GOVERNMENT OF THE PUNJAB

IRRIGATION DEPARTMENT

SARGODHA IRRIGATION ZONE SARGODHA

FLOOD FIGHTING PLAN 2026.

EXECUTIVE ENGINEER
DRAINAGE DIVISION
MANDI BAHAUDDIN.

SARGODHA DRAINAGE CIRCLE SARGODHA



FLOOD FIGHTING PLAN 2026
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FLOOD FIGHTING PLAN-2026

PART-A

CHAPTER-1

SALIENT FEATURES OF DRAINGE DIVISION MANDI BAHAUDDIN.

1.1 LOCATION

The jurisdiction of the Division is enclosed by Lower Jhelum Canal, River Jhelum in North, Upper Jhelum Canal & Pubby hills in East, Northern / Southern branches of L.J.C in west & River Chenab in south.

During the Flood season, the Drainage System is affected by heavy rains in pubby hills range and the catchments area of other main drains. The runoff due to these heavy rains results in spillover of the Drainage System and adjoining abadies are also effected High flood in River Jhelum & River Chenab also contributes to this by back flow and spill over in outfall reaches. The objective to formulate this plan is to reduce the effects of flooding up to the extent possible with in available resources.

The Division was created during 1976 covering five Districts namely Gujrat, Mandi Bahauddin, Jhelum, Sargodha & Mirpur (Azad Kashmir). This Division consists of Four Sub Division with the Head Quarter at Mandi Bahauddin detail of which is given below:

Sr. No.	Name of Drainage Sub Divisions	District	Tehsil	Drains Length (In Miles)
1	Bahauddin Drainage Sub Division	Mandi Bahauddin/ Sargodha	Mandi Bahauddin, Malakwal,	255.97
2	Phalia Drainage Sub Division	Mandi Bahauddin/Gujrat	Phalia, Gujrat	176.61
3	Rasul Drainage Sub Division	Mandi Bahauddin, Gujrat, Jhelum & Mirpur	Mandi Bahauddin, Kharian, Sarai Alamgir, Mirpur	98.16
4	Tube Well (TOD) Phalia Sub Division	Mandi Bahauddin/Gujrat	MBDIN, Phalia, Gujrat	--
			Total=	**530.74**

1.2 GENERAL DESCRIPTION

The Drainage Net work consisting of Main Drains, Branch Drains and Tributary Drains having length of 530.74 Miles exist in the Division. There are 11 No's major Drainage Systems existing in the Division which are capable to cater for a total discharge of about 7609 Cs: resulting from seepage and surface run-off from their catchments areas, out failing into River Chenab and River Jhelum. The details are as follows: -

CHENAB BASIN.

Sr. No.	Drainage System.	Discharge.
1	Miana Gondal Drainage System.	560 Cs
2	Bhekho Drainage System	830 Cs
3	Bhudhi Nallah Drainage System including P.R.K. Drainage System.	4200 Cs
4	Halki Nallah Drainage System.	100 Cs
5	D-1, D-2 & D-3 Drainage System	70 Cs
6	Dhunni Drain, Majra , Chakrian and Mojianwal Drain (independent Drainage System)	307 Cs
	Total=	**6067 Cs**

JHELUM BASIN.

Sr.No.	Drainage System.	Discharge.
1	Haria Drainage System	400 Cs
2	Bahauddin Kot Baloach Drainage System.	350 Cs
3	Malakwal Drainage System (UJC) parallel Drainage System U/S and D/S Khokhra Heaed Works.	42 Cs
4	Parallel Drains along UJC	N/A
	Grand Total	**792 Cs**

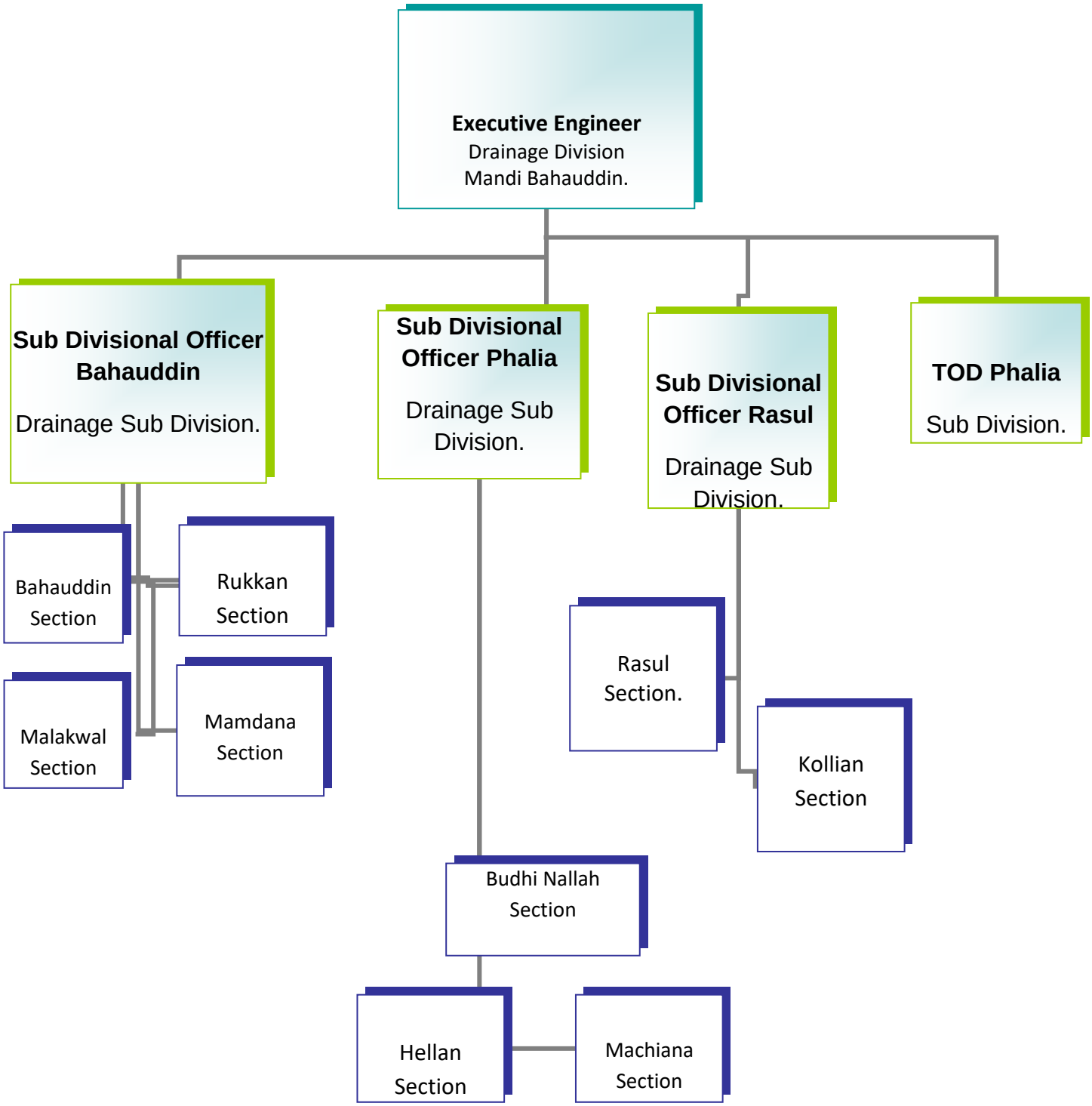
Presently there are 10 Nos. Drainage System in Drainage Division Mandi Bahauddin:-

Sr.No.	Name of System.	Length (In Miles)	Capacity (In Cs).
1	Bhudhi Nallah Draiange System including P.R.K. Drainage System.	264.73	4200
2	Bhekho Drainage System	98.48	830
3	Miana Gondal Drainage System	40.56	560
4	Malakwal Drainage System	6.40	42
5	Bahauddin Kot Baloach Drainage System.	22.11	350
6	Haria Drainage System.	22.92	400
7	Halki Nallah Drainage System.	9.86	100
8	D-1, D-2 & D-3 Drainage System	5.28	70
09	Independent Drains.	27.91	307
10	Parallel Drains along UJC	60.00	NA

1.3 ADMINISTRATIVE SETUP.

Sr.No.	Name of Drainage Sub Divisions	District	Tehsil	Drains Length (In Miles)
1	Bahauddin Drainage Sub Division	Mandi Bahauddin/ Sargodha	Mandi Bahauddin, Malakwal,	255.97
2	Phalia Drainage Sub Division	Mandi Bahauddin/Gujrat	Phalia, Gujrat	176.61
3	Rasul Drainage Sub Division	Mandi Bahauddin, Gujrat, Jhelum & Mirpur	Mandi Bahauddin, Kharian, Sarai Alamgir, Mirpur	98.16
4	TOD Phalia Sub Division	Mandi Bahauddin/Gujrat	MBDIN Phalia, Gujrat	--
			Total=	**530.74**

ORGANIZATION CHART
DRAINAGE DIVISION MANDI BAHAUDDIN.



CHAPTER-2

FLOOD PROTECTION AND RIVER TRAINING WORKS

2.1 DESIGN PARAMETERS OF RIVER TRAINING WORKS

The Mandi Bahauddin Drainage Division Mandi Bahauddin is affected by River Jehlum & Chenab. Malkwal Flood Bund along Malkwal Part-I drain and outfall river Jhelum to protect the Malkwal City Tehsil Headquarter and its abadies.

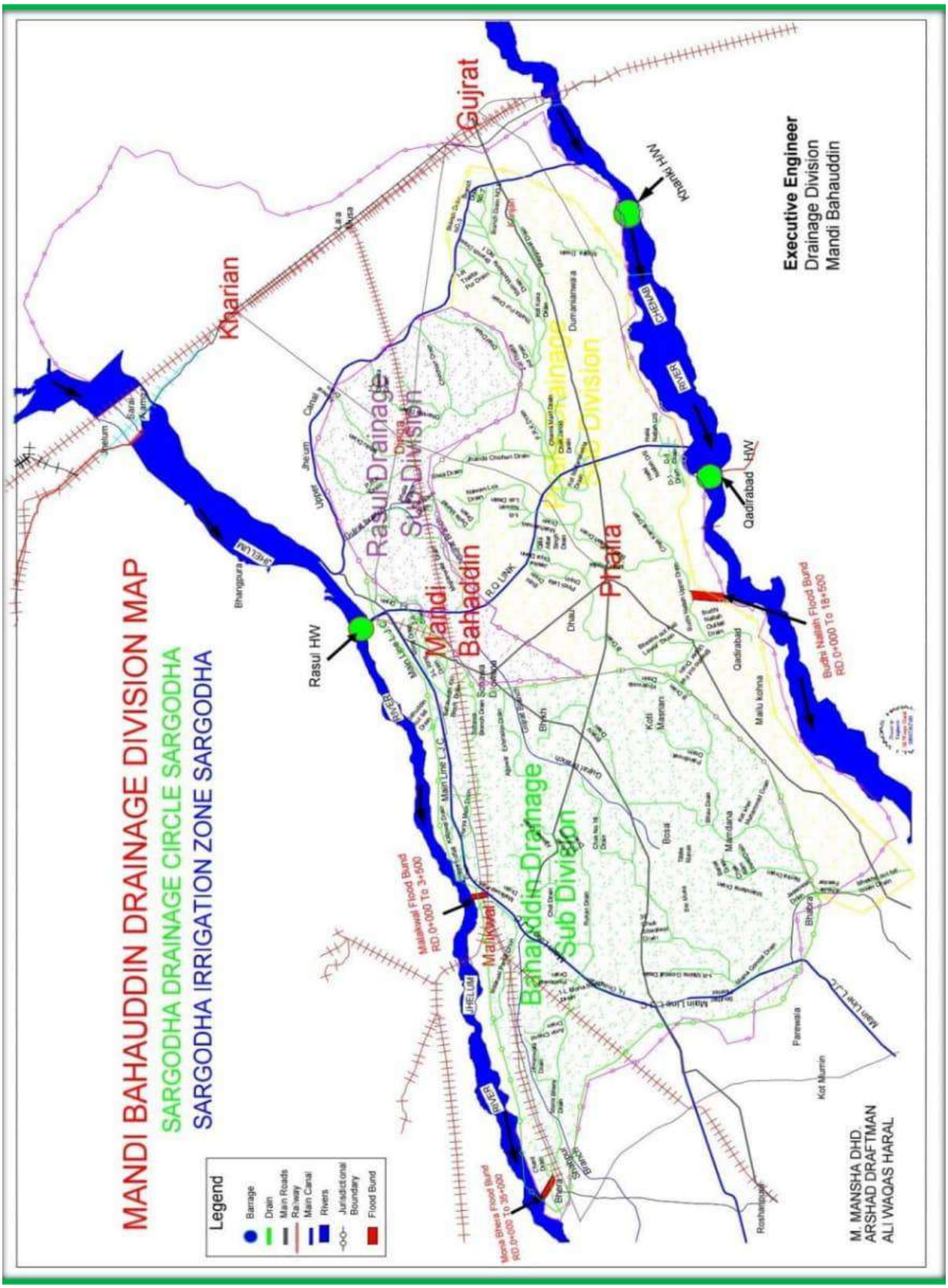
Budhi Nullah Flood Bund along Budhi Nallah outfall Drain is to protect the Abbadies of Qadirabad Town, Villages Thathi Shah Muhammad Mailu Kohna, Mailu nou , Matto, Farakhpur Nowshera Bhattian, Korekaram Shah, Ahlan . The Bund will provide long-term relief to the affected abadies, protect agricultural land and graveyards, and ensure the safety and livelihood of local residents of Qadirabad Town and its nearest Villages and Dera Jaat etc.

Apart from Maintenance of Drainage System this Division is responsible for maintenance of 02 flood bunds with detail as under:

Sr. No	Name of Bund	Length of Bund	Top width	Side slopes	Free Board from H.F.L	Remarks
1	Malakwal Flood Bund.	3500 ft	12 ft	2:1 on Either side	5 ft	–
2	Flood Bund along Budhi Nallah Drain RD.0-18500.	18500 ft	25 ft	2:1 on Either side	5 ft	–

2.2 LOCATION MAP

Map has been attached for Drainage Division Mandi Bahauddin.



CHAPTER-3

BREIF HISTORY OF PAST FLOOD EVENTS

The brief description of each major system affected by the flood is under: -

a. P.R.K DRAINAGE SYSTEM.

The P.R.K Drainage system comprises of 16 no. Tributary Drains along with P.R.K Main drain. The P.R.K main drain starts from pubby hills and has discharge at outfall as 2750 Cs and Bed width 100 feet. In addition to its out fall structure, there is an intake structure on R.Q.Link with intake capacity of 16000 Cs to meet with flood situations. During almost every flood season, P.R.K has to accommodate 4 to 5 times more than its designed .The Sub Divisional Officer Rasul Drainage Sub Division manages Gangs to fight emergencies like removal of obstructions under neath the bridges causing hindrance to flow. Exceptionally high flood almost each year spill over which is beyond control. The spilled over water inundates the adjoining abadies of P.R.K Drainage System. Also heavy discharge at Syphon of R.Q.Link results in the stagnation of water due to low capacity of system. The heading up here inundates lot of area in the upper reach.

b. MALAKWAL DRAIN.

Left Bank of Malakwal drain in reach RD. 0-3500 is maintained as flood Embankment to save Malakwal Town. The length of flood embankment is 3500 feet having top width 12 feet with side slop 2:1 on either sides. This flood Bund experienced exceptionally high floods especially during flood 1992, resulting in breaches at various sections and standing of flood water in Malakwal Town to a depth of 7-8 feet.

c) BUDHI NALLAH DRAINAGE SYSTEM.

Budhi Nallah Drainage system was remodeled by WAPDA during 1977. It covers a lot of catchment area right from U.J.C up to Qadirabad Town, being outfall for P.R.K Drainage System at RD. 99000 of R.Q.Link through a Syphon. As independent system it consist of 19 No. drains in addition to main drain with discharge capacity of 4200 Cs and Bed Width of 130, at outfall. This drain consist of heavy structures and protects huge area against flood during Monsoon. The back water flow of River Chenab causes damages in various reaches in the shape of bank erosion especially at RD. 0-65000 of Budhi Nallah and RD. 0-18500 of Budhi Nallah outfall drain.

CHAPTER-4

DESIGN DATA HISTORIC PEAK FLOOD DATA AND PREVIOUS 5 YEARS FLOOD DATA OF HEAD WORKS/ BARRAGES AND OR OTHER CONTROL POINTS.

4.1 FLOOD LIMITS FIXED BY FLOOD COMMISSION.

FLOOD LIMITS	RIVER JHELUM	RIVER CHENAB
	Discharge Ranges (Cusecs)	
Low Flood	75,000-1,10,000	1,10,000-1,50,000
Medium Flood	1,10,000-1,50,000	1,50,000-2,25,000
High Flood	1,50,000-2,25,000	2,25,000-3,00,000
Very High Flood	2,25,000-3,00,000	4,00,000-6,00,000
Exceptionally High Flood	Above 3,00,000	Above 6,00,000

4.2 TIME LAGS OF FLOODS

The flood from Mangla to Railway Bridge Jhelum reaches in seven hours after traversing a distance of 20 miles whereas from Railway Bridge to Rasul Barrage is also seven hours.

4.3 HIGHEST FLOODS (River Jhelum at Rasul)

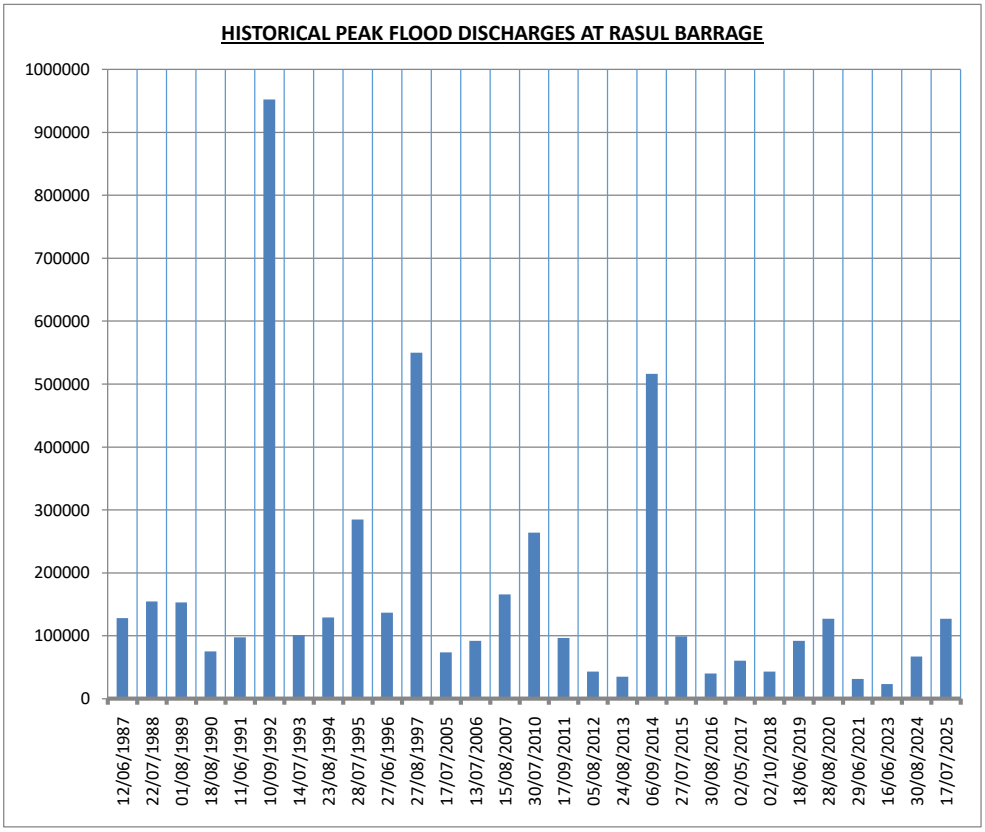
Date	Discharges (Cs)	Pond Level (ft.)
02-07-1959	8,70,000	719.00
11-07-1960	8,60,000	721.80
10-09-1992	9,52,170	721.70
27-08-1997	5,49,598	716.00
06-09-2014	5,16,387	720.40

4.4 PEAK DISCHARGES

Date	Discharges (Cs)	Pond Level (ft.)
19-08-1980	73,583	719.00
26-07-1981	1,04,424	716.00
06-08-1983	97,251	719.00
15-08-1984	95,905	719.00

08-08-1986	1,13,528	717.00
12-06-1987	1,27,950	717.00
22-07-1988	1,54,389	718.00
01-08-1989	1,53,174	718.00
18-08-1990	75,259	719.00
11-06-1991	97,704	719.00
10-09-1992	9,52,170	721.70
14-07-1993	1,00,998	718.00
23-08-1995	1,29,392	717.00
28-7-1994	2,85,071	715.00
27-06-1996	1,36,712	716.00
27-08-1997	5,49,598	716.00
18-05-1998	73,597	719.00
17-07-2005	92,246	719.00
13-07-2006	1,65,947	720.85
15-08-2007	23,608	719.00
03-05-2008	27,515	719.00
16-08-2009	69,952	719.10
30-07-2010	2,63,795	718.00
17-09-2011	96,864	718.00
05-08-2012	43,135	719.00
24-08-2013	35,325	719.00
06-09-2014	5,16,387	720.40
27-07-2015	99,103	718.20
30-08-2016	40,425	718.10
02-05-2017	60,723	719.20
02-10-2018	43,135	719.20
18.06.2019	91,904	719.20
26.03.2020	91,904	720.40
02.06.2021	31,420	716.00
16.06.2022	23610	719.10
08-09-2023	35325	719.00
30-08-2024	66960	719.00
17.07.2025	127162	719.10

HISTORICAL PEAK FLOOD DISCHARGES AT RASUL BARRAGE



Discharge in Cusecs

CHAPTER-5

FLOOD FIGHTING STRATEGY

a. P.R.K Drain.

Upper reach of this drain falls in the control of two Sub Engineer i.e. Rasul and Kolian section of Rasul Drainage Sub Division, while lower reach in Hellan section of Phalia Drainage Sub Division.

The structure of P.R.K in Kolian Drainage Section at RD.31 (U/S) particularly suffered damage, due to rain/flood during the year 2011-12 which is rehabested. This reach will be watched particularly during high flood. The existing establishment will watch the structure of P.R.K Drain Extra requirement for men and material is explained in the next chapter.

b. MALAKWAL DRAIN.

Flood camps will be set up at RD. 3500 Malakwal Drain during coming flood season to control any emergent situation. Malakwal drain will be looked after by Sub Engineer Malakwal section, whose Headquarter is at Malakwal and he will also supervise embankment along drain with the help of his sectional establishment and work charge establishment (in case of emergency) in coming flood season.

c. BUDHI NALLAH DRAIN.

In view of last experience, it is essential that watching be carried out in case there is spill of River Chenab. Flood camp will be set up at RD-0 of Budhi Nallah and the Sub Engineer Budhi Nallah Section will supervise the operation during high flood, with the help of regular / work charge establishment.

d. BHEKHO OUTFALL LOWER DRAIN.

As experienced during the previous years, the bank of Bhekho outfall lower drain in reach RD. 0-10000 remain under the direct hit of spill of the River Chenab. This will also be required to be kept under constant watch and Sub Engineer Mamdana will take care of the activities pertaining to flood in case of emergency (Very High Flood). This estimate of this reach under pre parathion which w be maintained before upcoming flood season

CHAPTER-6

FLOOD DAMAGES RESTORATION WORKS

Flood flows passed during different years in both the rivers have affected the following systems. These systems were repeatedly damaged / over toped since the year 1976. The damages occurred to system were restored under M&R grant and also flood damages restoration project. No major flood restoration work has been executed during last year at any Flood Bund in Drainage Division Mandi Bahauddin.

i) P.R.K Drainage System.
ii) Bhekho Drainage System.

The details regarding damages & flood restoration project since 1992 summarized as under: -

FLOOD OF 1992.

i) MALAKWAL DRAIN / FLOOD BUND.

This Bund was affected from RD.0-3500 due to exceptionally high flood 1992, which was repaired under Flood Restoration Project.

ii) BAHAUDDIN KOT BALOACH DRAINAGE SYSTEM.

Bahauddin Outfall Drain RD. 0-8300 and Kot Baloach Drain RD. 0-60000 were seriously damaged and were repaired under flood restoration damages project 1992.

iii) **BHEIKHO DRAINAGE SYSTEM**

Extra ordinary flood from River Chenab during 1992 damaged the banks of Bhekho outfall Drain RD. 0-25. Beside this, stone pitching at outfall part was also damaged, which was under taken in flood restoration works.

iv) BUDHI NALLAH DRAIN.

The bank of Budhi Nallah outfall drain RD. 0-18500 was damaged. The reach RD. 0-10 was also affected, which was restored under flood restoration 1992.

v) P.R.K DRAIN.

The extra ordinary rains in the catchments and the back water of R.Q.Link damaged the bank from RD. 110-111 & also V.R. Bridge RD 63-72 along with some inlets. These works were taken under the flood restoration 1992.

FLOOD 1995.

i) BHIKHO DRAINAGE SYSTEM.

Due to supper flood in River Chenab the Bank of Bhekho outfall lower drain RD. 0-10 was damaged besides the sloping spur. Mole head & pitching were also damaged. Some huge cuts in flood embankment were also occurred at the outfall drain, which were restored under Para 2.89 P.W.D code accordingly.

FLOOD SEASONS 2018.

No flood damages restoration work was carried out during the year 2018. Only 43135Cs water has been passed Down Stream of Rasul Barrage during Flood season. However, normal repair works such as rain cuts and gharas have been carried out partially.

FLOOD SEASONS 2019.

No flood damages restoration work was carried out during the year 2019. Only 91904Cs water has been passed Down Stream of Rasul Barrage during Flood season.

FLOOD SEASONS 2020.

No flood damages restoration work was carried out during the year 2020. Only 91904Cs water has been passed Down Stream of Rasul Barrage during Flood season.

FLOOD SEASONS 2021.

No flood damages restoration work was carried out during the year 2021. Only 31420 Cs water has been passed Down Stream of Rasul Barrage during Flood season.

FLOOD SEASONS 2022.

No flood damages restoration work was carried out during the year 2022. Only 23610 Cs water has been passed Down Stream of Rasul Barrage during Flood season 2022.

FLOOD SEASONS 2023.

No flood damages restoration work was carried out during the year 2023. Only 35325 Cs water has been passed Down Stream of Rasul Barrage during Flood season 2023.

FLOOD SEASONS 2024.

No flood damages restoration work was carried out during the year 2024. Only 66960 Cs water has been passed Down Stream of Rasul Barrage during Flood season 2024.

FLOOD SEASONS 2025.

i) BHEIKHO DRAINAGE SYSTEM

Bheiko outfall Lower drain left embankment damages at rd 3+500 to 4+000 due to overflowing water during last flood season. The concern of the damages of embankment filled at clear at site during season on emergent basis .

Now for the safety of the upcoming flood season this reaches should be More raise with 2 to 3 ft earth layer in expected super high flood

ii) P.R.K DRAINAGE SYSTEM

Managed by Rasul, Kolian, and Hellan sections; focus remains on watching structures during high floods and executing the RD 40+388 restoration

CHAPTER-7
FLOOD FIGHTING WATCHING ARRANGEMENT

7.1 PRE FLOOD ARRANGEMENT

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

The flood fighting material will be kept in stores which are located in the premises of Canal Colony at Mandi Bahauddin under the control/ custody of the Sub Engineers concerned.

There is no reserve stock of stone in this Division.

7.2 WATCHING ESTABLISHMENT

Following watching establishment will be engaged during the flood season for watching and general maintenance of flood works on monthly basis. However, in case of very high flood or in real emergency, the strength of watching establishment will be increased with the express permission of Executive Engineer, Drainage Division Mandi Bahauddin.

Watching Establishment Details										
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/Shift (1 Shift)		**1 Person/ mile/Shift (1 Shift)**		**2 Person/ mile/Shift (2 Shift)**		**5 Person / mile/ Shift (3 Shift)**	
1	Malakwal Flood Bund	0.662	1	1	1	1	2	2	5	3
2	Budhi Nallah Flood Bund	3.503	2		3		7		17	
TOTAL Per Shift :-			**3**		**4**		**9**		**22**	
Total			**3**		**4**		**18**		**66**	
No. of Mates			**0**		**0**		**2**		**5**	

Note: 01 No. Mate is for every 12 No. Beldars

7.3 ARRANGEMENT AT SENSATIVE SITE

Necessary flood fighting material will be kept ready at vulnerable site as per item 7.4.

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.	Budhi Nallah Flood Bund	3.503	3-4, 6-7 & 13-18+500	1	-	-	-
Total				**1**	-	-	-

7.4 WATCHING MATERIAL.

There will be two No. watching centers on flood embankment along all Drains at mentioned RDs or where suitable as per site situation which will be shared to all concerned at once in case of any change. Flood material will be arranged and stored for Flood Bund. The material will be shifted to flood fighting camp as soon as the intimation of medium / high flood limit is received.

Minimum Requirement of Flood Fighting Material for Permanent Camps (15 miles)

Sr #	Items	Unit	Total Required Qty	Available Qty	Balance	Remarks
01	Shouldari / Tent	No	1	0	1	Material will be procured before flood season Subject to verification by Competent
02	Chairs	No	6	0	6	
03	Table	No	1	0	1	
04	Generator (2–3 KVA)	No	1	0	1	
05	Pedestal Fans	No	1	0	1	

06	Charpois	No	2	0	2	Authority
07	Symbolic Jackets	No	50	0	50	
08	Polyethene Sheet	Kg	100	0	100	
09	Bamboos (4" dia and 10 ft long)	No	100	0	100	
10	Water Cooler	No	01	0	01	
11	Portable Umbrella	No	2	0	2	
12	Life Jackets	No	5	0	5	
13	Utensils (10 person serving)	No	01	0	01	
14	Jute/Plastic Bags	No	1000	0	1000	
15	Walkie Talkie Set	Sets	2	0	2	
16	Raincoats	No	10	0	10	
17	LED Flood Light	No	10	0	10	
18	Extension Cable (10 ft)	No	2	0	2	
19	Rechargeable Torches	No	20	0	20	
20	Kassi	No	20	0	20	
21	Axes	No	20	0	20	
22	G.I Buckets	No	5	0	5	
23	7/44 Cable	Feet	500	0	500	
24	Sutli	Kg	2	0	2	
25	Sewing Needles	No	10	0	10	
26	Emergency Medical Kit	No	01	0	01	
27	Wire Crates (3x3x3) (at only those camps near river action and reserve stock exists)	No	100	0	100	

Following minimum requirement of Flood Fighting Material for Temporary Camp (7 or 5 miles during medium to exceptionally high flood to be outsourced)

Sr #	Items	Unit	Total Required Qty / Camp	Remarks
01	Shouldari / Tent	No	01	Material for

02	Walkie talkie set	No	01	temporary camps (07 or 05 miles during medium to exceptionally high flood) will be outsourced.
03	Chairs	No	06	
04	Raincoats	No	10	
05	Table	No	01	
06	Flood Light	No	10	
07	Generator (2–3 KVA)	No	01	
08	Extension cable	No	02	
09	Pedestal Fans	No	01	
10	Rechargeable torch	No	20	
11	Charpois	No	02	
12	Kassi	No	20	
13	Symbolic Jackets	No	50	
14	Axes	No	20	
15	Water Cooler	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	

7.5 ARRANGEMENT FOR SOUNDING AND PROBING

This item relates to barrage / Head works & Canal Divisions.

7.6 LIGHTING ARRANGEMENT

Sufficient number of emergency lights, lanterns and patromaz lamps has already been provided. Petrol Generators has been arranged and made available for lighting arrangements.

7.7 RATION ARRANGEMENT

It is the responsibility of District Administrator Department to provide the ration arrangements.

7.8 P.O.L ARRANGEMENT FOR VEHICLE

Respective Deputy District Office (Revenue) will be requested by the Sub Divisional Officer incharge to provide help for reserve at the nearest Petrol Pumps to keep the vehicles on. Any obstruction found there, will be pointed out by the Sub Divisional Officer.

7.9 TRANSPORTATION

Already allocated vehicles to the Division will be used during flood season. In case of exceptionally high flood in River Jhelum, District Coordination Officer, will be requested to supply additional vehicles for the Supervisory staff and for transportation of labour as well as flood fighting material to the sites of work.

7.10 LAW AND ORDER

There is no likehood of any interruption by any one except cutting of banks of channels to reduce heading up. In case of necessity, District Coordination Officer Mandi Bahauddin will be contacted by the Executive Engineer Drainage Division Mandi Bahauddin to take decision at site and Sub Divisional Officer Bahauddin / Phalia will seek the help of Deputy District Officer, Revenue / Assistant Commissioner Mandi Bahauddin in case of emergency.

7.11 MEDICAL ARRANGEMENT FOR LABOUR

It will be responsibility of Health Department to provide Medical Facilities in flood areas.

7.12 LIAISON WITH OTHER DEPARTMENTS

Executive Engineer Drainage Division Mandi Bahauddin will keep liaison with the Civil and Army Authorities and will keep the Superintending Engineer L.J.C Jhelum fully apprised of the flood situation in Drainage Division.

7.13 ROLE OF ARMY

Liaison with the Army Authorities will be maintained during floods and if required necessary help will be sought at appropriate level.

7.14 DUTIES OF TELEPHONE ATTENDANT

Permanent telephone attendants are already available in the office of the Executive Engineer Drainage Division Mandi Bahauddin for communication of urgent messages.

Sr. No	Name of Telephone Attending Official	Contact No.	During	
			From	To
1	Anwar ul Haq	0546-506302	9:00 Am	3:00 Pm
2	Muhammad Naveed	0546-506302	3:00 Pm	08:00 Pm
3	Iftikhar Ahmed	0546-506302	8:00 Pm	10:00 Pm
4	Muhammad Azam	0546-506302	10:00 Pm	6:00 Am
5	Farooq Ahmad	0546-506302	6:00 Am	9:00 Am

Permanent telephone attendants are already available in the office of the Executive Engineer Drainage Division Mandi Bahauddin for communication of urgent messages.

7.15 WIRELESS ARRANGEMENT

Wireless system will be installed w.e.f. 01.06.2025 in the vehicle of Executive Engineer Drainage Division Mandi Bahauddin No.GBC-410, Sub Divisional Officer Phalia Drainage Sub Division Suzuki SGQ-780 & Sub Divisional Officer Bahauddin Drainage Sub Division Jeep No.SGP-3001.

CHAPTER-8

DETAIL OF ENCROACHMENT

There is no encroachment on flood bunds of Drainage Division Mandi Bahauddin.

Total Encroachments	Removed Encroachments	Balance Encroachments
NIL	N/A	NIL

CHAPTER-9

DUTY ROSTER OF FLOOD/ FLOOD FIGHTING PROGRAM.

Key Personal	Battle Stations	Drains & Flood Embankments	Name of Drainage Sub Division.
Executive Engineer Drainage Division Mandi Bahauddin			
Sub Divisional Officer Bahauddin Drainage Sub Division Mandi Bahauddin	RD.1+000	Malakwal Flood Bund	Bahauddin Sub Division
Sub Divisional Officer Phalia Drainage Sub Division Mandi Bahauddin	RD.9+200	Budhi Nallah Flood Bund	Phalia Sub Division
Sub Engineer Budhi Nallah.	RD.18500	Bheikho Outfall Upper drain.	Phalia Drainage Sub Division
Sub Engineer Budhi Nallah	RD-0.	Bheikho Outfall Upper drain	Phalia Drainage Sub Division
Sub Engineer Budhi Nallah	RD.16500	Main Phalia Drain.	Phalia Drainage Sub Division
Sub Engineer Hellan	RD-9+100	P.R.K drain	Phalia Drainage Sub Division.
Sub Engineer Kolian	RD.88	P.R.K Drain	Rasul Drainage Sub Division
Sub Engineer Mamdana	RD.0	Bheikho Outfall Lower drain.	Bahauddin Drainage Sub Division

CHAPTER-10
EMERGENCY TELEPHONE NUMBERS.

Sr. No.	Designation	Office	Residence / Mobile
1.	Minister Irrigation.	042-99212809-10	042-99212809-10
2.	Secretary, Irrigation.	042-99212117 042-99212118	042-99201053
3.	Additional Secretary (Tech :)	042-99212128	042-99212128
4.	Additional Secretary (OP)	042-99212123	042-99212123
5.	Deputy Secretary (Admn)	042-99212224	042-99212224
6.	Deputy Secretary (OP)	042-99212127	042-99212127
7.	Deputy Secretary (Dev)	042-99212129	042-99212129
8.	Section Officer Flood	042-99212134	042-99212134

SARGODHA IRRIGATION ZONE

1.	Chief Engineer, Irrigation Sargodha	048-9230445	048-9230451 0322-4486727
2.	Executive Engineer (OP), Sargodha	048-9230446	048-3740050 0345-5165764
3.	Superintending Engineer, Drainage Circle Sargodha	048-9230450	0333-8161746
4.	Executive Engineer, Drainage Divn: M.B.Din.	0546-506302	0308-3262291
5.	Executive Engineer, Rasul LJC Divn: Rasul.	0546-553211	0308-3262291
6.	Sub Divisional Officer Phalia Drainage Sub Division M.B. Din	0546-506302	0300-7752378
7.	Sub Divisional Officer, Bahauddin Drg: Sub Divn:	0546-506302	0303-8536147

DISTRICT ADMINISTRATION M.B.DIN

1.	Deputy Commissioner M.B Din	0546-504220	0546-504200
2.	District Police Office M.B Din	0546-502324	0546-502324
3.	District Officer Revenue M.B Din	0546-506488	0546-506488
4.	District Flood Control Officer M.B Din	0546-504220	0546-504220
5.	Assistant Commissioner Mandi Bahauddin.	0546-503850	0546-503850
6.	Assistant Commissioner Malikwal	0546-591276	0546-591276
7.	Assistant Commissioner Phalia	0546-596460	0546-596460
8.	Rescue 1122 Mandi Bahauddin	1122	1122

FLOOD CONTROL CENTRE PUNJAB, LAHORE

1.	Flood Warning Centre 46- Jail Road Lahore	042-7572091-93	042-7572092
2.	Flood Cell I & P Secretariat Lahore	042-9212147	Fax:9212116
3.	Flood Emergency Board of Revenue	042-9204408	042-9210555
4.	Chief Engineer D & F Lahore	042-99233551 042-35291304	042-99233551
5.	Director Flood D & F Zone Lahore	042-99231614	042-99231614

MILITARY ENGINEER'S TELEPHONE NUMBERS

1.	Headquarter Engineer 30-Corps Gujranwala Cantt.	0553-269/2353
2.	11-Engineer Battalion Sialkot Cantt.	052-571/5186
3.	Headquarter Engineer 1-Corps Kharian Cantt	053-59/2364

CHAPTER-11

STANDARD OPERATING PROCEDURE (SOP) FOR BREACHING SECTION.

11.1 HISTORY OF BREACHING SECTION

There is no breaching section in this Division.

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

Not applicable.

11.3 ARRANGEMENT OF EXPLOSIVE AND SECURITY OF EXPLOSIVE STORES

Not applicable.

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

Not applicable.

11.5 DETAIL OF MACHENICAL MEANS AS A STANDBY ARRANGEMENT IN CASE OF DETONATION FAILURE.

Not applicable.

11.6 DUTY ROSTER IN CASE OF CRITICAL SITUATION

Not applicable.

11.7 BREACHING COMMITTEE WITH THEIR ACTION PLAN

Not applicable

11.8 LIST OF THE VILLAGES LIKELY TO BE INUNDATED IN CASE OF BREACH

Not applicable.

11.9 ANNOUNCEMENT AND DETAIL OF EVACUATION ARRANGEMENT

Not applicable.

11.10 DETAIL OF COORDINATION WITH CIVIL / ARMY AUTHORITIES.

Not applicable.

11.11 PARALLEL COMMUNICATION ARRANGEMENTS.

Not applicable.

11.12 INDEX PLAN.

Copy attached……

Sub Divisional Officer
Bahauddin Drainage Sub Division
Mandi Bahauddin.

Sub Divisional Officer
Phalia Drainage Sub Division:
Mandi Bahauddin.

Executive Engineer
Drainage Division
Mandi Bahauddin

Superintending Engineer
Sargodha Drainage Circle
Sargodha.

Chief Engineer
Irrigation Sargodha Zone
Sargodha.

PART-B

CHAPTER-12

VULNERABLE SITES ON FLOOD BUNDS/ STRUCTURES

12.1 APPREHENDED BREACH SITES IN FLOOD BUNDS/ STRUCTURES

There are no critical sites of flood bund where there is apprehension of any mishap due to flood in River Jhelum / Chenab.

1. Budhi Nallah Flood Bund between RD 3-4, 6-7 & 13-18+500.

12.2 OPERATION OF BREACHING SECTIONS

There are no breaching sections in drainage division Mandi Bahauddin.

12.3 BREACHES DUE TO RISE OF WATER, DETERRIORATION OF FLOOD BUNDS

No such occurrence.

CHAPTER-13

EMERGENCY CONTINGENCY PLAN FOR SITE

EMERGENCY CONTINGENCY PALN FOR SITE NO.02

B. (BUDHI NALLAH FLOOD BUND AT RD.9+200.)

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

Plan showing route of Flood water coming out of the breach for site No.02 i.e RD. 9+200 plan attached at page 36.

Annexure-B.

B. BUDHI NALLAH FLOOD BUND.

13.2 DETAIL OF VILLAGES ABADIES LIKELY TO BE AFFECTED (TO BE SHOWN ON THE MAPS), THE EXTENT AND DEPTH OF ANTICIPATED INUNDATIONS, EMERGENCY PROTECTION MEASURES AND EVACUATION PLAN.

The tentative area inundated by the flood water will be 40 square KM as shown on attached plan at Annex – "C" Detail of Villages/Abadies are as under: -
Channi Mughalla, Qadirabad, Farakh Pur, Alahan, Dharam Kot, Jaggo & Syada

13.3 STRATEGY AND ACTION TAKEN BE EXPLAINED IN DETAIL.THIS MAY INCLUDE

BUDHI NALLAH FLOOD BUND.

There was high flood in River Chenab during recent flood season in the jurisdiction of Phalia Drainage Sub Division Mandi Bahauddin. Budhi Nallah drain is meant for disposal of flood water and seepage water of Drainage Systems failing in District Gujrat & Mandi Bahauddin. 2 No another creek locally known as Halki creek exists. These creeks become active during heavy rains/high flood. During High Flood water of these creeks River Chenab causes exceptionally high Flood in Budhi Nallah outfall drain. Resultantly, pressure built up on right bank, which breached at various spots, during August 2010, heavy rains and high flood having magnitude of 3.60 Lac Cs (D/S Qadirabad) caused havoc, heavy loss of standing crops infrastructures and abadies.

The length of Budhi Nallah Flood Bund is 18000 feet, due to requirement of site condition Budhi Nallah Flood protection Bund is proposed be extended /constructed up to 8000 feet along Bheikho outfall Upper drain for the safety of the adjoining abadies and agriculture land.

13.3.1. ARRANGEMENTS.

In view the experience of the past flood history day & night watching required to control the flood situation during rainy season.

Constant vigilance and caution will be required at all levels particularly on the spots for relief and flood fighting on drains, flood embankments.

13.3.2. ESTABLISHMENT OF FLOOD FIGHTING CAMPS.

A tent would be at site and all the resources manpower and material required for controlling the situation would be immediately shifted from the shelter huts to this tent which would then become the emergency camp for carrying out all the flood fighting operations the Sub Engineer nominated by the Executive Engineer.

BUDHI NALLAH FLOOD BUND.

Sr. #.	Key Personal	Name of drain.	Battle Station	Name of village likely to be effected.	Drainage Sub Division	Civil Sub Division.
1	Sub Engineer Budhi Nallah	Budhi Nallah Drainage System.	RD.9+200	Qadirabad , Saida & Jaggo	Phalia Drainage Sub Division	Phalia

WATCHING ESTABLISHMENT.

Following watching establishment shall be engaged during the flood season for watching and general maintenance of flood works on monthly basis. However, in case of very high flood or in real emergency, the strength of watching establishment may be increased with the express permission of Executive Engineer, Drainage Division Mandi Bahauddin.

13.3.3. DUTIES OF OFFICERS/ OFFICIALS AND THEIR CAMP SITES

1. Executive Engineer Drainage Division Mandi Bahauddin.

The Flood activities in the jurisdiction of Mandi Bahauddin Drainage Division have been divided in to one sub set sectors i.e. Sub Sector No.01. The incharge of Sub Sector are Sub Divisional Officers of Bahauddin Drainage Sub Division Mandi Bahauddin as per following details.

DETAIL OF CAMP SITES.

Sr.No.	Name of Flood Bund.	Name of Officer	Name of Official	Camp RD.
2	Budhi Nallah Flood Bund RD.0-18500.	**Tahir Mehmood** S.D.O Phalia	Mansha Khan Sub Engineer Budhi Nallah Section.	9+200

2. SUB DIVISIONAL OFFICER BAHAUDDIN DRAINAGE SUB DIVISION.

Incharge Sub Sector No.01 will monitor the Flood Fighting /watching activities in the part area of Malakwal Flood Bund on the left side of River Jhelum. The flowing Drainage System are directly effected by the River Chenab spill the Drainage function as Flood embankments and protection of Bhekho Outfall lower& Upper drain & Budhi Nallah Flood Bund.

Sr.No.	Name of Bund.	Length of Bund	Top width	Side slope	Free Board from 11.F.I
1.	Flood Bund along Budhi Nallah RD.0-18500.	18500	25 feet	2:1 on either side.	5 feet.

Keeping in view of vulnerable location of drains & Flood Plan, it is essential to take up flood preparedness activities like strengthening weak and Ghats sides clearance of Jungle, shurb from banks and slope and making them fit to face the ensuing floods. Therefore, a gang of one man per mile employee from 15 June to 15 September in additional to existing establishment of one Beldar in six mile length of drain. The terminology of different kinds of floods i.e. low Medium, High and exceptionally high and they will be taken as such in the light of any wireless message received respective warning centers.

Key Personal	Battle Stations	Drains & Flood Embankments	Name of Drainage Sub Division.
Sub Engineer Budhi Nallah.	RD.18500	Bheikho Outfall Upper drain.	Phalia Drainage Sub Division
Sub Engineer Budhi Nallah	RD-0.	Bheikho Outfall Upper drain	Phalia Drainage Sub Division
Sub Engineer Budhi Nallah	RD.16500	Main Phalia Drain.	Phalia Drainage Sub Division

13.3.4. DEPARTMENTAL MACHINERY AVAILABLE

Department has no machinery of any kind. However, in emergency, machinery will be arranged by the Municipal Committee, District Government and Agricultural Engineering Department.

13.3.5. MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Suitable arrangement with Agricultural Engineering Department in time of emergency of closing leakage or breaches on flood bunds. Moreover excavator and tractor trolleys are available with local inhabitants of Budhi Nallah Flood Bund, which can be deployed for necessary flood fighting in emergency.

13.3.6.

BUDHI NALLAH FLOOD BUND SITE NO.02

Sr #	Items	Unit	Total Required Qty	Available Qty	Balance	Remarks
01	Shouldari / Tent	No	1	0	1	Material will be procured before flood season Subject to verification by Competent Authority
02	Chairs	No	6	0	6	
03	Table	No	1	0	1	
04	Generator (2–3 KVA)	No	1	0	1	
05	Pedestal Fans	No	1	0	1	
06	Charpois	No	2	0	2	
07	Symbolic Jackets	No	50	0	50	
08	Polyethene Sheet	Kg	100	0	100	
09	Bamboos (4" dia and 10 ft long)	No	100	0	100	
10	Water Cooler	No	01	0	01	
11	Portable Umbrella	No	2	0	2	
12	Life Jackets	No	5	0	5	
13	Utensils (10 person serving)	No	1	0	1	
14	Jute/Plastic Bags	No	1000	0	1000	
15	Walkie Talkie Set	Sets	02	0	02	
16	Raincoats	No	10	0	10	
17	LED Flood Light	No	10	0	10	
18	Extension Cable (10 ft)	No	02	0	02	
19	Rechargeable Torches	No	2	0	2	
20	Kassi	No	20	0	20	
21	Axes	No	20	0	20	
22	G.I Buckets	No	5	0	5	
23	7/44 Cable	Feet	500	0	500	
24	Sutli	Kg	2	0	2	
25	Sewing Needles	No	10	0	10	
26	Emergency Medical Kit	No	01	0	01	

27	Wire Crates (3x3x3) (at only those camps near river action and reserve stock exists)	No	-	-	-	

13.3.7 FLOOD FIGHTING METERIAL AVAILABLE SITE NO.02

No Any Kind of Flood Fighting Material available at site or in store.

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

There area where it is likely hood of mishap is remote area, there is no such huge infrastructure like Grid Station, Sui Gas Station exists in this area. However town, villages, roads and Electric lines Canals and drainage network will suffer due to spill out water of the River Chenab.

BUDHI NALLAH FLOOD BUND.

Flooded water directly entered and hit to Qadirabad Town, Jaggo, Bheikho, Thatti Shah Muhammad, Farakh Pur. Therefore existing flood embankment should be protected with stone pitching and raising of flood embankment.

Executive Engineer
Drainage Division
Mandi Bahauddin

Superintending Engineer
Sargodha Drainage Circle
Sargodha.

Chief Engineer
Irrigation Sargodha Zone
Sargodha.

CHAPTER-14

Action Plan

14.1 Re-shuffling/ Recouping plan of reserve stone departmentally

There is no reserve stock of stone in this division.

14.2 Detail of inlet/ outlet crossing along with closing methodology

There is no Inlet/Outlet crossing exist in Budhi Nallah flood bund.

14.3 Deployment of Machinery (Medium to high flood)

Deployment of Machinery (Normal to Low Flood) in Drainage Division Mandi Bahaudin .						
Sr. No.	**Structure Name**	**Length (Miles)**	**Excavators**	**Trolleys**	**Dumpers**	**Tractor with Front blade (1 per 15 mile)**
1	**Malakwal Flood Bund**	0.663 (Mile)	S.E shall allow deputation of one (1) excavator & four (4) Trolleys during low flood at camps/vulnerable points & LMB / RMB.		-	
2	**Budhi Nallah Flood Bund**	3.503 (Mile)			-	
Total					-	

Payment for machinery and work charge employees subject to verification by TPM/Consultant.

14.4 Deployment of Machinery (High to very high flood)

Deployment of Machinery (Medium to High Flood) Drainage Division Mandi Bahauddin						
Sr. No.	**Structure Name**	**Length (Miles)**	**Excavators**	**Trolleys**	**Dumpers**	**Tractor with Front blade**
			1 per 7 mile	**4 per 7 mile**	**2 per 7 mile**	**1 per 7 mile**

1	Malakwal Flood Bund	0.663 (Mile)	1	1	1	1
2	Budhi Nallah Flood Bund	3.503 (Mile)	1	1	1	1
Total			**2**	**2**	**2**	**2**

Payment for machinery and work charge employees subject to verification by TPM/Consultant.

14.5 Deployment of Machinery (Very high to exceptionally high flood)

Deployment of Machinery (Very High to Exceptionally High Flood) Drainage Division Mandi Bahauddin								
Sr. No.	**Structure Name**	**Length (Miles)**	**Excavators**		**Trolleys**	**Dumpers**	**Tractor with Front blade**	
			Very High Flood	**Exp. High Flood**	**4 per 5 mile**	**2 per 5 mile**	**Very High Flood**	**Exp. High Flood**
			1 per 5 mile	**2 per 5 mile**			**1 per 5 mile**	**2 per 5 mile**
1	Malakwal Flood Bund	0.663 (Mile)	1	1	1	1	1	1
2	Budhi Nallah Flood Bund	3.503 (Mile)	1	1	1	1	1	1
Total			**2**	**2**	**2**	**2**	**2**	**2**

Payment for machinery and work charge employees subject to verification by TPM/Consultant.

14.6 Police Deployment Plan

District administration of Mandi Bahauddin will be contacted by the Executive Engineer to provide police officers for security purposes in case of emergency.

Sr. No.	Vulnerable sites used for illegal cuts during floods	Concerned Canal Division	Concerned Police Station & Distt	Police Persons Deployed		Remarks (if any)
				Inspector/ Sub Inspector/ASI	Constable	
01	Malakwal Flood Bund RD 0-3+500	Drainage Division Mandi Bahauddin	Malakwal	Sub Inspector = 01	03	-
02	Budhi Nallah Flood Bund RD 3-4, 6-7 & 13-18+500	Drainage Division Mandi Bahauddin	Qadirabad	SI = 01 ASI=01	05	-

14.7 Details of synthetic bags with capacity of 500 kg and 1000.kg

Sr.No.	Name of Structure	Length in Mile	Vulnerable Reach	Camp Location	Site Incharge by name & Cell No.	No. of Synthetic bags				Remarks
						500 Kg		1000 Kg		
1	2	3	4	5	6	7		8		9
1	**Malakwal Flood Bund**	0.663	¦	RD: 0+000	Ghulraiz Haider Sub Engineer 0316-1776059	Required	Available	Required	Available	Not available at stock and will be procured in emergency.
						100	Nil	125	Nil	

2	**Budhi Nallah Flood Bund RD 3-4, 6-7 & 13-18+500**	3.603	RD.3-4, 6-7 & 13-18+500.	Rd 9+200	Abdur Rehman Sub Engineer 0300-1050098	200	Nil	125	Nil	

14.8 Details of polythene sheet of black colour to protect upstream slope against wave action and to control seepage through embankments.

S No.	Name of Structure	Length in Mile	Vulnerable Reach	Camp Location	Site In-charge by name & Cell No.	Plastic Sheet (Sft		Remarks
						Required	Available	
1	2	3	4	5	6	7	8	9
1	**Malakwal Flood Bund**	0.662	--	0+000	Ghulraiz Haider Sub Engineer. Malakwal Section 0316-1776059	100	Nil	Not available at stock and will be procured in emergency.
2	**Budhi Nallah Flood Bund**	3.503	RD.3-4, 6-7 & 13-18+500.	8+000	Abdur Rehman Sub Engineer 0300-1050098	150	Nil	

14.9 Any other details as per SOPs approved by the Administrative Department.

SOPs shared vide letter No.SO(FLOODS)VII-22/2017 dated 26.12.2025 shall be strictly folowed.

CHAPTER-15

BACK UP DIVISIONS IN CASE OF BREACH

Gujrat Canal Division UJC Gujrat and Rasul Canal Division L.J.C Rasul will be worked as back up Division in case of emergency/Breach.

Sub Divisional Officer
Bahauddin Drainage Sub Division
Mandi Bahauddin

Sub Divisional Officer
Phalia Drainage Sub Division
Mandi Bahauddin.

Executive Engineer
Drainage Division
Mandi Bahauddin.