FLOOD FIGHTING PLAN – 2026

PART – A

Chapter – 1

Salient Feature of Rachna Drainage Division, Sheikhupura.

1.1 Location

The jurisdiction of Rachna Drainage Division, Sheikhupura falls within Gujranwala and Sheikhupura Districts.

The fertility of area of these districts is directly related to the efficiency of the drainage facilities provided to these districts. The area of Sheikhupura District is the outfall area of the Rachna Doab. It has to carry the surface run off and the inter-flows of the Upper Districts i.e. Gujranwala, Sialkot and Narowal.

1.2 General Description

The important natural Nullah in the jurisdiction of Rachna Drainage Division Sheikhupura viz Deg Nullah (D/S Muridke Narowal Road to outfall). This Nullah enter in to Pakistan from Indian held Kashmir. During monsoon season, this Nullah spill over at different locations creating havoc for human life and property

Apart from this arrangement, a comprehensive drainage system has been provided to these areas, which cater for the drainage of approximately 1275 Sq: miles of the catchment area. This drainage network mainly comprises: -

1. Mangoki Drainage System.
2. Warn Drainage System
3. Isherke Drainage System
4. Gujranwala Drainage System.
5. Chichoki Mallian Drainage System
6. Nikki Deg Drainage System
7. Main Deg Drainage System
8. Deg Diversion Channel
9. Independent Drains.

The above drainage systems outfall into Deg Diversion Channel, Main Deg Nullah, Nikki Deg Drain and Q.B. Link. This Division has 75 No drains, large and small, having a total length of 917.64 miles cater for carrying 73075 Cs, of authorized discharge.

These drainage systems act as a backbone for the riverian Districts, which are bounded by the Q.B. Link Canal, Muridke Narowal Road and River Ravi.

After construction of Lahore – Islamabad section (M-2) Motorway, the natural flow lines in District Sheikhupura have been interrupted causing heading up of surface runoff along Motorway (M-2). The surface runoff (sheet flow) goes into the natural or man-made drainage networks and causes overflow / spillage from drains situated in the vicinity of Sheikhupura City. Worst situation was experienced during monsoon 1997.

Three bunds along drains were constructed in District Sheikhupura in order to save the important towns and other public infrastructure of vital importance from major inundation to drains. These are tabulated as below: -

1. **Flood Embankment along Sheikhupura bund drain to protect Sheikhupura City.**

After construction of embankment of Lahore-Islamabad section (M-2) Motorway, Towns & abadies of Sheikhupura city have been established on both sides of Sheikhupura bund drain and this bund became inactive. The City District Government Administration Sheikhupura had constructed a carpet / metal road on the alignment of Sheikhupura bund during 2011 for early approach to Lahore and Gujranwala Roads. **Now there is sign of bund at site & bund drain is working as sewerage Nullah / drain to cater the sewerage water of adjoining abadi area.**

2. **Flood Embankment along Rachna Outfall Drain to protect Farooqabad City.**

The Farooqabad Flood Protection Bund exists at site & functioning properly.

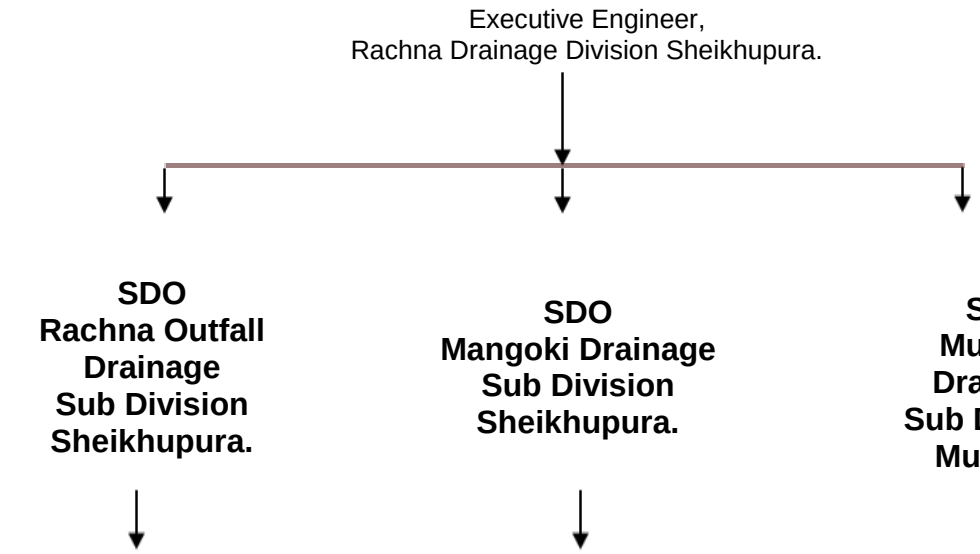
3. **Deg Diversion Flood protection Bund along Deg Diversion Channel to protect Adjoining abadies.**

The Deg Diversion flood protection bund transferred from the sister Division i.e. Sheikhupura Canal Division UCC Sheikhupura by the Competent Authority vide Chief Engineer, Irrigation Lahore order No. 2131/Works.(II)/LHR/2023/19976-95/173/84 dated 09.08.2023. The Deg Diversion flood protection bund exists at site & functioning properly.

1.3 Administration setup

The Administrative setup of the Division is as under.

ADMINISTRATIVE SETUP / ORGANIZATIONAL CHART OF RACHNA DRAINAGE DIVISION SHEIKHUPURA.



1. Sheikhupura Section	1. Jhamke Section	1. Muridke Section
2. Chichoki Mallian Section	2. Farooqabad Section	2. Kala Shah Kaku Section
3. Joyanwala Section	3. Noushera Section	3. Narang Section
4. Harpoki Section	4. Argan Section	
	5. Bupra Section	

Chapter – 2

Flood protection and River Training Works

2.1 Design parameter of Training Works / Flood Embankments

Sr. No.	Name of Bunds/Embankment	H.F.L.	Reach	Length (In miles)	Top width	Slope	Top RL at source	Top RL at outfall
1	2	3	4	5	6	7	8	9
1	Flood Embankment along Rachna outfall Drain Farooqabad.	681.00 (In 1975)	106-123	3.40	10.0'	1.5:1	684.00	684.00
2	Deg Diversion Bund	669.32 (In 1988)	0-89300	17.86	25.0’	2:1	684.65	674.32
			Total: -	**21.26**				

Farooqabad Flood Embankment along Right Bank of Rachna Outfall Drain.

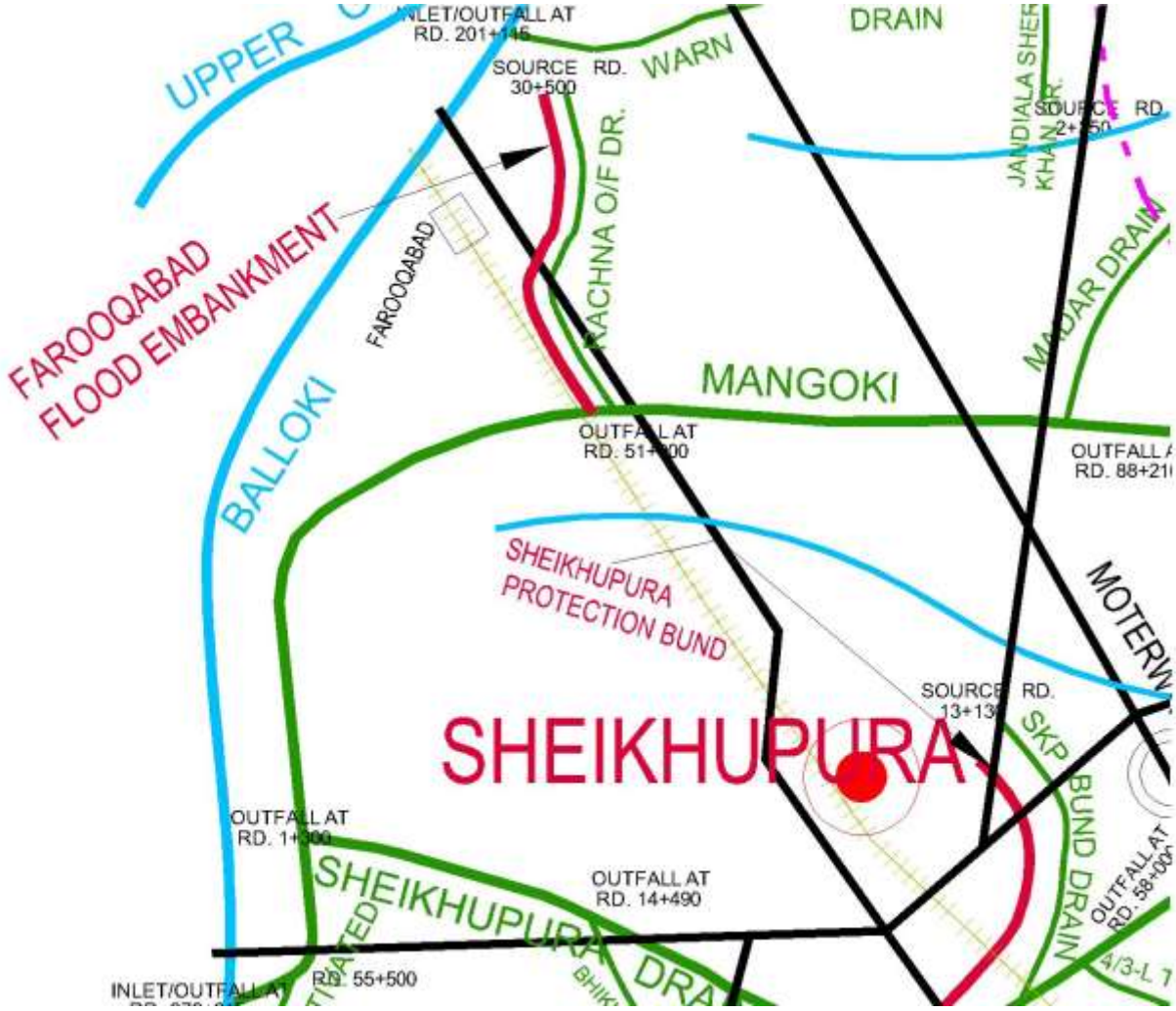
A protection bund has been constructed along right bank of Rachna Outfall drain from the point where it joins Mangoki drain i.e. RD 106,000 and extends to RD 123,000 to provide protection to Sheikhupura – Sargodha Road and Farooqabad Town. Top width is 10 ft and side slope 1.5:1 on either side. The highest flood level was recorded 681.00 ft. during the year 1975.

Deg Diversion Flood protection Bund along Deg Diversion Channel to protect Adjoining abadies.

A protection bund has been constructed along right bank of Deg Diversion Channel from RD 0+000 – 87+300 and extend up to River Rave from R.D 89+300 to provide protection of adjoining abadies, standing crops net economy yields along with other infrastructures. Top width is 25 ft and side slope 2:1 on both sides. The highest flood level was recorded 669.32 ft. during the year 1988.

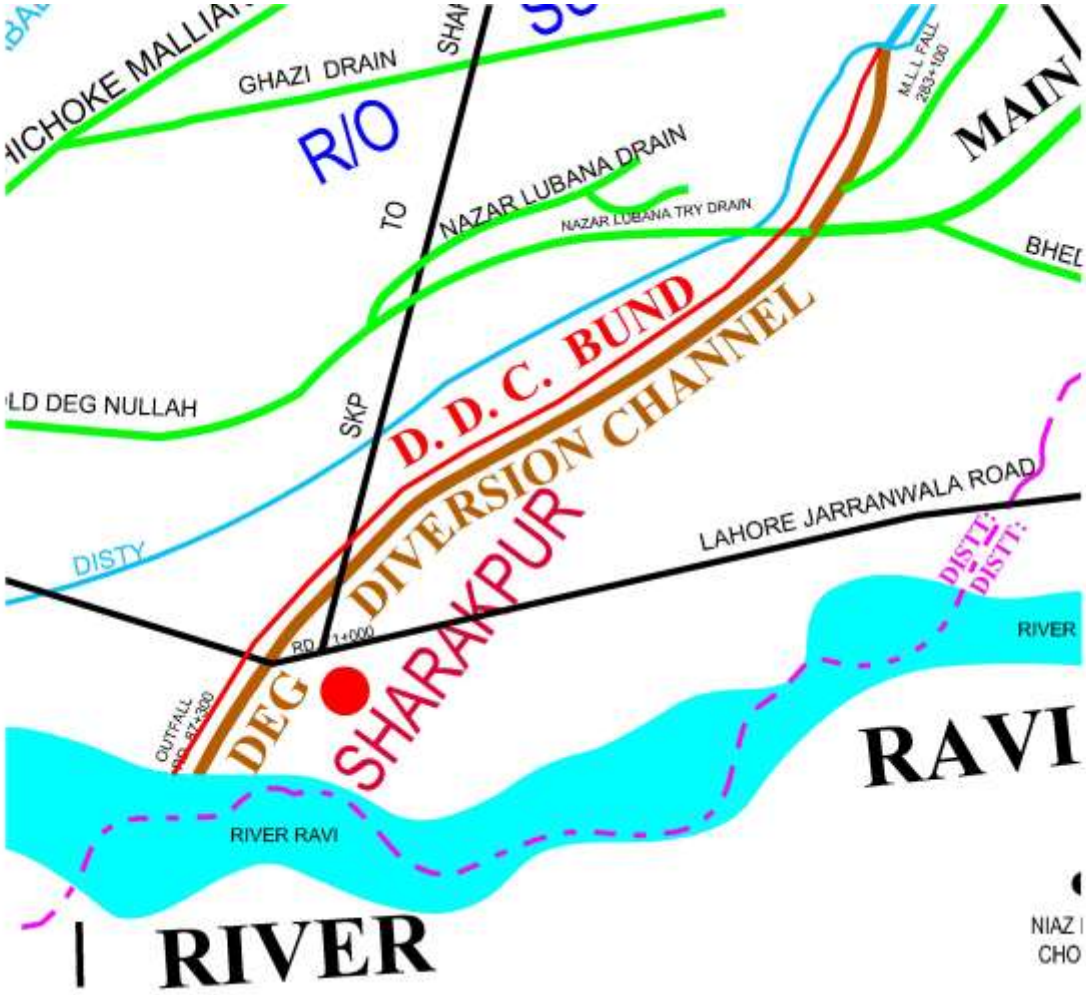
2.2 Location Map

Location Map Showing Bund Along Rachna Outfall Drain in Mangoki Drainage Sub Division.



2.2 Location Map

Location Map Showing Deg Diversion Bund along Deg Diversion Channel in Rachna Outfall Drainage Sub Division.



Chapter – 3

Brief History of Past Flood Events

Sheikhupura District had experienced worst flood during the year 1959. Drains in the area over flew and floodwater entered into Sheikhupura City causing devastation. Other high floods had been faced during 1973 and 1976, damaging the crops badly and human settlements. In 1988, exceptionally high flood in the River Ravi threatened the humen life and property of inhabitants of Sheikhupura District, especially Tehsil Ferozewala. During 1997, the area received heavy downpour to the extent of 283 mm within 48 hours in the last week of August, created havoc in the entire District due to newly constructed Motorway, which erupted the natural flood plain, causing heading up of the surface run off and inundated vast area and was alarmed to human life. Accumulative surface run off found its way through the drains, which had lost their carrying capacity due to deferred maintenance for the last couple of years. The drains flow all along Motorway to their outfalls and floodwater entered into the abadies of Sheikhupura City. This flood water damaged Sheikhupura – Faisalabad Road badly.

FLOOD 2014.

DEG NULLAH

On 6th September morning, exceptional high discharge of 75102 Cs was recorded in the Deg Nullah at Kingra Bridge but the full effect of this flood could not approach the reach of Nullah under the jurisdiction of this Division due to occurrence of breaches in the upper reach of Narowal. Flood water passed without making any considerable damages through the channelized reach of Nullah having capacity of 12000 Cs from BRBD canal to Muridke-Narowal road. Upstream of BRBD canal and downstream of Muridke-Narowal road up to its outfall where Nullah is not channelized, flood water spilled over and huge damages were occurred. Vast area of Tehsil Muridke, Ferozwal and Sheikhupura inundated not only due to this flood water but sheet flow from breached sites of Narowal contributes much to make the conditions more worst and developed breaches in the Deg.

FLOOD 2015.

No emergency has been experienced during flood 2015. All the structures, embankments remained quite safe against flood.

FLOOD 2016.

During rainy / flood season 2016, mostly normal rain fall was observed except on July 28, & August 7, 2016. The sheet flow / rainy water in the Nullahs & drains was received too enough due to the rain fall in the catchment area and in Jammu & Kashmir on July 28 & August 7, 2016. The discharge in Deg Nullah was observed at Kingra Bridge 35948 Cusec.

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FLOOD 2017.

During rainy / flood season 2017, mostly normal rain fall was observed in District Sheikhupura and heavy rain fall observed in District Gujranwala and Narowal and Rachna Drainage Division effected excessive discharge of District Sialkot Drains and Nullahs which ultimately entered in to the Jurisdiction of Rachna Drainage Division Sheikhupura and the sheet flow / rainy water in the Nullahs & drains was received too enough due to the rain fall in the catchment area in Jammu & Kashmir on July & August 2017.

The highest discharge in Deg Nullah was observed 15900 Cs on 02-08-2017 and it resulted out flanked water from various places and it timely controlled.

The highest discharge in Nikki Deg Drain was observed 6800 Cs on 02-08-2017 it resulted out flanked water from various places and damages to crops by out flanked water Nikki Deg Drain from R.D 186+000 – 187+000/R near Village Ladhawala Virkan and Tamboli but it timely controlled. The existing full capacity level of the drain is higher side to NSL. Due to normal rains in area of District Sheikhupura Laila & Bhed Drain flows normally and smoothly.

FLOOD 2018

The highest discharge in Deg Nullah was observed 19170 Cs on 23-09-2018 at Kingra Bridge and it resulted out flanked water from various places in villages Changi, Kotli Baba Heera, Mianwali Bangla, Satrah and khery Sokin Wind in District Sialkot which was timely controlled and no damage occurred in District Gujranwala & Sheikhupura.

Remodelling of Nikki Deg Drain is in progress and critical reaches were taken up so the flood water passes safely during flood season.

Due to normal rains in area of District Sheikhupura Laila & Bhed Drain flows normally and smoothly.

FLOOD 2019.

No emergency has been experienced during flood 2019. All the structures, embankments remained quite safe against flood.

FLOOD 2020.

No emergency has been experienced during flood 2020. All the structures, embankments remained quite safe against flood.

FLOOD 2021.

No emergency has been experienced during flood 2021. All the structures, embankments remained quite safe against flood.

FLOOD 2022.

No emergency has been experienced during flood 2022. All the structures, embankments remained quite safe against flood.

FLOOD 2023.

No emergency has been experienced during flood 2023. All the structures, embankments remained quite safe against flood.

FLOOD 2024.

No emergency has been experienced during flood 2024. All the structures, embankments remained quite safe against flood.

FLOOD 2025.

During rainy / flood season 2025, Kingrah Bridge received 77742 Cs: of Flash flooding from Jammu and Kashmir on 26.08.2025 at the same time heavy rain fall occurred in the catchment area of the local drainage system. The strata of the whole area are sandy / alluvial and due to the flash flooding, berms / banks eroded at different points in whole reach of Nullah Deg, Bhed Nullah, DDC & DDC Bund, Mardana Drain, Chichiki Mallian Drainage System & Nikki Deg Drain. At many points the excessive water was spilled out from the banks of channel, but by the efforts of flied formation, effectively machinery was deployed and the flood water was contained by providing the additional dowels at different points of the banks but restoration of these channels is utmost required before coming flood season.

Chapter – 4

Design Data, Historic Peak Flood Data & Previous Five Years Flood Data of Head Works / Barrages and Other Control Points

4.1 Flood Limits

Not Related

4.2 Time Lags of Floods

Not Related

4.3 Highest Floods

Not Related

4.4 Peak discharges

Not Related

Chapter – 5

Flood Fighting Strategy

Flood Embankments / Protection Bunds

Bunds along drains are not designed to provide protection against the rivers but to check spills from drains. Accordingly, less watching arrangement are required as compared to that on rivers.

Farooqabad Flood Embankment

Sub Divisional Officer, Mangoki Drainage Sub Division, Sheikhupura along with Sub Engineer, Farooqabad Drainage section will be In-charge of watching operation. A camp will be established at crossing point of Rachna Outfall Drain at Sargodha road and will have necessary watching material. Day & night watching operation will be exercised during heavy rains.

Deg Diversion Flood Protection Bund

Sub Divisional Officer, Rachna Outfall Drainage Sub Division, Sheikhupura along with Sub Engineer, Chichoki Mallian Drainage section will be In-charge of watching operation. A camp will be established at R.D 39+000 Crossing of Sheikhupura – Sharqpur Road and will have necessary watching material. Day & night watching operation will be exercised during heavy rains.

Nikki Deg Drain

Sub Divisional Officer, Rachna Outfall Drainage Sub Division along with Sub Engineer Harpoke Drains section from Outfall to G.T Road Gujranwala will be in-charge of watching operation. One number watching camp will be established at Sakham Village and will have necessary watching material. Day & night watching operation will be exercised during floods.

Main Deg Nullah

Sub Divisional Officer, Rachna Outfall Drainage Sub Division & Sub Divisional Officer Muridke Drainage Sub Division Muridke along with concerned Sub Engineer's from Outfall to Muridke – Narowal Road will be in-charge of watching operation. One number watching camp will be established near S.A Garden G.T Road and will have necessary watching material. Day & night watching operation will be exercised during floods.

Drains

While the construction of Motorway, Lahore – Islamabad section (M-2), surface runoff accumulates along Motorway and finds its way through existing drains having less carrying capacity which resulted into overflowing at weak points. Worst situation was faced during heavy rains in monsoon of 1997, Sheikhupura drain was over flowed at many places and storm water entered in Sheikhupura City and damaged public property. To avoid such situation, the abandoned Rachna outfall drain was reactivated to give relief at outfall point of Sheikhupura drain.

For watching arrangement, a camp will be established at Sheikhupura – Faisalabad Pacca Road crossing under the supervision of Sub Divisional officer, Mangoki Drainage Sub Division, Sheikhupura and Sub Engineer, Jhamke section. Necessary watching material such as lanterns, Axes, Torches, Kassi etc, will be arranged. Day & night watching will be arranged in 3 shifts in case of heavy rainfall and heading up of flow in Sheikhupura drain. Civil Administration of Sheikhupura City will be informed accordingly well in time for assistance by Sub Divisional Officer In-charge.

To improve the outfall capacity of the Mangoki Main Drain, the abandoned Rachna out fall Drain was activated during the year 2003 to avoid the situation that happened during the year 1997.

General

All the Sub Divisional Officers will keep a close liaison with Executive Engineer, Rachna Drainage Division, Sheikhupura and Civil Administration. They being responsible for respective jurisdiction will take proper action to cope with the alarming situation. They will arrange communication of rainfall / flood position and colossal damages, to all concerned quarters. The rain gauges and flow position in various drains especially Sheikhupura and Mangoki drains below Motorway will be regularly recorded under their supervision through regular establishment in normal season and through work charge gauge readers in case of flood / rains. Sub Divisional Officer In-charge may direct other Sub Engineers to shift their camps at vulnerable points along with their establishment.

Municipal Committee Sheikhupura will be responsible for checking overflow from Sheikhupura drain, passing through the City area, by making necessary arrangements such as raising bank level along right bank of drain and arranging earth filled jute bags

during rainy season. Local bodies will consult drainage staff for technical guidance and hydrological data required for fixing optimum top level of right bank along Sheikhupura Drain.

Chapter – 6

Flood Damages Restoration Works

During rainy / flood season 2025, Kingrah Bridge received 77742 Cs: of Flash flooding from Jammu and Kashmir on 26.08.2025 at the same time heavy rain fall occurred in the catchment area of the local drainage system. Due to the reason below mentioned drainage system / Nullahs damaged badly which needs restoration for smooth flowing of flood water. The competent authority sanctioned the estimate of these work after approval as well as fulfilment of all codal / procedural formalities Detail of works is as under: -

1. Restoration of Chichoki Mallian Drainage System.
2. Restoration of Deg Diversion Channel and DDC Flood Protection Bund R.D 0+000 - 89+300.
3. Restoration of Mardana Drain R.D 0+000 - 33+000.
4. Restoration of Bhed Drain R.D 85+000 - 261+000.

Chapter – 7

Flood Fighting Watching Arrangement

7.1 Pre-Flood Arrangement

1. Only one flood Embankment i.e. Farooqabad Flood Embankment in the Division will be inspected by the field formation and Executive Engineer Rachna Drainage Division Sheikhupura to check the condition of bund.

2. Arrangements for the establishment of flood centres in the office of Executive Engineer, Rachna Drainage Division, Sub Divisional Officer Mangoki Drainage Sub Division, Sub Divisional Officer Muridke Drainage Sub Division Muridke and Sub Divisional Officer R/O Drainage Sub Division will be finalized.

3. All flood fighting material and work charge establishment arrangements will be framed well before the flood season.

4. No reserve stock for stone is sanctioned, hence no stone available.

7.2 Watching Establishment

Flood watching establishment will be employed as per site requirements and weather conditions from 15/06/2026 to 15/10/2026.

Sr. No.	Structure Name	Length (Miles)	Flood Limits							
			Normal Flood Season		Low Flood		Medium / High Flood		Very High / Exp. High Flood	
			Men	Shift	Men	Shift	Men	Shift	Men	Shift
			1 Person / 2 Mile (1 Shift)		1 Person / Mile (1 Shift)		2 Person / Mile (2 Shift)		5 Person / Mile (3 Shift)	
1	Mangoki Drain	3.00	2	1	3	1	6	2	15	3
2	DDC Bund	17.86	9	1	18	1	36	2	90	3
3	Nikki Deg Drain	29.92	15	1	30	1	60	2	150	3
4	Main Deg Nullah	36.78	19	1	37	1	74	2	185	3
5	Sheikhupura Drain	1.60	1	1	2	1	4	2	8	3
6	Bhed Drain	52.20	26	1	52	1	104	2	260	3
Total			**72**		**142**		**568**		**2124**	

7.3 Arrangement at Sensitive Sites.

(i) The normal strength for watching at sensitive sites along flood protection Bund and Drains / Nullahs will be increased two or three time during high flood / exceptionally high flood on need bases.

(ii) The establishment can be increased after consultation with Superintending Engineer, Lahore Drainage Circle, Lahore in emergency & in accordance with site requirements.

The same establishment will be responsible for maintenance of flood bunds and drains / Nullahs during flood season. Establishment will also be responsible for filling gharas / rain cuts etc as occurred due to rains during the monsoon season.

Established Camps Details							
Sr. No.	**Structure Name**	**Length (Miles)**	**Vulnerable sites**		**No. of Camps Established Except Vulnerable Points**		
					Normal Flood season/Low Flood	**Medium/High Flood**	**Very High/Exp. High Flood**
			Reach	**No. of Camps**	**15 Miles**	**7 Miles**	**5 Miles**
1	Mangoki Drain	3.00	0+000	1	0	0	0
2	Deg Diversion Channel	17.86	39+000	1	0	0	0
3	Nikki Deg Drain	29.92	97+000	1	1	3	5
4	Deg Nullah	36.78	103+000	1	1	4	6
5	Sheikhupura Drain	1.60	57+000	1	0	0	0
6	Bhed Drain	52.20	73+826	1	2	6	9
Total				**6**	**4**	**13**	**20**

7.4 Watching Material

Minimum requirement of Flood Fighting Material for Permanent Camp.

Sr. No.	Item	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari / Tent	No	01	-	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	-	06	
3	Table	No	01	-	01	
4	Generator (2-3 KVA)	No	01	-	01	
5	Pedestal Fans	No	01	-	01	
6	Charpois	No	02	-	02	
7	Symbolic Jackets	No	50	-	50	
8	Polyethene Sheet	Kg	100	-	100	
9	Bamboos (4” dia and 10 ft long)	No	100	-	100	
10	Water Coller	No	01	-	01	
11	Portable Umbrella	No	02	-	02	
12	Life Jackets	No	05	-	05	
13	Utensils (10 person serving)	No	01	-	01	
14	Jute/Plastic bags	No	1000	-	1000	
15	Walke Talkie Set	Sets	02	-	02	
16	Raincoats	No	10	-	10	
17	LED flood light	No	10	-	10	
18	Extension Cable (10 ft)	No	02	-	02	
19	Rechargeable Torches	No	20	-	20	
20	Kassi	No	20	-	20	
21	Axes	No	20	-	20	
22	G.I Buckets	No	05	-	05	
23	7/44 Cable	Feet	500	-	500	
24	Sutli	Kg	02	-	02	
25	Sewing Needles	No	10	-	10	
26	Emergency Medical Kit	No	01	-	01	
27	Wire crates (3x3x3) (at only those camp near river action and reserve stock exists)	No	-	-	-	

Minimum requirement of Flood Fighting Material for Temporary Camp.

Sr. No.	Item	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari / Tent	No	01	-	01	Outsourced
2	Walke Talkie Set	Sets	01	-	01	
3	Chairs	No	06	-	06	
4	Raincoats	No	10	-	10	
5	Table	No	01	-	01	
6	LED flood light	No	10	-	10	
7	Generator (2-3 KVA)	No	01	-	01	
8	Extension Cable (10 ft)	No	02	-	02	
9	Pedestal Fans	No	01	-	01	
10	Rechargeable Torches	No	20	-	20	
11	Charpois	No	02	-	02	
12	Kassi	No	20	-	20	
13	Symbolic Jackets	No	50	-	50	
14	Axes	No	20	-	20	
15	Water Coller	No	01	-	01	
16	G.I Buckets	No	05	-	05	
17	Portable Umbrella	No	02	-	02	
18	7/44 Cable	Feet	500	-	500	
19	Utensils (10 person serving)	No	01	-	01	
20	Sutli	Kg	02	-	02	
21	Jute/Plastic bags	No	500	-	500	
22	Sewing Needles	No	10	-	10	

7.5 Arrangement for Sounding & Probing

Not related.

7.6 Lighting Arrangement

Detail given in the list of watching material at sr. No. 7.4 above.

7.7 Ration Arrangement

The Food Department will mobilize their sources for supplying foods for Human and cattle population.

7.8 P.O.L Arrangement for Vehicle

P.O.L facilities / arrangements will be made by the Civil Administration.

7.9 Transportation

Transportation facilities will be provided by the Civil Authorities

7.10 Law and order

Law and order situation will be tackled by the Civil Administration with the help of Police Department.

7.11 Medical arrangement for Labour

Health Department will be responsible for mobilizing their sources to carrying out necessary operation for providing medical facilities to the labour.

7.12 Liaison with other Departments

All the flood embankments / bunds are required to be inspected during the month of March, so as to identify weak points and if necessary, after repairing such sites, the Certificate regarding hydraulic fitness of bunds is to be submitted.

The flood embankments are inspected by a committee constituted by the Secretary Irrigation Department in May every year. Fitness of bunds is ensured before the flood season, keeping in view the priorities are fixed according to resources.

The Executive Engineer, Rachna Drainage Division, Sheikhupura and Sub Divisional Officer Mangoki Drainage Sub Division Sheikhupura will keep close liaison with the District Administration of Sheikhupura District during flood season.

7.13 Role of the Army

Army shall be deployed through District Administration if deemed necessary.

7.14 Duties of Telephone Attendant

The duties of telephone attendant are to apprise the Department / Civil Administration about the flood situation during the rain / flood season i.e 15-06-2026 to 15-10-2026.

7.15 Wireless Arrangements

Wireless system / arrangement will be made available for the vehicles under use of Officers of Rachna Drainage Division during the period of 15th June 2026 to 15th October 2026.

Chapter – 8

Detail of Encroachment

There is no encroachment on flood bunds / embankments in the jurisdiction of Rachna Drainage Division Sheikhupura.

Total No. of Encroachment	Removed	Balance	Action to be taken
Nil	Nil	Nil	Nil

Chapter – 9

Duty Roster/ Flood Fighting Program

Staff of Rachna Drainage Division Sheikhupura, looking after flood bunds and drains, has to be very vigilant throughout the monsoon season and set on alert during day and night from 15th June up to 15th October. The flood watching camps are to be established with the onset of monsoon season at vulnerable points with adequate materials and arrangements to cope with any flood / rain emergency. The concerned Sub Divisional officers are responsible for reporting about any mishaps to the Executive Engineer, Superintending Engineer, Chief Engineer and Secretary Irrigation Department. It is also the duty of Sub Divisional officer to deliver written messages well in time, to the District Administration concerned about the flood / weather forecast, flood situation and any other mishaps.

Mangoki Drainage Sub Division

1.	Sub Divisional Officer	Sheikhupura – Faisalabad Pacca Road Crossing on Q.B. Link Canal.
2.	Sub Engineer Jhamke	-do-
3.	Sub Engineer Farooqabad	-do-

Additional daily labour will be employed as and when necessary, according to requirement. The Camp sites have been shown on index plan.

An additional strength of nearly 300 voluntary labour is required to be made available by Assistant Commissioner Sheikhupura in case of emergency on following bunds / drains.

1. Sheikhupura drain to check spill from drain and human settlements of Sheikhupura City.
2. Bund along Rachna Outfall Drain near Farooqabad Town for its protection against rain / flood water.

These labours will be arranged from Sheikhupura City, Farooqabad Town and Factories along Sheikhupura – Faisalabad Road respectively. One Assistant Sub

Inspector of Police with four Constables are required to be made available for arranging voluntary labours on above mentioned sites and to assist in watching operation as and when required.

Sub Divisional Officers Rachna Outfall Drainage Sub Division and Mangoki Drainage Sub Division will maintain close liaison with Civil Administration, Sheikhupura and keep them informed about the rain / flood position on bunds and drains and ask them for voluntary labour as and when required. They will also make arrangements for the stores required at camp sites.

Sub Divisional Officers will also inform the Civil Administration for any flood / rain emergency and damages. Civil Administration and revenue field staff will require facilitating evacuation of the area likely to be submerged due to spillage of drains.

Similarly, health and live Stock & Dairy Development Departments will also mobilize their resources for carrying out necessary operation for the health hazard likely to be created by the rains / flood for human and live stock. Food Departments will be responsible to cater for food requirement of flood / rain affected people. Police and revenue staff will coordinate the staff of Drainage Division for the purpose of timely evacuation of the public.

Communication & Works Department (Highways Division Sheikhupura) will also be required to keep the bridges and other cross Drainage works clean well before the onset of monsoon season, to provide free, without interruption, speedy disposal of storm / flood water.

WAPDA staff will also be required to be very vigilant in case of floods / rains to take care against accidents and break downs in the affected areas.

Chapter – 10

Emergency Telephone Nos.

SR. NO.	DESIGNATION	OFFICE	RESIDENCE
1	Secretary, Irrigation Punjab	042-99212117-18 Fax: 042-99212116	042-99200954
2	Chief Engineer, Irrigation Lahore Zone	042-99212085-86 Fax: 042-99212084	042-35182339
3	Chief Engineer, D&F Punjab, Lahore.	042-99230602 Fax: 042-99230731	
4	Superintending Engineer, L.D.C. Lahore	042-99250309	0300-4283627
5	Executive Engineer, U.C.C. Division Sheikhupura	056-9200253	056-9200253
6	Wireless Control, Sheikhupura	056-9200110	-
7	Executive Engineer, Rachna Drainage Division Sheikhupura.	056-9200250	M. Zain Malik 0300-9633388
8	District Co-ordination Officer, Sheikhupura.	056-9200150-51	056-9200152 056-9200153
9	Sr. Superintendent of Police, Sheikhupura.	056-9200101 056-9200104	056-9200105
10	Assistant Commissioner, Sheikhupura.	056-9200165	0345-9262102
11	Assistant Commissioner, Ferozewala.	042-7930777	0345-9262103
12	District Headquarters Hospital, Sheikhupura.	056-9200234	-
13	Medical Superintendent, District Hospital S.K.P.	056-9200231	0300-4258938
14	Executive Engineer, Highway Div: S.K.P.	056-9200058	056-9200192
15	Executive Engineer, WAPDA Div: S.K.P.	056-9200244	-
16	Executive Engineer, Building Sheikhupura.	056-9200061-62	0323-4266823
17	Director Flood, D&F Punjab, Lahore.	042-99231614	0300-6999490
18	Flood Warning Centre Lahore.	042-7572091-4	-
19	Flood Warning Centre of Irrigation, S.K.P.	056-9200252	056-9200253

20	Sub Divisional Officer Rachna Out Fall Drainage Sub Division, Sheikhupura.	056-9200250	Haroon Shabir 0333-4261693
21	Sub Divisional Officer Mangoki Drainage Sub Division, Sheikhupura.	056-9200250	Muaaz Bashir 0305-6123892
22	Sub Divisional Officer Muridke Drainage Sub Division Muridke.	-	Miraj Din 0307-4915529
23	District Co-ordination Officer, Gujranwala.	055-9200051-52	055-9200024-25
24	Assistant Commissioner, Gujranwala.	055-9200056	-

Chapter – 11

Standard operating procedure (SOP) for Breaching Sections

11.1 History of the Breaching Section

There is no approved breaching section in the jurisdiction of Rachna Drainage Division Sheikhupura.

11.2 Location, Design, Quantity and Variety of the explosive required for detonation.

Not Related.

11.3 Arrangement of explosives and security of explosive stores

Not Related.

11.4 List of security staff along with detail of their training etc

Not Related.

11.5 Detail of Mechanical means as a standby arrangement in case of detonation failure.

Not Related.

11.6 Duty Roster in case of critical situation

Not Related.

11.7 Breaching Committee with their action plan

Not Related.

11.8 List of the villages likely to be inundated in case of breach

Not Related.

11.9 Announcement and detail of evacuation arrangements

Not Related.

11.10 Details of coordination with Civil/ Army Authorities

Not Related.

11.11 Parallel Communication arrangements

Not Related.

11.12 Index Plan

Index plan of the Rachna Drainage Division Sheikhupura is attached.

Superintending Engineer,
Lahore Drainage Circle,
Lahore.

Executive Engineer,
Rachna Drainage Division,
Sheikhupura.

Chief Engineer,
Irrigation Lahore Zone,
Lahore.

PART – B

Chapter – 12

Vulnerable Sites on Flood Bund / Structures.

12.1 Apprehended breaches in Flood Bunds/ Structures.

The following are the sites of Drains in District Sheikhupura.

District Sheikhupura.

Site No. 1 Mangoki Drain in Outfall Reach RD 0+000.

Site No. 2 Deg Diversion Bund R.D 39+000**.**

Site No. 3 Nikki Deg Drain RD 97+000.

Site No. 4 Main Deg Nullah R.D 103+000.

Site No. 5 Sheikhupura Drain R.D 57+000.

Site No. 6 Bhed Drain R.D 73+826.

12.2 Operation of breaching sections.

There is no breaching section exist in this Division.

12.3 Breaches due to rising of flood water, deterioration of flood bunds etc.

Not related.

Chapter – 13 (Site # 1)

NAME OF SITE: - **MANGOKI DRAIN AT OUTFALL POINT R.D 0+000**

Emergency Contingency Plan for vulnerable site.

13.1 Plan showing route of flood water coming out of the breach supported with levels.

Plan Attached

13.2 Detail of villages abadies likely to be affected and this should also be shown on the plan.

Site No. 1

Mangoki Drainage Sub Division

i)	Village	=	Bhikhi
	Abadi	=	15000 person

13.3 Strategy and action taken be explained in detail.

Strategy to be adopted has been explained in detail in chapter 5 of flood fighting plan.

13.3.1 Arrangements

13.3.2 Establishment of Flood Fighting Camps

The following camps are various places: -

TEMPORARY CAMP SITES.

Following are the camps sites at Mangoki Drain
1. Outfall point at R.D 0+000.

13.3.3 Duties of Officer / Officials and Their Camp Sites.

Camp No.	Location	Officer (Name/Designation/ Mobil No.)	Official (Name/Designation/ Mobil No.)
1.	R.D 0+000 Mangoki Drain	Ghulam Abbas Sub Engineer 0334-4959080	Mohammad Adeel Beldar 0310-4193970

13.3.4 Departmental Machinery available

Required Machinery has been intimated.

13.3.5 Machinery available from Private Source.

Site No. 1 Mangoki Drainage Sub Division

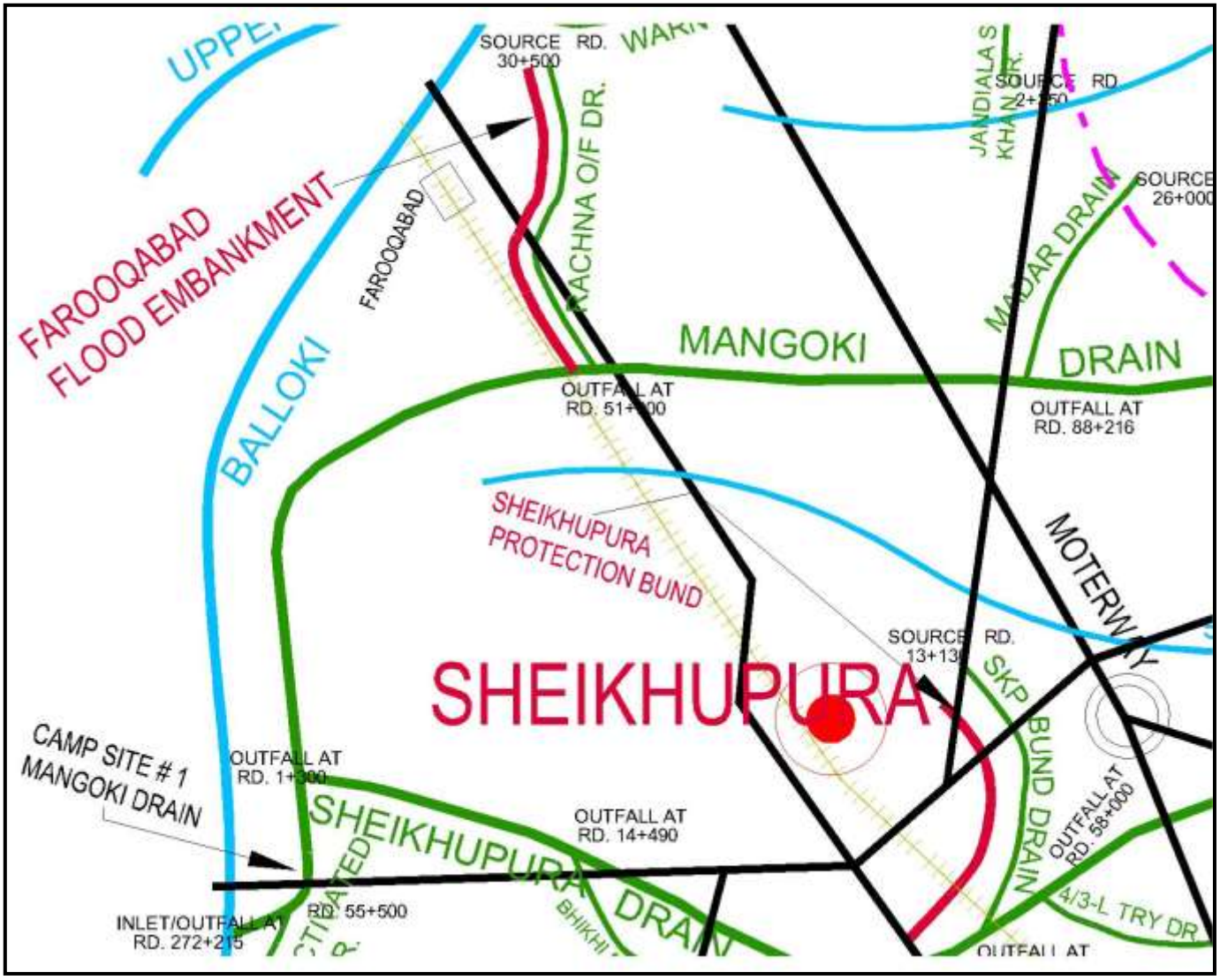
i)	Name of owner: -	Mian Naveed
	Contact No: -	0308-4516061
	Location: -	Sheikhupura
	Excavator Machine	02 Nos
	Tractor with Front Blade	02 Nos
	Tractor with Trollies	04 Nos

13.3.6 Flood Fighting Material required.
13.3.7 Flood Fighting Material available

Sr. No.	Item	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari / Tent	No	01	-	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	-	06	
3	Table	No	01	-	01	
4	Generator (2-3 KVA)	No	01	-	01	
5	Pedestal Fans	No	01	-	01	
6	Charpois	No	02	-	02	
7	Symbolic Jackets	No	50	-	50	
8	Polyethene Sheet	Kg	100	-	100	
9	Bamboos (4” dia and 10 ft long)	No	100	-	100	
10	Water Coller	No	01	-	01	
11	Portable Umbrella	No	02	-	02	
12	Life Jackets	No	05	-	05	
13	Utensils (10 person serving)	No	01	-	01	
14	Jute/Plastic bags	No	1000	-	1000	
15	Walke Talkie Set	Sets	02	-	02	
16	Raincoats	No	10	-	10	
17	LED flood light	No	10	-	10	
18	Extension Cable (10 ft)	No	02	-	02	
19	Rechargeable Torches	No	20	-	20	
20	Kassi	No	20	-	20	
21	Axes	No	20	-	20	
22	G.I Buckets	No	05	-	05	
23	7/44 Cable	Feet	500	-	500	
24	Sutli	Kg	02	-	02	
25	Sewing Needles	No	10	-	10	
26	Emergency Medical Kit	No	01	-	01	
27	Wire crates (3x3x3) (at only that camp near river action and reserve stock exists)	No	-	-	-	

EXPECTED ROUTE OF THE FLOOD WATER IN CASE OF FAILUR-E OF STRUCTURE

(Site # 1, Mangoki Drain)



13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network.

Canals

i) Qadirabad Balloki Link Canal.

Roads

i) Sheikhupura – Faisalabad Road.

Health Centre

i) Rural Health Centre Sheikhupura.

Police Station

Bhikhi

Telephone Exchange

-

Army infrastructure

-

Grid Station.

Chapter – 13 (Site # 2)

NAME OF SITE:- **DDC BUND AT R.D 39+000 CROSSING SHEIKHUPURA – SHARQPUR ROAD.**

Emergency Contingency Plan for vulnerable site.

13.1 Plan showing route of flood water coming out of the breach supported with levels.

Plan Attached

13.2 Detail of villages abadies likely to be affected and this should also be shown on the plan.

Site No. 2

Rachna Outfall Drainage Sub Division

i) Village = Nazar Lubana, Kot Mehmood, Khan Bazigar, Nazam Pura, Noor Pur Arrainian, Faiz Pur & Badoke etc:

ii) Abadi = 35000 person

13.3 Strategy and action taken be explained in detail.

Strategy to be adopted has been explained in detail in chapter 5 of flood fighting plan.

13.3.1 Arrangements

13.3.2 Establishment of Flood Fighting Camps

The following camps are various places:-

TEMPORARY CAMP SITES.

Following are the camps sites at DDC Bund.
1. R.D 39+000.

13.3.3 Duties of Officer / Officials and Their Camp Sites.

Camp No.	Location	Officer (Name/Designation/ Mobil No.)	Official (Name/Designation/ Mobil No.)
1.	R.D 39+000 DDC Bund.	Imdad Hussain Sub Engineer 0323-4161416	Mohammad Ashraf Beldar 0312-5969984

13.3.4 Departmental Machinery available

Required Machinery has been intimated.

13.3.5 Machinery available from Private Source.

Site No. 2 Rachna Outfall Drainage Sub Division

i)	Name of owner: -	Ramzan Enterprises
	Contact No: -	0300-6896737
	Location: -	Lahore
	Excavator Machine	05 Nos
	Tractor with Front Blade	05 Nos
	Tractor with Trollies	06 Nos

13.3.6 Flood Fighting Material required
13.3.7 Flood fighting Material available

Sr. No.	Item	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari / Tent	No	01	-	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	-	06	
3	Table	No	01	-	01	
4	Generator (2-3 KVA)	No	01	-	01	
5	Pedestal Fans	No	01	-	01	
6	Charpois	No	02	-	02	
7	Symbolic Jackets	No	50	-	50	
8	Polyethene Sheet	Kg	100	-	100	
9	Bamboos (4” dia and 10 ft long)	No	100	-	100	
10	Water Coller	No	01	-	01	
11	Portable Umbrella	No	02	-	02	
12	Life Jackets	No	05	-	05	
13	Utensils (10 person serving)	No	01	-	01	
14	Jute/Plastic bags	No	1000	-	1000	
15	Walke Talkie Set	Sets	02	-	02	
16	Raincoats	No	10	-	10	
17	LED flood light	No	10	-	10	
18	Extension Cable (10 ft)	No	02	-	02	
19	Rechargeable Torches	No	20	-	20	
20	Kassi	No	20	-	20	
21	Axes	No	20	-	20	
22	G.I Buckets	No	05	-	05	
23	7/44 Cable	Feet	500	-	500	
24	Sutli	Kg	02	-	02	
25	Sewing Needles	No	10	-	10	
26	Emergency Medical Kit	No	01	-	01	
27	Wire crates (3x3x3) (at only those camp near river action and reserve stock exists)	No	-	-	-	

EXPECTED ROUTE OF THE FLOOD WATER IN CASE OF FAILUR-E OF STRUCTURE

(Site # 2, DDC Bund)



13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network.

Canals

Sikhanwala Disty: Lower.

Roads

Lahore – Jaranwala Road.

Health Centre

Rural Health Centre Shaqpur.

Police Station

Sharqpur

Telephone Exchange

-

Army infrastructure

-

Grid Station.

-

Chapter – 13 (Site # 3)

NAME OF SITE:- NIKKI DEG DRAIN NEAR VILLAGE SAKHAM AT R.D 97+000.

Emergency Contingency Plan for vulnerable site.

13.1 Plan showing route of flood water coming out of the breach supported with levels.

Plan Attached

13.2 Detail of villages abadies likely to be affected and this should also be shown on the plan.

Site No. 3

Rachna Outfall Drainage Sub Division

i) Village = Sakham

ii) Abadi = 12000 person

13.3 Strategy and action taken be explained in detail.

Strategy to be adopted has been explained in detail in chapter 5 of flood fighting plan.

13.3.1 Arrangements

13.3.2 Establishment of Flood Fighting Camps

The following camps are various places: -

TEMPORARY CAMP SITES.

Following are the camps sites at Nikki Deg drain.
1. R.D 97+000.

13.3.3 Duties of Officer / Officials and Their Camp Sites.

Camp No.	Location	Officer (Name/Designation/ Mobil No.)	Official (Name/Designation/ Mobil No.)
1.	R.D 97+000 Nikki Deg Drain.	Mohsin Fareed Sub Engineer 0323-4551669	Mohammad Sajid Beldar 0317-4878780

13.3.4 Departmental Machinery available

Required Machinery has been intimated.

13.3.5 Machinery available from Private Source.

Site No. 3 Rachna Outfall Drainage Sub Division

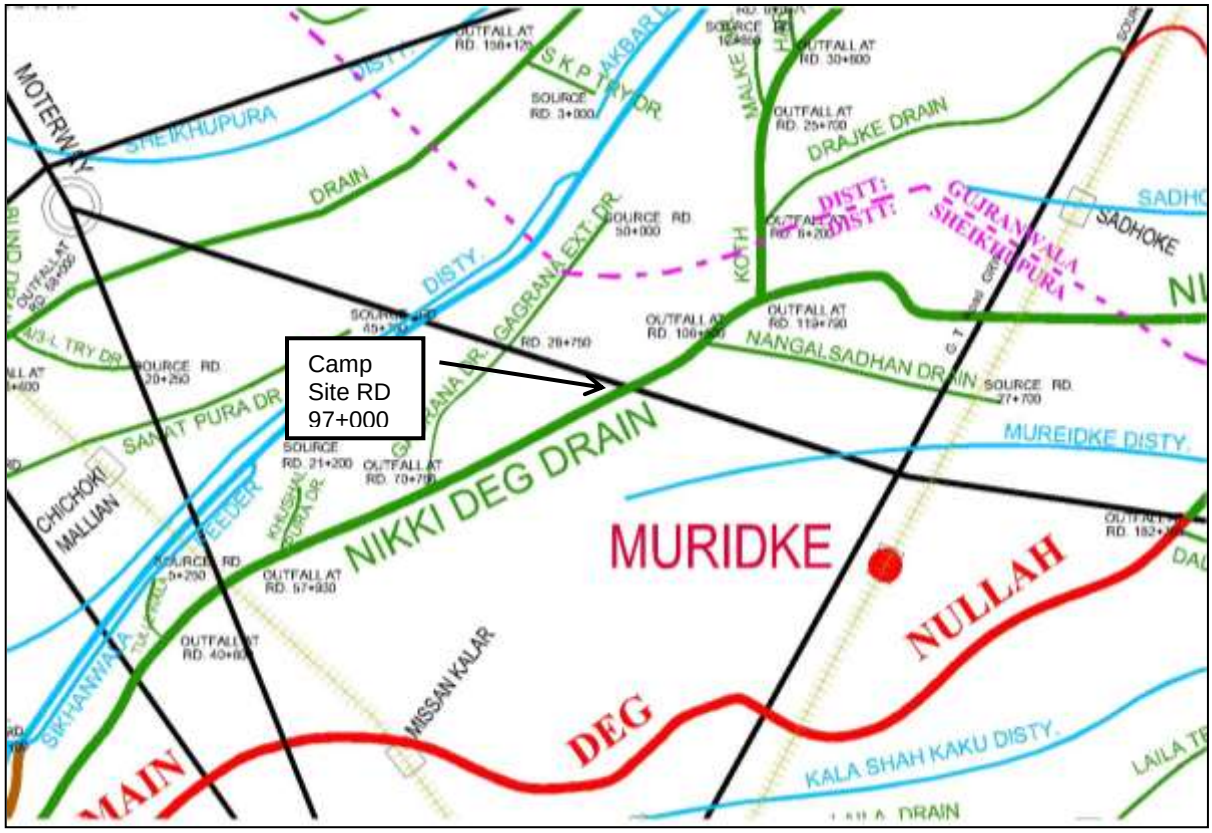
ii)	Name of owner: -	Ramzan Enterprises
	Contact No: -	0300-6896737
	Location: -	Lahore
	Excavator Machine	05 Nos
	Tractor with Front Blade	05 Nos
	Tractor with Trollies	06 Nos

13.3.6 Flood Fighting Material required.
13.3.7 Flood fighting Material available

Sr. No.	Item	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari / Tent	No	01	-	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	-	06	
3	Table	No	01	-	01	
4	Generator (2-3 KVA)	No	01	-	01	
5	Pedestal Fans	No	01	-	01	
6	Charpois	No	02	-	02	
7	Symbolic Jackets	No	50	-	50	
8	Polyethene Sheet	Kg	100	-	100	
9	Bamboos (4” dia and 10 ft long)	No	100	-	100	
10	Water Coller	No	01	-	01	
11	Portable Umbrella	No	02	-	02	
12	Life Jackets	No	05	-	05	
13	Utensils (10 person serving)	No	01	-	01	
14	Jute/Plastic bags	No	1000	-	1000	
15	Walke Talkie Set	Sets	02	-	02	
16	Raincoats	No	10	-	10	
17	LED flood light	No	10	-	10	
18	Extension Cable (10 ft)	No	02	-	02	
19	Rechargeable Torches	No	20	-	20	
20	Kassi	No	20	-	20	
21	Axes	No	20	-	20	
22	G.I Buckets	No	05	-	05	
23	7/44 Cable	Feet	500	-	500	
24	Sutli	Kg	02	-	02	
25	Sewing Needles	No	10	-	10	
26	Emergency Medical Kit	No	01	-	01	
27	Wire crates (3x3x3) (at only those camp near river action and reserve stock exists)	No	-	-	-	

EXPECTED ROUTE OF THE FLOOD WATER IN CASE OF FAILUR-E OF STRUCTURE

(Site # 3, Nikki Deg Drain)



13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network.

Canals

U.C.C Canal.

Roads

Sheikhupura – Muridke Road.

Health Centre

Rural Health Centre Sakham.

Police Station

Shakham

Telephone Exchange

-

Army infrastructure

-

Grid Station.

-

Chapter – 13 (Site # 4)

NAME OF SITE:- DEG NULLAH NEAR S.A GARDEN AT R.D 103+000.

Emergency Contingency Plan for vulnerable site.

13.1 Plan showing route of flood water coming out of the breach supported with levels.

Plan Attached

13.2 Detail of villages abadies likely to be affected and this should also be shown on the plan.

Site No. 4

Rachna Outfall Drainage Sub Division

i) Village = Village Noon

Abadi = 15000 person

13.3 Strategy and action taken be explained in detail.

Strategy to be adopted has been explained in detail in chapter 5 of flood fighting plan.

13.3.1 Arrangements

13.3.2 Establishment of Flood Fighting Camps

The following camps are various places:-

TEMPORARY CAMP SITES.

Following are the camps sites at Deg Nullah.
1. R.D 103+000.

13.3.3 Duties of Officer / Officials and Their Camp Sites.

Camp No.	Location	Officer (Name/Designation/ Mobil No.)	Official (Name/Designation/ Mobil No.)
1.	R.D 103+000 Deg Nullah.	Muhammad Aoun Raza Sub Engineer 0309-4338622. Malik Mohammad Afzal. Sub Engineer 0300-4754925	Mohammad Younas Beldar 0345-6291554 Mohammad Abbas Beldar 0304-4003824

13.3.4 Departmental Machinery available

Required Machinery has been intimated.

13.3.5 Machinery available from Private Source.

Site No. 4 Rachna Outfall Drainage Sub Division & Muridke Drainage Sub Division.

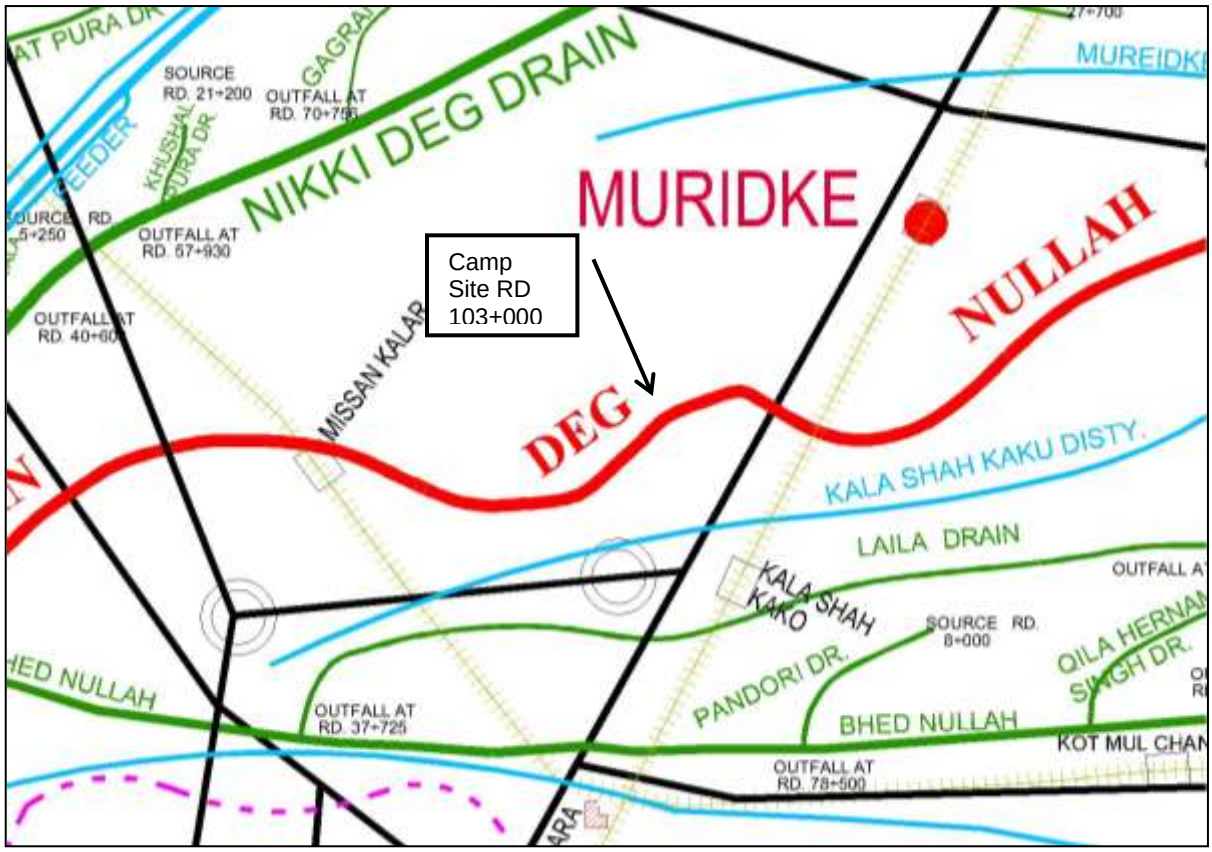
iii)	Name of owner: -	Ramzan Enterprises
	Contact No: -	0300-6896737
	Location: -	Lahore
	Excavator Machine	05 Nos
	Tractor with Front Blade	05 Nos
	Tractor with Trollies	06 Nos

13.3.6 Flood Fighting Material required.
13.3.7 Flood fighting Material available

Sr. No.	Item	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari / Tent	No	01	-	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	-	06	
3	Table	No	01	-	01	
4	Generator (2-3 KVA)	No	01	-	01	
5	Pedestal Fans	No	01	-	01	
6	Charpois	No	02	-	02	
7	Symbolic Jackets	No	50	-	50	
8	Polyethene Sheet	Kg	100	-	100	
9	Bamboos (4” dia and 10 ft long)	No	100	-	100	
10	Water Coller	No	01	-	01	
11	Portable Umbrella	No	02	-	02	
12	Life Jackets	No	05	-	05	
13	Utensils (10 person serving)	No	01	-	01	
14	Jute/Plastic bags	No	1000	-	1000	
15	Walke Talkie Set	Sets	02	-	02	
16	Raincoats	No	10	-	10	
17	LED flood light	No	10	-	10	
18	Extension Cable (10 ft)	No	02	-	02	
19	Rechargeable Torches	No	20	-	20	
20	Kassi	No	20	-	20	
21	Axes	No	20	-	20	
22	G.I Buckets	No	05	-	05	
23	7/44 Cable	Feet	500	-	500	
24	Sutli	Kg	02	-	02	
25	Sewing Needles	No	10	-	10	
26	Emergency Medical Kit	No	01	-	01	
27	Wire crates (3x3x3) (at only those camp near river action and reserve stock exists)	No	-	-	-	

EXPECTED ROUTE OF THE FLOOD WATER IN CASE OF FAILUR-E OF STRUCTURE

(Site # 4, Deg Nullah)



13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network.

Canals

Muridke Disty.

Roads

Lahore – Gujranwala G.T Road.

Health Centre

Rural Health Centre Kala Shah Kaku.

Police Station

Kala Shah Kaku.

Telephone Exchange

-

Army infrastructure

-

Grid Station.

-

Chapter – 13 (Site # 5)

NAME OF SITE: -SHEIKHUPURA DRAIN NEAR SHERAZ GARDEN AT R.D 57+000

Emergency Contingency Plan for vulnerable site.

13.1 Plan showing route of flood water coming out of the breach supported with levels.

Plan Attached

13.2 Detail of villages abadies likely to be affected and this should also be shown on the plan.

Site No. 5

Rachna Outfall Drainage Sub Division

i) Village = Sheraz Garden

Abadi = 25000 person

13.3 Strategy and action taken be explained in detail.

Strategy to be adopted has been explained in detail in chapter 5 of flood fighting plan.

13.3.1 Arrangements

13.3.2 Establishment of Flood Fighting Camps

The following camps are various places:-

TEMPORARY CAMP SITES.

Following are the camps sites at Sheikhupura Drain.
1. R.D 57+000.

13.3.3 Duties of Officer / Officials and Their Camp Sites.

Camp No.	Location	Officer (Name/Designation/ Mobil No.)	Official (Name/Designation/ Mobil No.)
1.	R.D 57+000 SKP Drain.	Qaisar Farooq Sub Engineer 0323-6003682	Mohammad Afzal Beldar 0309-7802463

13.3.4 Departmental Machinery available

Required Machinery has been intimated.

13.3.5 Machinery available from Private Source.

Site No. 5 Rachna Outfall Drainage Sub Division

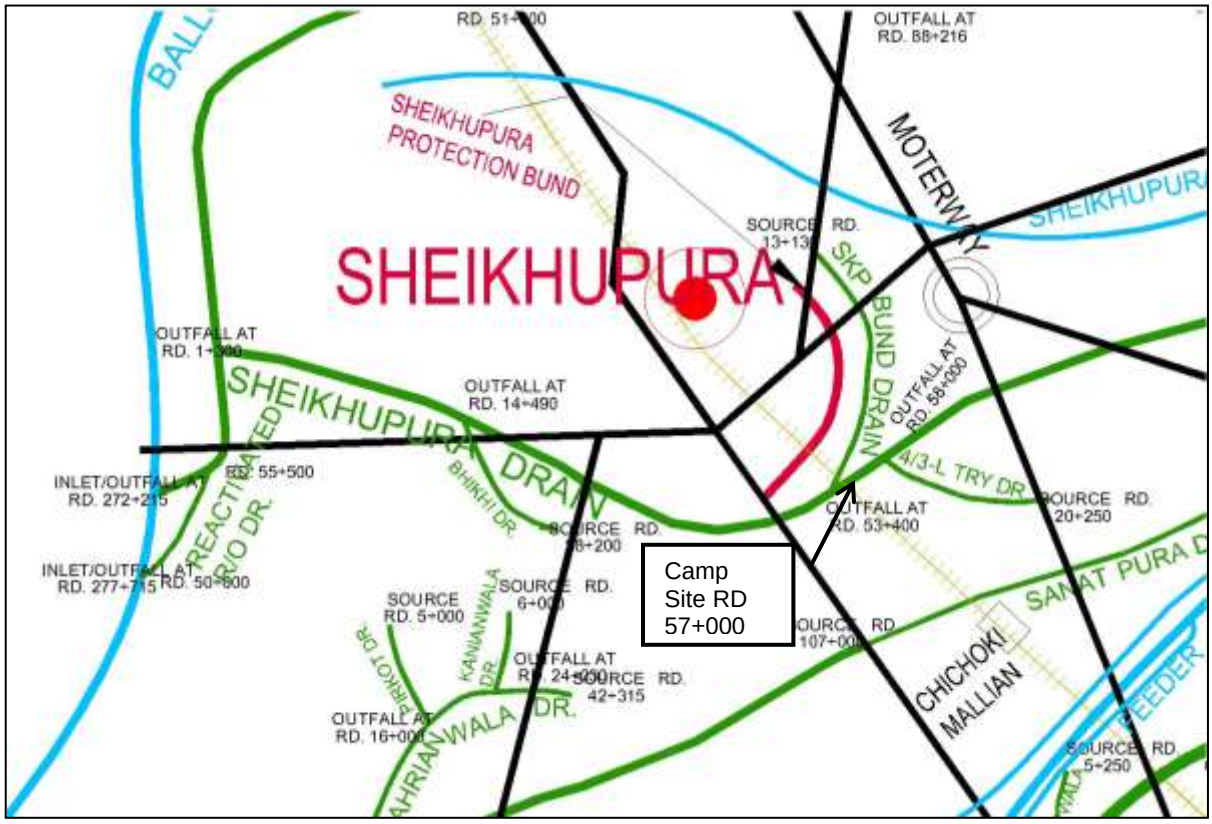
iv)	Name of owner: -	Ramzan Enterprises
	Contact No: -	0300-6896737
	Location: -	Lahore
	Excavator Machine	05 Nos
	Tractor with Front Blade	05 Nos
	Tractor with Trollies	06 Nos

13.3.6 Flood Fighting Material required.
13.3.7 Flood fighting Material available

Sr. No.	Item	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari / Tent	No	01	-	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	-	06	
3	Table	No	01	-	01	
4	Generator (2-3 KVA)	No	01	-	01	
5	Pedestal Fans	No	01	-	01	
6	Charpois	No	02	-	02	
7	Symbolic Jackets	No	50	-	50	
8	Polyethene Sheet	Kg	100	-	100	
9	Bamboos (4” dia and 10 ft long)	No	100	-	100	
10	Water Coller	No	01	-	01	
11	Portable Umbrella	No	02	-	02	
12	Life Jackets	No	05	-	05	
13	Utensils (10 person serving)	No	01	-	01	
14	Jute/Plastic bags	No	1000	-	1000	
15	Walke Talkie Set	Sets	02	-	02	
16	Raincoats	No	10	-	10	
17	LED flood light	No	10	-	10	
18	Extension Cable (10 ft)	No	02	-	02	
19	Rechargeable Torches	No	20	-	20	
20	Kassi	No	20	-	20	
21	Axes	No	20	-	20	
22	G.I Buckets	No	05	-	05	
23	7/44 Cable	Feet	500	-	500	
24	Sutli	Kg	02	-	02	
25	Sewing Needles	No	10	-	10	
26	Emergency Medical Kit	No	01	-	01	
27	Wire crates (3x3x3) (at only those camp near river action and reserve stock exists)	No	-	-	-	

EXPECTED ROUTE OF THE FLOOD WATER IN CASE OF FAILUR-E OF STRUCTURE

(Site # 5, Sheikhupura Drain)



13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network.

Canals

Aya Minor.

Roads

Lahore – Sheikhupura Road.

Health Centre

Rural Health Centre City Sheikhupura.

Police Station

Sadar Sheikhupura.

Telephone Exchange

City Sheikhupura

Army infrastructure

-

Grid Station.

City Sheikhupura.

Chapter – 13 (Site # 6)

NAME OF SITE: - Rana Town R.D 73+826

Emergency Contingency Plan for vulnerable site.

13.1 Plan showing route of flood water coming out of the breach supported with levels.

Plan Attached

13.2 Detail of villages abadies likely to be affected and this should also be shown on the plan.

Site No. 6

Muridke Drainage Sub Division

ii) Village = Rana Town

Abadi = 15000 person

13.3 Strategy and action taken be explained in detail.

Strategy to be adopted has been explained in detail in chapter 5 of flood fighting plan.

13.3.1 Arrangements

13.3.2 Establishment of Flood Fighting Camps

The following camps are various places: -

TEMPORARY CAMP SITES.

Following are the camps sites at Bhed Drain.
1. R.D 73+826.

13.3.3 Duties of Officer / Officials and Their Camp Sites.

Camp No.	Location	Officer (Name/Designation/ Mobil No.)	Official (Name/Designation/ Mobil No.)
1.	R.D 73+826 Bhed Drain.	Malik Mohammad Afzal Sub Engineer 0344-4754925	Mohammad Abbas Beldar 0304-4003824

13.3.4 Departmental Machinery available

Required Machinery has been intimated.

13.3.5 Machinery available from Private Source.

Site No. 6 Muridke Drainage Sub Division

i)	Name of owner: -	Ramzan Enterprises
	Contact No: -	0300-6896737
	Location: -	Lahore
	Excavator Machine	05 Nos
	Tractor with Front Blade	05 Nos
	Tractor with Trollies	06 Nos

13.3.6 Flood Fighting Material required.
13.3.7 Flood fighting Material available.

Sr. No.	Item	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari / Tent	No	01	-	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	-	06	
3	Table	No	01	-	01	
4	Generator (2-3 KVA)	No	01	-	01	
5	Pedestal Fans	No	01	-	01	
6	Charpois	No	02	-	02	
7	Symbolic Jackets	No	50	-	50	
8	Polyethene Sheet	Kg	100	-	100	
9	Bamboos (4” dia and 10 ft long)	No	100	-	100	
10	Water Coller	No	01	-	01	
11	Portable Umbrella	No	02	-	02	
12	Life Jackets	No	05	-	05	
13	Utensils (10 person serving)	No	01	-	01	
14	Jute/Plastic bags	No	1000	-	1000	
15	Walke Talkie Set	Sets	02	-	02	
16	Raincoats	No	10	-	10	
17	LED flood light	No	10	-	10	
18	Extension Cable (10 ft)	No	02	-	02	
19	Rechargeable Torches	No	20	-	20	
20	Kassi	No	20	-	20	
21	Axes	No	20	-	20	
22	G.I Buckets	No	05	-	05	
23	7/44 Cable	Feet	500	-	500	
24	Sutli	Kg	02	-	02	
25	Sewing Needles	No	10	-	10	
26	Emergency Medical Kit	No	01	-	01	
27	Wire crates (3x3x3) (at only those camp near river action and reserve stock exists)	No	-	-	-	

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EXPECTED ROUTE OF THE FLOOD WATER IN CASE OF FAILUR-E OF STRUCTURE

(Site # 6, Bhed Drain)



13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network.

Canals

Darghai Minor.

Roads

Lahore – Gujranwala (G.T) Road.

Health Centre

Rural Health Centre City Ferozwala.

Police Station

Ferozwala.

Telephone Exchange

Ferozwala.

Army infrastructure

-

Grid Station.

Ferozwala.

Chapter – 14

ACTION PLAN

14.1 RE-SHUFFLING/RECOUPING PLAN OF RESERVE STONE DEPARTMENTALLY.

No reserve stone sanctioned in respect of Rachna Drainage Division Sheikhupura.

14.2 DETAIL OF INLET/OUTLET CROSSING ALONG WITH CLOSING METHODOLOGY

There is no inlet / outlet crossing the flood embankments.

14.3 DEPLOYMENT OF MACHINERY (NORMAL TO LOW FLOOD)

Attached at Page No.62.

14.4 DEPLOYMENT OF MACHINERY (MEDIUM TO HIGH FLOOD)

Attached at Page No.63.

14.5 DEPLOYMENT OF MACHINERY (VERY HIGH TO EXCEPTIONALLY HIGH FLOOD)

Attached at Page No.64.

14.6 POLICE DEPLOYMENT PLAN

Sr. No.	Vulnerable sites used for illegal cuts during floods	Concerned Canal Division	Concerned Police Station and District	Police Personnel to be deployed		Remarks (If any)
				Inspection / SI/ASI	Constables	
1.	6 No Vulnerable sites falls in RDD SKP	-	-	-	-	-

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

THERE IS NO REQUIREMENT OF 500KG OR 1000 KG BAGS.

14.8 DETAIL OF POLYTHENE SHEETS OF BLACK COLOR TO PROTECT UPSTREAM SLOP AGAINST WAVE ACTION AND TO CONTROL SEEPAGE THROUGH EMBANKMENTS

NOT REQUIRED AS THERE IS NO RIVER EMBANKMENT IN THE DIVSION.

14.9 ANY OTHER DETAIL AS PER SOPS APPROVED BY THE ADMINISTRATIVE DEPARTMENT.

Follows

DEPLOYMENT OF MACHINERY
(NORMAL TO LOW FLOOD)

Sr. No.	Name of Structure	Length (Mile)	Excavator	Trolleys	Dumpers	Tractor with front blade (1 per 15-mile reach)
1	**2**	**3**	**4**	**5**	**6**	**7**
1	Mangoki Drain	3.00	S.E shall allow deputation of one (1) excavator & four (4) Trolleys during low flood at camps/vulnerable points & LMB / RMB.		-	1
2	DDC Bund	17.86			-	1
3	Nikki Deg Drain	29.92			-	2
4	Main Deg Nullah	36.78			-	2
5	Sheikhupura Drain	1.60			-	0
6	Bhed Drain	52.20			-	3
Total:-		**160.65**	**0**	**0**	**-**	**9**

DEPLOYMENT OF MACHINERY
(MEDIUM TO HIGH FLOOD)

Sr. No.	Name of Structure	Length (Mile)	Excavator	Trolleys	Dumpers	Tractor with front blade
			1 per 7 mile reach	4 per 7 mile reach	2 per 7 mile reach	1 per 7 mile reach
1	**2**	**3**	**4**	**5**	**6**	**7**
1	Mangoki Drain	3.00	0	2	0	0
2	DDC Bund	17.86	3	11	5	3
3	Nikki Deg Drain	29.92	4	16	8	4
4	Main Deg Nullah	36.78	5	20	10	5
5	Sheikhupura Drain	1.60	0	1	0	0
6	Bhed Drain	52.20	8	32	15	8
Total:-		**160.65**	**20**	**82**	**38**	**20**

DEPLOYMENT OF MACHINERY
(VERY HIGH TO EXCEPTIONALLY HIGH FLOOD)

Sr. No.	Name of Structure	Length (Mile)	Excavator		Trolleys	Dumpers	Tractor with front blade	
			Very High Flood	Exp. High Flood	4 per 5 mile reach	2 per 5 mile reach	Very High Flood	Exp. High Flood
			1 per 5 mile reach	2 per 5 mile reach			1 per 5 mile reach	2 per 5 mile reach
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
1	Mangoki Drain	3.00	0	1	3	1	0	1
2	DDC Bund	17.86	3	6	13	7	4	7
3	Nikki Deg Drain	29.92	6	12	24	12	6	12
4	Main Deg Nullah	36.78	7	14	28	14	7	14
5	Sheikhupura Drain	1.60	0	1	1	1	0	1
6	Bhed Drain	52.20	10	20	40	20	10	20
Total:-		**160.65**	**26**	**54**	**109**	**55**	**27**	**55**

CHAPTER-15

15 BACKUP DIVISIONS

The Sheikhupura Division UCC Sheikhupura is allied canal Division and the Jurisdiction of both Divisions i.e Rachna Drainage Division Sheikhupura and Sheikhupura Division UCC is parallel District Gujranwala as well as Sheikhupura.

Superintending Engineer,
Lahore Drainage Circle,
Lahore.

Executive Engineer,
Rachna Drainage Division,
Sheikhupura.

Chief Engineer,
Irrigation Lahore Zone,
Lahore.

Subject: - **REPORT OF COMMITTEE FOR FINALIZATION OF MACHINERY & HUMAN RESOURCE REQUIREMENTS FOR FLOOD FIGHTING PLAN (FFP)**

A committee was constituted by the Administrative Department vide No.SO(Floods)VII-22/2017 dated 26.12.2025 to standardize emergency response protocols and optimize the deployment of machinery and human resources across various irrigation infrastructures (river-wise) for the Flood Fighting Plan (FFP). The composition of the committee was as follow:

Chief Engineer, D&F Zone, Lahore.	**Convener**
Superintending Engineer, Project Circle DG Khan.	**Member / Rep. of DG Khan Zone**
Superintending Engineer, Bahawalpur Canal Circle.	**Member / Rep. of Bahawalpur Zone**
Superintending Engineer, Mailsi Canal Circle, Multan.	**Member / Rep. of Multan Zone**
Superintending Engineer, Sukhrawa Canal Circle, Sahiwal.	**Member / Rep. of Sahiwal Zone**
Superintending Engineer, LCC(West) Canal Circle, Faisalabad.	**Member / Rep. of Faisalabad Zone**
Superintending Engineer, Mandi Bahauddin Canal Circle	**Member / Rep. of Sargodha Zone**
Superintending Engineer, Link Circle, Lahore.	**Member / Rep. of Lahore Zone**

2. The TORs of the committee are as follows:

i. The committee shall set the benchmark point relative to which the machinery and human resources will be deployed in case of flood for each river.

ii. The committee shall determine the specific number of human resources required per mile to ensure 24/7 monitoring for embankments / structures against different flood levels (low, medium, high, V.High & Ex-High) and immediate breach response.

iii. The committee shall define minimum number of work charge / manpower for watch and ward that must be hired via outsourcing for flood season.

iv. The committee shall determine the machinery requirement (excavators, dumpers, tractors with trolleys) for different irrigation infrastructures (embankments / structures), including standby locations against different flood levels (low, medium, high, V.High & Ex-High).

SE BWP

SE SCC

SE MCC

Accordingly, a meeting of the committee was convened online on 30.12.2025. The meeting primarily focused on the criteria for deployment of human resources and machinery for effective flood fighting operations. During the discussion, it was emphasized on the importance of proper assessment and coordination at all levels. During the first meeting, it was decided that all SEs shall discuss the requirement of manpower, labor, equipment, and machinery with Executive Engineers of their zones of different rivers to assess the actual requirements for flood fighting plans. It was decided that the consolidated requirements, after due consultation, shall be submitted for further deliberations.

The second meeting was held on 12.01.2026 to deliberate on requirements gathered by the Superintending Engineers for developing a singlecriteria for the flood fighting plan. After detailed deliberations, the following criteria for establishment of camps, deployment of machinery and human resources, and material for each camp across various irrigation infrastructures (river-wise) for the Flood Fighting Plan (FFP) were agreed upon:

1. General Manpower Hiring (Maintenance Phase)

Total manpower requirement for watching and maintenance of flood embankment during the flood season from 15th June to 15th October (the entire flood season) as per the following criteria:

1.1 Watching Establishment Criteria

Normal Flood Season -	1 person/2 mile	(1 Shift)
Low Flood –	1 person/mile	(1 Shift)
Medium /High flood	2 person/mile/shift	(2 Shift)
Very High/Exceptionally High	5 person/mile/shift	(3 Shift)

- Beldar should be provided with hand tools (1 Kassie, 1 Axe and 1 Rechargeable Torch for night shift in case of flood above low flood limit)
- The activities of staff during normal flood season should be included but not limited to:
  - Removing Jungle and bushes from slopes and toe of embankment
  - Filling of rain cuts/ Gharas
  - Dressing of slopes
  - Filling porcupine and rat holes

- Keeping the track motorable

Mate: 1 No. for every gang of 12 Beldars at all flood ranges.

1.2 Establishment of Camps criteria

Normal Flood Season:	15 miles/ Vulnerable points
Low Flood:	15 miles
Medium Flood/High flood	7 miles
Very High/Exceptionally High	5 miles

Note: The Superintending Engineer (SE) will notify all vulnerable points as per recommendations of Executive Engineer (XEN) and if the vulnerable site falls within 15 miles of embankment, then camp will be established at vulnerable site.

2. Flood Fighting Material:

Flood Fighting Material should be purchased on the basis of the worst-case scenario, i.e. for exceptionally high flood. The minimum requirement is as follows:

2.1 Minimum requirement of Flood Fighting Materials for Permanent Camp (15 miles)

SR. #	ITEM	UNIT	Total Required Qty	Available Qty	Balance Qty	Remarks
1.	Shouldari / Tent	No	01			
2.	Chairs	No	06			
3.	Table	No	01			
4.	Generator (2-3 KVA)	No	01			
5.	Pedestal Fans	No	01			
6.	Charpois	No	02			
7.	Symbolic Jackets	No	50			
8.	Polyethene Sheet	Kg	100			
9.	Bamboos (4" dia and 10 ft long)	No	100			
10.	Water Coller	No	01			
11.	Portable umbrella	No	02			
12.	Life Jackets	No	05			

SR. #	ITEM	UNIT	Total Required Qty	Available Qty	Balance Qty	Remarks
13.	Utensils (10 person serving)	No	01			
14.	Jute/Plastic bags	No	1000			
15.	Walke Talkie Set	Sets	02			
16.	Raincoats	No	10			
17.	LED flood light	No	10			
18.	Extension Cable (10 ft)	No	02			
19.	Rechargeable torches	No	20			
20.	Kassi	No	20			
21.	Axes	No	20			
22.	G.I Buckets	No	05			
23.	7/44 cable	Feet	500			
24.	Sutli	Kg	02			
25.	Sewing Needles	No	10			
26.	Emergency Medical Kit	No	1			
27.	Wire crates (3x3x3) (at only those camp near river action and reserve stock exists)	No	100			

2.2 Minimum requirement of Flood Fighting Materials for Temporary Camp: (7 or 5 miles during medium to exceptionally high flood to be outsourced)

SR. #	ITEM	UNIT	Total Required Qty	SR. #	ITEM	UNIT	Total Required Qty
1.	Shouldari / Tent	No	01	2.	Walke Talkie Set	Sets	01
3.	Chairs	No	06	4.	Raincoats	No	10
5.	Table	No	01	6.	LED flood light	No	10

7.	Generator (2-3KVA)	No	01	8.	Extension Cable (10 ft)	No	02
9.	Pedestal Fans	No	01	10.	Rechargeable torches	No	20
11.	Charpois	No	02	12.	Kassi	No	20
13.	Symbolic Jackets	No	50	14.	Axes	No	20
15.	Water Coller	No	01	16.	G.I Buckets	No	05
17.	Portable umbrella	No	02	18.	7/44 cable	Feet	500
19.	Utensils (10 person serving)	No	01	20.	Sutli	Kg	02
21.	Jute/Plastic bags	No	500	22.	Sewing Needles	No	10

Machinery, Camps and Watching Establishment Requirements by Flood Level:

Flood Level	Flood Camp	Excavators	Trolleys	Dumpers	Tractor with Front blade	Beldars (per mile)	Mate
Normal	1 per 15 mile reach	As per recommendations (ii)		-	1 per 15 mile reach	1 person/2 mile (1 Shift)	1 mate per 12 beldars
Low						1 person/mile (1 Shift)	
Medium	1 per 7 mile reach	1 per 7 mile reach	4 per 7 mile reach	2 per 7 mile reach	1 per 7 mile reach	2 person/mile/shift (2 Shift)	
High							
Very High	1 per 5 mile reach	1 per 5 mile reach	4 per 5 mile reach	2 per 5 mile reach	1 per 5 mile reach	5 person/mile/shift (3 Shift)	
Exp. High		2 per 5 mile reach			2 per 5 mile reach		

***Chowkidar:** 1 per flood camp (24/7) for all flood levels.

Minimum Requirement of Machinery at Breaching Section

At each breaching section there should be arrangement of two (2) Excavators, one (1) Dozer and three (3) Dumpers at Exceptionally high flood.

Recommendations for Operation During Flood

i. The Superintending Engineer (SE) will notify all vulnerable points on the recommendations of Executive Engineer (XEN) and if the vulnerable site falls within 15 miles of embankment, then camp will be established at vulnerable site.

ii. Superintending Engineer shall allow deputation of one (1) excavator and four (4) Trolleys during low flood at Camps/ vulnerable points and LMB/RMB.

iii. The Superintending Engineer (SE) shall approve one additional shift during low to high flood based on necessity of site but he shall clearly mention the reach where additional shift is allowed.

iv. For emergent situation when very high flood levels are attained at lower flood discharges, additional camps may also be established with the approval of Superintending Engineer.

v. The concerned division shall procure flood fighting material as per requirement of seasonal flood fighting camps.

vi. Jackets with official emblem of the PID should be purchased by the concerned Division, to be used during the worst-case scenario, i.e., for exceptionally high flood.

vii. All others camps and supplies along with establishment i.e. Beldars and mates shall be outsourced before the flood season for operational efficiency during the flood fighting activities.

viii. The above mentioned yard stick of human resource is inclusive of 100% of regular flood establishment of the division at normal and low flood and for medium and above flood situation 50% of total regular establishment of the division and backup division in Flood Fighting Plan.

ix. The **Trigger Point** upstream of a Canal Division for commencing preparations shall be mentioned in the flood fighting plan and it shall be such point upstream with lag time of 3 days / 72 hours. The division shall initiate preparation corresponding to discharge magnitude expected to receive at their jurisdiction with respect to discharge at trigger point with 2025 flood data.

SE MBN

x. Superintending Engineers shall approve additional resources above the approved FFP on the recommendations of Executive Engineer based on site necessity with copy to TPM and respective Chief Engineer but must mentioned the reach and justify the reason for additional resources in approval.

xi. Executive Engineers (XEN) shall decide the location and relocation of flood camps.

xii. The machinery mentioned above should be hired to remain standby for 24/7 to fight any extreme situation. The working of deployed machinery during normal situation shall be with prior approval of Superintending Engineer.

xiii. Communication means must be arranged through the Government. It is recommended to allocate a unique frequency for irrigation department.

xiv. In the event that water levels reach the 'High Flood' threshold even if the recorded discharge remains below established benchmarks, all field preparations and personnel deployments must immediately escalate to Critical Level protocols.

(Zeeshan Ali) 19/1/26
Member/ SE, Project Circle
DG Khan

(Abdul Qayyum Qaqume) 19/01
Member / SE, Mailsi Canal
Circle, Multan

(Mohib Ullah Ali) 19/01/2026
Member / SE, Sukhrawa
Canal Circle, Sahiwal

(Imtiaz Hussain) 19-01-26
Member / SE, Bahawalpur
Canal Circle

(Semmar Iqbal) 19/01/26.
Member / SE, LCC(West)
Canal Circle, Faisalabad

(Hafiz Ijaz Ahmed) 19/1/26
Member / SE, Mandi
Bahauddin Canal Circle

(Mudassar Rehan) 19-01-26
Member / SE Link Circle,
Lahore

(Khurram Amin)
Convener / Chief Engineer,
Drainage & Flood Zone, Lahore.

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