disease.
2. Fowl Pox.

MEASURES TO BE UNDERTAKEN

Animal health care and treatment facilities will be provided in the flood prone areas/ veterinary institutions during flood season.

This task will be accomplished through Veterinary Officers and Veterinary Assistants, working in Lahore District. While immune prophylaxis/vaccination as well as First Aid Veterinary cover will be carried out in the flood affected areas in a campaign form, in the vicinity of the established flood centers.

1. PROPHYLACTIC VACCINATION CAMPAIGN.

Pre flood vaccination campaign will be launched/commenced w.e.f.as per direction of the Admin Department by the field staff, under the supervision of Additional Director Livestock, Lahore. However, a campaign has already been completed against HSV Vaccine in the month of November, December & January in the District having the immunity for one year.

During last year 2,56,287 animals were vaccinated and the achievement was recorded as 235% against the fixed target of the 1,98,360 in the flood prone areas.

Necessary instructions will be circulated among the in-charge of veterinary institutions of the District Lahore, regarding the provision of first aid treatment cover to the sick, wounded animals and control of parasitic diseases.

2. FLOOD PRONE AREAS :-

The following are the flood prone areas in District Lahore:-

1. Shahdara 2. Thokar Niaz Baig 3. Chung 4. Raiwind 5. Bhaseen, 6. Manga Mandi 7. Lakhodair.

3. CONSTITUTION OF TEAMS

Seven teams of Veterinary Assistants will supervised by veterinary officers of the respective areas. These teams will provide maximum veterinary coverage to the Livestock population of the district Lahore, against the contagious as well as infectious diseases particularly in flood prone areas. These teams will also render the advisory services to the Livestock owners/ breeders for the safety of their Livestock wealth, against any outbreak, or any sequel to heavy rains/ flood, under their jurisdiction.

4. FLOOD CENTERS/ SECTORS.

Flood sectors will be established in five town's under Punjab Government, Lahore. The technical staff of Livestock Department, Govt of the Punjab, Lahore will be deputed in the flood centers in the rural areas of Lahore.

1. Ravi Town.
2. Allama Iqbal Town.
3. Aziz Bhatti Town.
4. Shalimar Town.
5. Wahga Town.

5. ESTABLISHMENT OF MOBILE LIVESTOCK RESCUE SERVICES.

Mobile teams headed by Veterinary Officers along with Veterinary Assistants (A.H), and Veterinary Assistants (P.P) shall be operational, as per demand of situation as rapid respond team for effective service delivery during Pre/Post flood activities by the Mobile Veterinary Dispensaries of the concerned area.

6. FOCAL PERSON.

Dr. Mansoor Ahmed, (VO), MVD Phangali Lahore will be act as "Focal Person" for streamlining the work of flood arrangement and to coordinate among various department /stake holders to facilitate public /flood affectless.

7. RESERVES OF DRY FODDER AND STOCK OF ANIMAL FEED.

With a view to ensure the availability of the reserves of dry fodder and stock of animal feed, to combat any undue situation arising out of the anticipated flood/ rainfall during the current year, will be maintained at District level.

8. PROVISION OF ADDITIONAL FUNDS:-

- (a) Additional funds will be needed in the head of Repair & maintenance of vehicles and POL for the smooth running of District flood cell.
- (b) The Director Livestock, Lahore Division Lahore, will help to manage to earmark/ allocate the special grant/ funds as requested by the Additional Director Livestock, Lahore for procurement of fodder and stock of animals feed, for the livestock wealth of the flood affected areas of the District, to envisage situation arising at the event any calamity.
- (c) Additional funds will also be required under the head of advertisement to create awareness among the Livestock farmers regarding adaptation of precautionary measures during the rainy/ flood season.

The Director Livestock, Lahore Division, Lahore will manage to earmark/ reserve the sufficient number of boats, in good working conditions which may be operational well in time, for the safety of flood affected farmers and their Livestock.

d. Sign Boards and Banners.

Sign Boards and banners will be displayed at main roads and at the site of Livestock flood relief centers.

e. Availability of Anti -Snake Venom.

The authorities will be requested to ensure the availability of Anti Snake Venom at flood centers. Supervisory Committee.

f. **Availability of Tent age.**

Constitution of Supervisory committee.

A supervisory committee comprising of Deputy Director (Tehsil Model Town), Deputy Director (Tehsil City /Shalimar) and Veterinary Officer,In-charge (Flood Cell) will be constituted, to ensure smooth implementation, transparency and physical checking of flood activities and other allied matter.

DETAIL OF FLOOD RELATED DATA		
1.	Map of Lahore District Showing Veterinary Hospitals / Dispensaries / Centers and Flood Prone Areas	Annexure - A
2	Livestock Population data of District Lahore	Annexure –B
3	Detail of staff deputed at Flood Centers / Sectors	Annexure-C

Annexure – B

LIVESTOCK POPULATION.

Cattle	195264
Buffalos	370985
Sheep	35577
Goat	72284
Camels	5
Horses	6286
Mules	180
Asses	6981
Poultry	488183

Annexure – C

DETAIL OF STAFF DEPUTED AT FLOOD CENTERS

Sector No.	Name of Town.	Name of Flood Centre/Teams.	I/c, Flood Centre	Name of V.A / A.I.T
1	Ravi Town	CVH Shahdara	Dr. Fauzia Kokab AVO, I/C CVH Shadara	Mr. Asif Ghafor V.A. C.V.H. Shahddra 03379680047
				Mr. Mushtaq Ahmad VA CVH Shahdra 03004050517
2	Data Gunj Bakhsh Town	CVH A.I. Section	Dr. Abdul Ghaffar VO 03379685455	Mr. Zaheer Ahmed AIT o/oDDL City 03451130312 M. Tariq VA AI Section 03017399651

3	Allama Iqbal Town.	CVH Niaz Baig	Dr. Sadia Rafiq S.V.O I/C CVH Thokar Niaz Baig 03064747386	NaseemQasierV.A. C.V.H. Niaz Baig0333-4646645 Mr. Hanif AIT Thokar Niaz Baig0333-4248316
		CVD Shah purKanra	Dr. Talha Sajjad V.O, I/C CVD Shahpur Kanjran	Shahzad Asghar V.A 03379683656
		CVH, Chung	Dr. Bushra Saleem I/C CVH Chung 03009494597	Mr. Muhammad Yamin, V.A. C.V.H Chung.3379683657
		CVD Maraka	Dr. Imran Qamar CVD Maraka 03019844531	Mr. Ali Sher V.A Maraka 03379680046
		CVH Shamkey Bhattian	Dr. Farhan Younas VO CVH Shamkey Bhattian	Mr. Waqar Ali V.A. C.V.H,Shamkey Bhattian03379680078 Mr. Zahoor Ahmad, V.A. Rangeel Pur, C.V.H, Shamkey Bhattian.3379683670
		CVH Manga Mandi	Dr Maleeha SaifVO CVH Manga Mandi 03214059542	Mr. Muhammad Yousaf V.A. C.V.H, Manga Mandi 03379680070 Mr.Sohaib , V.A/A.I.T 03065945370. Manga Mandi,
		4	Shalimar Town	CVD Lakhodair
CVH Handu Gujran	Dr. Muhammad Iqbal, VO (H), I/C CVH Handu030048 27035			Mr. Maqsood Ahmed VA Handu Gurjan0300-4234644

5	Wahga Town	CVH Bhaseen	Dr. Mudassir Nadeem 03339803739	Mr. Asghar Kanju, V.A, A.I.T C.V.H. Jallo.0306-4264176 Muhammad Faiz ul Hassan V.A 0300-8844720
				Imran Ghafoor VA Muhammad Ramzan A.I. T 0312-438777803379680083
6	Nishter Town	No Flood Prone areas.		
7	Gulberg Town	No Flood Prone areas		
8	Data Gunj Buksh Town	No Flood Prone areas		

**AVAILABILITY OF VACCINE FOR FLOOD 2020 , IN THE OFFICE
OF ADDITIONAL DIRECTOR LIVESTOCK LAHORE**

Sr.	Name of Vaccine	No. of Bottles	Doses
1	H.S.V	3200	80000
2	E.T.V	4000	100000
3	N.D.V	1000	200000
4	F.M.D.V	200000	5000

MONSOON CONTINGENCY
PLAN 2020

HEALTH DEPARTMENT

DISTRICT PROFILE

Sr.	Items Description	Number
1	Total Population (Estimated for 2020)	More than 10 million
2	Geographical Area	2014 Km ²
3	Number of Tehsils	9 Towns +1 Cantt
4	Number of Union Councils	274 UCs + 20 Wards
5	Number of Health Facilities	244
6	BHUs	37
7	RHCs	5
8	THQs	4
9	DHQs / Tertiary Care Hospital	1 DHQ / 11 Tertiary
10	MCH Centers	60

HEALTH FACILITIES

Name	Numbers
BHU	38
RHD	24
RHC	5
DHQ	0
THQ	2
THQ(INDUS)	5
THQ level but not THQ	5
Maternity Hospital	7
MCH Centers	60
Filter clinic	7
Diagnostic centers	7

RISK ANALYSIS

Sr no.	Description	Number												
1	Number of UCs affected in 2017-2019	Nil												
2	Population affected in 2017-2019	Nil												
3	<p>Expected number of UCs to be affected by River Ravi in 2020.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr. no</th> <th style="text-align: center;">Towns / Zones</th> <th style="text-align: center;">UC</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Ravi</td> <td style="text-align: center;">4,6,7,8</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Allama Iqbal</td> <td style="text-align: center;">119,122,123,118</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Wahga</td> <td style="text-align: center;">39, 50</td> </tr> </tbody> </table>	Sr. no	Towns / Zones	UC	1	Ravi	4,6,7,8	2	Allama Iqbal	119,122,123,118	3	Wahga	39, 50	10
Sr. no	Towns / Zones	UC												
1	Ravi	4,6,7,8												
2	Allama Iqbal	119,122,123,118												
3	Wahga	39, 50												
4	Expected population at Risk in 2020 7143 per UC	70,000												

EXPECTED BURDEN OF DISEASE
Based on average from Monsoon Season 2019 &
2020

Sr no.	Disease/Problem	Average Monthly #	Percentage%
1	Acute Diarrhea	11945	4%
2	ARI	43558	12%
3	Malaria	839	1%
4	PUO	6373	2%
5	Skin Infections	10076	3%
6	Injuries	4287	2%
7	Snake Bite	16	0.00%
8	Dog Bite	427	1%
9	Expected Malnourished Children	-	-
10	Expected Malnourished Pregnant Women	1355	1%
11	Eye Infection	3240	1%
12	Others		

Vulnerable groups of Target Population

Expected Population at Risk:2500000				
Sr no	Population group	At Risk	Expected Pop At Risk	
			Annual	Monthly
1	Women of Reproductive age	22%	110000	9167
2	Married CBAs	16%	800000	6667
3	Expected Pregnancies	4.10%	20500	1708
4	Expected Birth	3.10%	15500	1292

5	0-11 Months	3.53%	17650	1471
6	12-23 Months	3.40%	17000	1417
7	24-59 Months	6.40%	32000	2667

FIXED CENTERS AND MOBILE TEAMS PLANNED AT TOWN LEVEL

A-Fixed Centers		
1	Number of Planned Fixed Centers	10
2	Mos designated	10
3	WMOs designated	10
4	LHVs designated	10
5	Dispenser designated	10
6	Vaccinators designated	10
7	CDC Supervisor	10
8	Sanitary Inspector	10
9	Sanitary petrol	10

B-Mobile Teams		
1	Number of Planned Mobile Teams	20
2	MOs	20
3	Entomologists/Technologists	20
4	LHVs designated	20
5	Dispensers	20
6	Vaccinators	20
7	CDC Supervisor	20
8	Drivers	20

Disease Surveillance & Epidemic Response

- Initiation of DEWS reporting on daily basis after the declaration of emergency for timely detection and response to any epidemic.
- Activation of Emergency Response Teams.

Designation	Number
Number of Epidemic Response Teams	2
Members of Epidemic Response Teams <i>(Mention designation in next column)</i>	District Pediatrician, DSI, ASV, CDCI, SP, LSP, Dispenser and LHV

MANAGEMENT & COORDINATION

- The overall responsibility of management and coordination under overall supervision of CEO Health.
- The Coordination Committee will comprise of District Officer Health, Deputy District Officer Health, PHS, DCNP, CDCO, DSV, DSI and representatives form un development partners with CEO Health as Chair person. District Health will keep close liaison with DDMA for overall guidance and mobilization of additional resources.
- The District Control Room (DCR) will start functioning w.e.f 1 July 2020 under the supervision of CEO Health, which will function round the clock till directions from the DGHS office. At least one official will be available in this cell with telephone facility 24/7. The duty roster of the DCR is given below:-

FLOOD CONTROL ROOM AT DISTRICT LEVEL

Landline # of DCR 042-99200988

<ol style="list-style-type: none"> 1. Mr. Shahid Aslam, District Sanitary Inspector (0333-4732689) 2. Mr. M. Afzal, Junior Technician (0322-4812289) 3. Mr. Khalid Latif, Senior Technician (0322-4660915) 4. Mr. Imran Mehmood, Technician (0323-4790196) 5. Mr. Saeed Shah, Senior Clerk (042-99200988) 6. Mr. Kamran Aslam, DEO (0322-4059590) 7. Mr. Ehsan Ahmad, Technician (0304-4748295) 	Morning Shift
<ol style="list-style-type: none"> 1. Mr. Abdul Khaliq, DEO (0321-4663581) 2. Mr. Faisal Rafique, DEO (0342-4605470) 3. Mr. Fawad Shahid, N/Q (0331-4731882) 	Evening Shift
<ol style="list-style-type: none"> 1. Mr. Imran Zaidi, Technician (042-99200988) 2. Mr. M. Suleman, Sanitary Patrol (042-99200988) 	Night Shift

LOGISTICS GAP ANALYSIS

Items	Quantity required	Stock in Hand	Gap
Vector Control Stocks			
Insecticides			
Deltamethrine 1.5EC (lit)	Not required	1075 lit	-
Permethrine (Deltamethrine powder)	100 kg	-	100 kg
Fenithion granular	100 kg	-	100 kg
Equipment			
Ambulances	3	-	3
Personal Protection Equipment (Gloves & masks)	10,000 kits	-	10,000 kits
Spray Pumps	Not required	287	-
Fogger Machines Including TMA's	Not required	340	-
Hand Held	100	-	100
Vehicle Mounted	Not required	8	-
Diagnostics			
Rapid Diagnostic Kits for Malaria	1000	-	1000
Microscopy centers	-	5	-

LOGISTICS GAP ANALYSIS

Total Population affected =

Items	Quantity required	Stock in Hand	Gap
Emergency Health Kit (EHK) –(1 EHK is sufficient for 6000 population for 1 month)	-	25 + 25 box	-
Reproductive Health Kit (RHK)	25	-	25
ARV @ 5 doses / pt	-	500	-
ASV @ 3 doses / pt	-	430	-
Polio vaccine	-	138000	-
Measles vaccine	-	123000	-
TT	-	79000	-
Vit. A Capsules Blue Red	-	192000 1536000	-
Safe Delivery Kits	100	-	100
Plumpy Dose (2 / wk)	500	-	-
High Energy Biscuits	1000 packets	-	1000 packet s
Micronutrient Tabs	10,000	-	10,000
Sprinkles	500	-	-

PREPAREDNESS

Sr. #	Description	Response
1	District Control Room established	Y
2	Epidemic Response Teams formulized	Y
3	Number of ERTs trained	20
4	Number of sub warehouses established in the district	11
5	Mapping of local & international partners done	Y
6	Essential Logistic supplies secured	Y
7	Weekly DEWS reporting established	Y

TENTATIVE WORK PLAN

Sr. #	Activity	Time Line	Responsibility
1	Notification of District Coordination Team	01-06-2020	CEO / DHO
2	Arrangement of Deficient Stocks of logistics / Supplies	Request was sent to the high office	CEO / DHO
3	Pre-positioning of Reserve Stocks at designated Points / Health Facilities	Present stocks reserved at the DDHO's Office	CEO / DHO
4	Activation of District Control Room	01-06-2020	CEO / DHO
5	Initiation of regular meetings of District Coordination Teams	Weekly basis / during flood on daily basis	CEO / DHO
6	Activation of District ERT	01-06-2020	CEO / DHO
7	Training of Staff on DEWS	15-05-2020	CEO / DHO
8	DEWS Reporting on Weekly Basis	Weekly	CEO / DHO
9	Switching over to Daily Reporting Mode for DEWS	01-06-2020	CEO / DHO