CHAPTER # 1.

SALIENT FEATURE OF SAMUNDRI DRAINAGE DIVISION, FAISALABAD.

1.1 LOCATION

INTRODUCTION

Samundri Drainage Division was established in the year 1964 with the primary objective of providing drainage facilities to the highly cultivated areas of District Hafizabad, Faisalabad, Chiniot, Toba Tek Singh, and Jhang. In addition to drainage functions, the Division is entrusted with flood management responsibilities along the River Chenab, particularly through the Chiniot Flood Bund, which is a paramount flood protection structure safeguarding both urban and rural settlements on the left bank of the river.

The Chiniot Flood Bund constitutes the backbone of flood mitigation in the region. Its strategic importance arises from the vulnerable topography of the area, where the general land slope trends from North-East to South-East. Any failure or breach on the upstream left bank could result in prolonged inundation before floodwaters rejoin the river, causing extensive damage to settlements, infrastructure, and agricultural lands. Therefore, the Chiniot Flood Bund plays a critical role in protecting Chiniot City, the Pindi Bhattian–Chiniot Highway, surrounding abadis, and essential public utilities.

1.2 GENERAL DESCRIPTION

HISTORICAL DEVELOPMENT AND STRUCTURAL SIGNIFICANCE OF CHINIOT FLOOD BUND

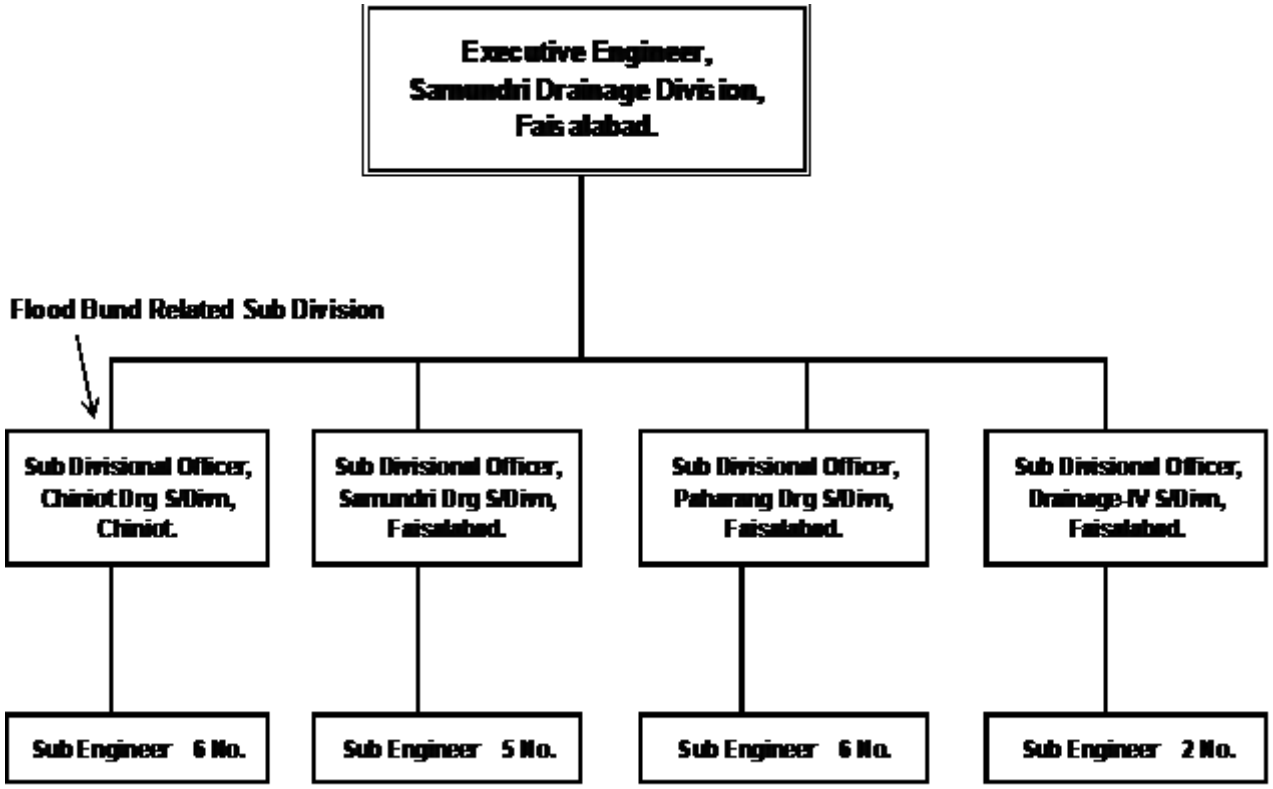
The Chiniot Flood Bund was originally constructed during 1968–69 over a limited length of approximately 46,000 feet. At that stage, the bund lacked proper tie-in with a high natural ridge, a design limitation that became evident during the major floods of 1973 and 1976. During these flood events, the bund was outflanked, resulting in widespread inundation and severe losses to public and private property.

In response to these failures, the flood bund was extended during 1976–78 to its present length of approximately 98,500 feet, thereby improving its continuity and effectiveness. Further structural strengthening was carried out during 1979–80 through the construction of two spurs at RD 28+750 and RD 55+000. These spurs were designed to train river flow, reduce erosive forces, and minimize direct attack on the bund slopes.

Since these improvements, the Chiniot Flood Bund has remained a vital and reliable flood defense structure, provided that proper maintenance, monitoring, and flood-fighting arrangements are ensured during high flood events.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

1.3 ADMINISTRATIVE SETUP



Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 2

FLOOD PROTECTION AND RIVER TRAINING WORKS.

2.1 DESIGN PARAMETER OF CHINIOT FLOOD BUND.

MAIN BUND.

Sr. No.	Particulars	RD	Length	Top Width	Side Slopes		Free Board	Slope
					Inner	Outer		
					River Side	Country Side		
1	Without Wetting Channel	0+000 to 5+000	5000	25'	3:1	2:1	6'.0 above H.F.L of 1973	1 in 5000
2	With Wetting Channel	5+000 to 88+500	83500	25'	2:1	2:1	-do-	-do-
	Total Length RD 0-88500.		**98500**					

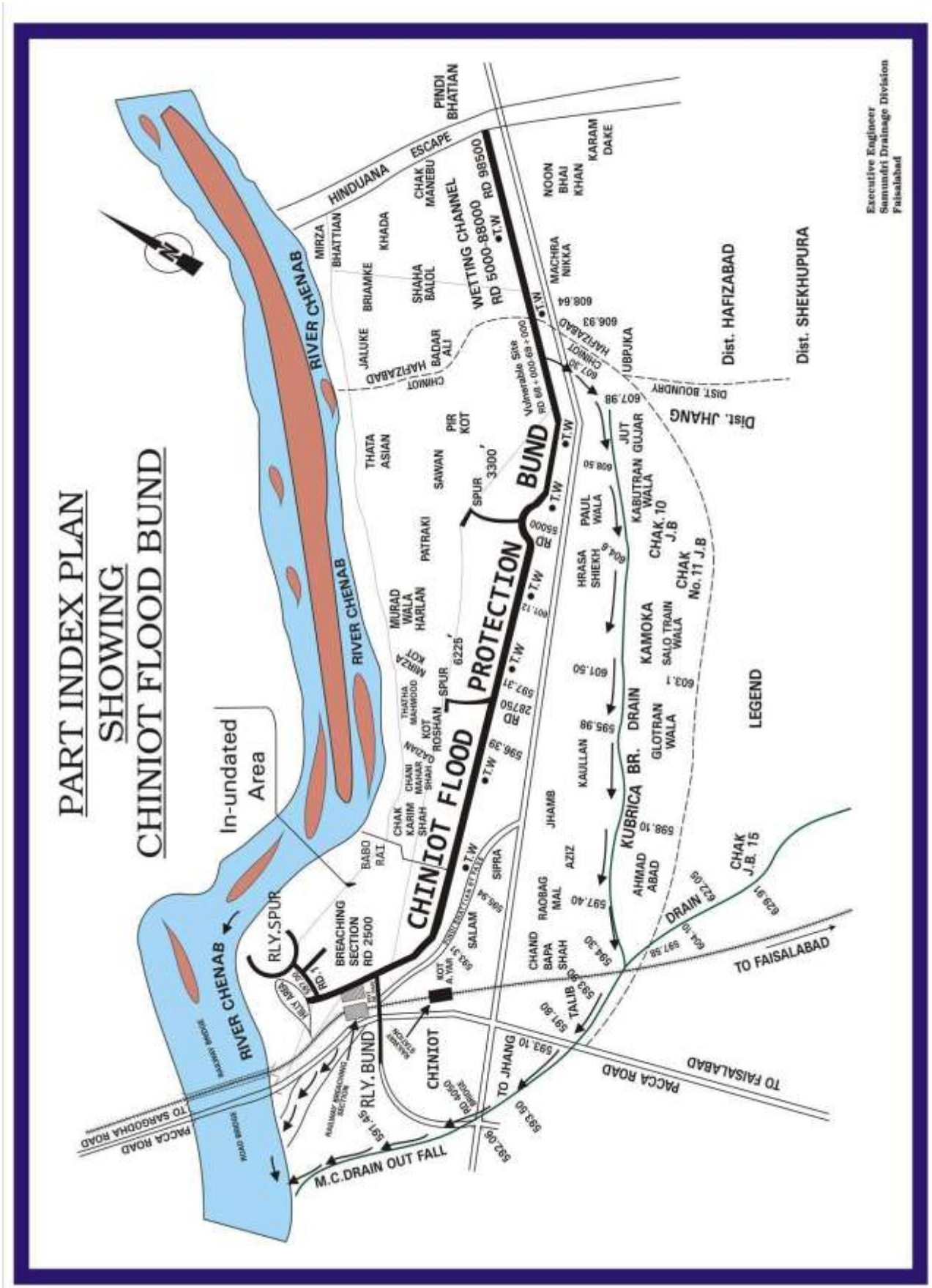
WETTING CHANNEL.

Particulars	RD	Length	Designed Top width of River, Side Bank	Side Slopes		Free Board	Slope
				Outer	Inner		
				River Side	Country Side		
Bund With Wetting Channel	5+000 to 88+500	83500'	6.0'	3:1	2:1	2'.0 from H.F.L 1973	1 in 5000

SPURS.

RD. of Spur	Type	Length of Shank	Designed top width		Side Slopes				Stone Apron	Stone Pitching
			Earthen	Armored	Earthen	Armored	Earthen	Armored		
					D/S	R/S	D/S	R/S		
28+750	J-Head 744' with 1:10 tail	6+225'	25' (0-5+177)	40' (5+177 to 6+225)	3:1	3:1	3:1	2:1	75' x6'	1.3' over 0.70' Spawal.
			Top R.L.613.00							
55+000	-do-	3+300	25' (0-2+252)	40' (2+252 to 3+300)	3:1	3:1	3:1	2:1	75' x6'	1.3' over 0.70' Spawal.
			Top R.L.619.00							

2.2. LOCATION MAP



CHAPTER # 3

BRIEF HISTORY OF PAST FLOOD EVENTS.

The River Chenab has historically posed a significant flood risk to Chiniot City, particularly during periods of exceptionally high monsoon discharge. In this context, the Chiniot Flood Bund serves as the primary flood protection line for safeguarding the urban population, infrastructure, and adjoining agricultural areas.

The flood of 1992 remains one of the most critical events on record. During this extreme flood, a maximum discharge of 948,530 cusecs was observed passing through the Chiniot Railway Bridge. Concurrently, a peak gauge level of 602.35 feet was recorded at RD 5+000 of the Chiniot Flood Bund. Despite the exceptionally high hydraulic load, the designated breaching section was not operated, and the bund successfully withstood the flood pressure without overtopping or failure.

This historic event serves as a benchmark for flood preparedness, structural evaluation, and emergency response planning for the Chiniot Flood Bund. The details of past flood events are summarized as below:

Date. C.F.B.	Time (Hrs)	Discharge (Cusecs) Chiniot Railway Bridge.	Critical Gauge at RD 5+000
10.08.1973	00-12	854000	
20.09.1988	15-20	892229	602.07
11.09.1992	06-00	948530	602.35
29.07.1995	09-00	640577	600.45
24.08.1996	11-00	851223	602.00
28.08.1997	06-00	873000	602.05
08.07.2005	06-00	379222	599.80
05.08.2006	20-00	286802	598.90
01.08.2008	06-00	74600	597.30
08.08.2010	16-00	272600	598.90
17.08.2013	03-00	383460	598.40
08.09.2014	07-00	842500	601.95
14.07.2015	04-00	147710	Water did not touch the gauge
09.08.2016	09-00	315540	597.90
04.08.2017	10-00	134560	Water did not touch the gauge
15.08.2018	07-00	161200	Water did not touch the gauge

Date. C.F.B.	Time (Hrs)	Discharge (Cusecs) Chiniot Railway Bridge.	Critical Gauge at RD 5+000
02.08.2019	06-00	147710	Water did not touch the gauge
29.08.2020	12-00	264191	Water did not touch the gauge
30.07.2021	01:00	140193	Water did not touch the gauge
29.07.2022	22.00	162746	Water did not touch the gauge
21.07.2023	22.00	170264	Water did not touch the gauge
17.08.2024	10.00	147710	Water did not touch the gauge
29-08-2025	02:00	855000	600.20

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 4

TIME LAGS AGAINST THE FLOOD LIMITS DOWNSTREAM QADIRABA BARRAGE AND PEAK DISCHARGES RECEIVED AT CHINIOT IN HISTORY

4.1 FLOOD LIMITS.

FLOOD LIMITS OF RIVER CHENAB DOWN STREAM QADIRABAD BARRAGE.

Site	Low (Cusec)	Medium. (Cusec)	High (Cusec)	Very High. (Cusec)	Exceptionally High
Qadirabad	100000 to 150000	150000 to 200000	200000 to 400000	400000 to 600000	600000 Cs and above.

4.2 TIME LAG OF FLOODS.

River	Site		Distance in Km	Time Log in Hours	
	From	To		Range	Indicative Average
Chenab	Marala	Khanki	56	10 -14	12
	Khanki	Qadirabad	30	6 -10	8
	Qadirabad	Chiniot Flood Bund RD. 5+000	101	30 - 42	36

4.3 HIGHEST FLOODS & PEAK DISCHARGES.

Sr. No.	Year	Discharge Cs.	Critical Gauge.
1	20.09.1988	892229	602.07’
2	11.09.1992	948530	602.35’
3	24.08.1996	851223	602.00’
4	28.08.1997	873600	602.05’
5	08.09.2014	842500	601.95'
6	29.08.2025	855000	600.20

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 5

5.1 FLOOD FIGHTING STRATEGY.

FLOOD STAGES.

The flood fighting strategy for Chiniot Flood Bund has been planned with reference to anticipated flood discharges at the upstream controlling structure, namely Qadirabad Barrage, located on the River Chenab. As Qadirabad Barrage serves as the primary regulatory and monitoring point upstream of Chiniot, the discharge data and flood forecasts issued from this control point form the basis for activation of various stages of preparedness and response.

The strategy is structured to ensure timely mobilization of resources, deployment of field staff, strengthening of vulnerable reaches, and coordination with district administration in accordance with the magnitude of discharge released or anticipated at Qadirabad Barrage.

Accordingly, the flood fighting plan is categorized into different operational stages based on discharge thresholds at Qadirabad Barrage, as follows:

STAGE-I : High Flood Stage

*(*Up to 200,000 to 400,000 Cusecs downstream of Qadirabad Barrage *on* River Chenab*)*

When the discharge in River Chenab downstream of Qadirabad Barrage rises up to 2.00 lac cusecs**,** the High Flood Stage arrangements for Chiniot Flood Bund shall be activated immediately. A flood camp shall be established at RD 3+000 and 38+000 of the bund, which will serve as the central control point for monitoring, coordination, and execution of all flood fighting operations.

Under this stage, continuous and round-the-clock surveillance of the bund shall be ensured through the regular establishment of the Sub Division, deployed at the scale of two persons per mile in two shifts to maintain uninterrupted patrolling and vigilance. Particular attention shall be paid to vulnerable reaches, previously weak sections, and locations susceptible to seepage or erosion.

Each gang station shall be placed under the charge of a Mate/Mistri, supported by an establishment comprising 12 personnel. The flood monitoring arrangement shall consist of 06 gang, and the entire field team shall operate under the direct supervision of the concerned Sub Engineers, who shall ensure accurate gauge readings, proper reporting, and immediate response to any abnormal condition observed along the bund.

The Sub Divisional Officer (SDO) shall personally supervise the surveillance operations and ensure that the bund remains intact and secure. A formal duty roster shall be issued by the SDO for all deployed staff, clearly defining responsibilities and shift timings. The SDO shall remain available at the flood camp throughout the High Flood Stage to ensure prompt decision-making and effective coordination in case of any emergency.

For transparency and operational efficiency, a clearly visible board shall be displayed at the flood camp indicating the names, designations, and contact numbers of all

officers and officials deployed at site, including the SDO and Sub Engineers. This arrangement shall remain in force for the duration of the High Flood Stage to ensure timely detection of any signs of distress and immediate remedial action to safeguard the Chiniot Flood Bund.

STAGE-II: Very High Flood Stage

(Discharge from 400,000 to 600,000 Cusecs downstream of Qadirabad Barrage *on* River Chenab*)*

When the discharge in River Chenab downstream of Qadirabad Barrage ranges between 4.00 lac to 6.00 lac cusecs**,** the Very High Flood Stage shall be declared, and enhanced flood fighting arrangements shall be enforced for the protection of Chiniot Flood Bund.

Under this stage, two flood camps shall be established: one at RD 3+000 and the second at RD 38+000 and third camp shall be at RD 63+000 to ensure effective command, control, and rapid response over the entire vulnerable reach of the bund. The entire establishment of the Division, along with the concerned Sub Engineers as defined in the approved administrative setup, shall be mobilized immediately and deployed at site.

Continuous and intensive surveillance of the bund shall be carried out through the regular establishment at the scale of four (05) Beldars per mile, operating in three shifts, thereby ensuring round-the-clock monitoring without interruption. Each gauge station shall remain under the charge of a Mate/Mistri, supported by an establishment comprising 12 personnel. The field formation shall include 21 gangs, and the entire operational team shall function under the direct supervision of the concerned Sub Engineers, who shall ensure strict vigilance, accurate reporting, and immediate remedial measures wherever required.

Special monitoring arrangements shall be made at the critical gauge located at RD 5+000 of the bund. A dedicated Gauge Reader shall be deputed exclusively at this location to observe the gauge continuously and submit reports on an hourly basis.

In the event that the critical gauge reaches 598.00 R.L. with a rising trend, the Sub Divisional Officer, Chiniot Drainage Sub Division, Chiniot, shall immediately initiate action in accordance with the recommendations and procedures laid down in the Report of the Inter-Departmental Group on Operation and Maintenance of Flood Protection Works in Pakistan, Volume-I (Main Report).

These intensified measures under the Very High Flood Stage are aimed at ensuring maximum vigilance, prompt decision-making, and immediate execution of protective works to safeguard the structural integrity of Chiniot Flood Bund and protect Chiniot City and adjoining areas from potential flood damage.

STAGE-III: Exceptionally High Flood Stage

(Discharge exceeding 600,000 Cusecs downstream of Qadirabad Barrage *on* River Chenab)

When the discharge in River Chenab downstream of Qadirabad Barrage exceeds 6.00 lac cusecs (600,000 cusecs), an Exceptionally High Flood Stage shall be declared. At this level, the Chiniot Flood Bund becomes highly vulnerable, and maximum emergency flood fighting measures shall be enforced without delay.

Immediately upon confirmation that the discharge has crossed 6.00 lac cusecs at Qadirabad Barrage, three flood camps shall be established at RD 3+000, RD 38+000, and RD 63+000 to ensure complete operational coverage of the bund. The entire establishment of the concerned Division, along with the establishment of the adjoining Division (as detailed

below), shall be mobilized forthwith. All concerned Sub Engineers shall report to the bund and assume their designated flood duties.

Intensive round-the-clock surveillance shall be carried out through deployment of the regular establishment at the scale of four (05) Beldars per mile, operating in three shifts to ensure continuous and uninterrupted monitoring. Each gauge/gang shall be placed under the charge of a Mate/Mistri, supported by an establishment comprising 12 personnel. The entire field formation, consisting of three gangs, shall function under the direct supervision of the concerned Sub Engineers, who shall remain present on site and ensure immediate reporting and rectification of any distress such as seepage, erosion, sloughing, or overtopping threats.

Upon the discharge exceeding 6.00 lac cusecs, the following Sub Divisional officer & Sub Engineer shall be deployed along with their field staff to the bund and shall join the Sub Engineers of Chiniot Drainage Sub Division in seriatim for day and night shifts:

SDO 1 Kot Khuda Yar Sub Division (Along with Sub Engineers)

- Sub Engineer Bhobra Section (Along with Filed Staff)
- Sub Engineer Hinduana Section (Along with Filed Staff)
- Sub Engineer Beranwala Section (Along with Filed Staff)
- Sub Engineer Kot Khuda Yar Section (Along with Filed Staff)
- Sub Engineer Sarangwala Section (Along with Filed Staff)

SDO 2 Amin Pur Canal Sub Division (Along with Sub Engineers)

- Sub Engineer Kot Ahmad Yar Section (Along with Filed Staff)
- Sub Engineer Kot Wasava Section (Along with Filed Staff)
- Sub Engineer Amin Pur Section (Along with Filed Staff)
- Sub Engineer Newan Section (Along with Filed Staff)
- Sub Engineer Butti Section (Along with Filed Staff)

In addition, the Deputy Commissioner, Chiniot shall be immediately intimated about the exceptionally high flood situation in River Chenab downstream of Qadirabad Barrage and shall be requested to coordinate with the officers of Pakistan Railways for making necessary arrangements to ensure the safety of the Railway Bridge, which remains under direct hydraulic impact of the river flow during such extreme conditions.

The Deputy District Officer (Revenue), Chiniot, and the Sub Divisional Officer, Drainage Chiniot, shall jointly inspect the bund to verify that all flood fighting arrangements are in place and functioning effectively. Likewise, the Deputy Commissioner, Chiniot, and the Executive Engineer, Samundri Drainage Division, shall jointly or independently inspect the vulnerable reaches of the bund to satisfy themselves regarding the adequacy of surveillance and protective measures, and to issue on-site instructions wherever necessary to ensure the safety and integrity of the Chiniot Flood Bund.

These extraordinary measures shall remain enforced throughout the duration of the Exceptionally High Flood Stage to ensure maximum vigilance, inter-departmental coordination, and immediate response to any emergent threat.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 6

FLOOD DAMAGES RESTORATION WORKS.

All flood damage restoration works shall be completed well before the commencement of the monsoon season to ensure the intact and safe condition of the flood bund and to avoid any untoward situation during high flood events in the River Chenab. Such works shall include restoration of eroded slopes, strengthening of weak sections, rehabilitation of rain cuts, rectification of depressions, improvement of berms, and proper compaction of settled reaches. Any damaged pitching, toe protection, or spurs shall be repaired and brought to the original design profile. Special attention shall be given to previously vulnerable points identified during past flood seasons. The completion of these works in advance of the monsoon shall ensure structural stability of the bund, enhance its resilience against anticipated flood discharges, and minimize the risk of breaches, seepage, or overtopping during peak flood conditions.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 7

FLOOD FIGHTING WATCHING ARRANGEMENT.

7.1 PRE-FLOOD ARRANGEMENT.

To ensure effective flood fighting and safeguard the Chiniot Flood Bund along the River Chenab, the following pre-flood arrangements shall be undertaken well before the commencement of the monsoon season:

All instructions and directives issued by the Superintending Engineer and the Departmental Flood Committee shall be thoroughly reviewed and strictly complied with in letter and spirit. Necessary administrative approvals, technical preparations, and logistical arrangements shall be finalized in advance. The flood plan shall be updated where required, duty rosters shall be prepared and circulated, and the deployment strategy for staff during various flood stages shall be clearly defined to avoid any ambiguity during emergency situations.

A comprehensive pre-flood inspection of the entire reach of Chiniot Flood Bund shall be conducted to identify weak points, vulnerable sections, rain cuts, seepage-prone areas, and any structural deficiencies. Identified shortcomings shall be rectified immediately to ensure the bund remains in sound and intact condition before the flood season.

Coordination meetings shall also be convened with the concerned Army authorities after completion of the pre-flood inspection to ensure mutual preparedness in case of an emergency. Communication channels shall be established and contact persons nominated to facilitate rapid assistance, if required, during high or exceptionally high flood situations.

Through these proactive measures, the flood management setup shall remain fully prepared, ensuring timely response, effective coordination, and protection of life and property during the forthcoming flood season.

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RESERVE STOCK OF STONES (LAC CFT)

Location	Sanctioned Limit	Available Qty	Balance	Remarks
CFB, Spur RD. 28+750	1.50	1.09	0.41	Sufficient quantity of reserve stock of Stone i.e.2.19 lac cft (73%) is available against 3.00 lac cft.
CFB, Spur RD. 55+000	1.50	1.10	0.40	
Total:-	**3.00**	**2.19**	**0.81**	

7.2. MANPOWER REQUIREMENT FOR FLOOD SEASON (15TH JUNE – 15TH OCTOBER)

For the effective watching, monitoring, and maintenance of the Chiniot Flood Bund during the flood season, the total manpower requirement has been determined based on flood levels and operational shifts. The arrangements are designed to ensure round-the-

clock vigilance, immediate response to distress points, and proper maintenance of the embankment throughout the entire flood season. The manpower allocation will be as follows:

Structure Name	Length in (Miles)	Flood Limits							
		Normal Flood Season		Low Flood		Medium/ High Flood		Very High/ Exceptionally High	
		Beldar	Shift	Beldar	Shift	Beldar	Shift	Beldar	Shift
CHINIOT FLOOD BUND FROM RD 0+000 TO 88+500	17.70	1 Person / 2 Miles(1 Shift)		1 Person / Miles(1 Shift)		2 Person / Miles(2 Shift)		5 Person / Miles(3 Shift)	
		9	1	18	1	36	2	90	3
Total	**17.70**	**9**		**18**		**72**		**270**	

- 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)
- **Mate:** 1 No. for every Gang of 12 Beldars at all flood ranges.
- **Sub Engineer:** 01 No. for every 03 gangs at all flood ranges

7.2.2 WATCHING ESTABLISHMENT 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.

7.3. ESTABLISHED CAMPS DETAILS

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	CHINIOT FLOOD BUND FROM RD 0+000 TO 88+500	17.70	RD 0+000 to 20+000	1	0	1	2
			RD 27+000 to 56+000	1			
Total				2	0	1	2

SENSITIVE AND VULNERABLE REACHES OF CHINIOT FLOOD BUND.

The following reaches of the Chiniot Flood Bund have been identified as sensitive and potentially vulnerable during the flood season and require special attention:

1. RD 0+000 – 20+000 (20,000 ft):
   - This reach is considered critical due to its previous susceptibility to erosion and seepage.
   - A reserve stock of stone is available at the spur within this reach to facilitate immediate repair or strengthening, if required.
2. RD 27+000 – 56+000 (29,000 ft):
   - Vulnerable sections include RD 28+750, where 1.09 lac cft of stone is stocked, and the spur at RD 55+000, with 1.10 lac cft of stone stored near the sensitive sites.
   - These provisions ensure rapid response capability in case of erosion, sloughing, or other structural distress during high or exceptionally high flood conditions.

Both of these reaches shall be ensured to restored to their original design parameters prior to the flood season, including slope stabilization, berm repair, pitching, and compaction of settled areas. During the flood season, these sections will be strictly monitored through continuous patrolling, critical gauge readings, and deployment of additional field personnel as per the flood stage requirements.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

7.4. WATCHING MATERIAL.

For proper and continuous watching of the Chiniot Flood Bund during the flood season, each flood camp must be equipped with following essential flood fighting materials. These materials are required not only for immediate remedial actions in case of damage but also to support the personnel in conducting continuous patrolling, gauge monitoring, and rapid response at vulnerable points. The following requirement has been calculated based on the establishment deployed for watching the bund and the anticipated damages during the flood season and is as follow:

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

Sr. No.	Name of item	Unit	Total Required Qty	Available Qty	Balance Qty	Remarks
1	Shouldari / Tent	No	1	1	0	The short material will be purchased before flood season 2026.
2	Chairs	No	6	0	6	
3	Table	No	1	0	1	
4	Generator (2-3 KVA)	No.	1	1	0	
5	Pedestal Fans	No	1	0	1	
6	Charpois	No	2	0	2	
7	Symbolic Jackets	No	50	0	50	
8	Polyethene Sheet	Kg	100	0	100	
9	Bamboos (4" dia and 10ft long)	No	100	0	100	
10	Water Coller	No	1	0	1	
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	Walke 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	Kg	20	0	20	
21	Axes	No	20	0	20	
22	G.I Buckets	No	0	5	5	
23	7/44 Cables	Feet	500	0	500	
24	Sutli	Kg	2	0	2	
25	Sewing Needles	No	10	0	10	
26	Emergency Medical kits	No	1	0	1	
27	Wire crates (3x3x3) (at only those camp near river action and reserve stock exists)	No	100	0	100	

Minimum requirement of Flood Fighting Material for the Temporary Camp:

(7 or 5 miles during medium to exceptionally high flood to be outsourced)

Sr. No.	Items	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari/Tent 18x36	No	01	0	01	Outsourced
2	Walke Talkie Set	Sets	01	0	01	
3	Chairs	No	06	0	06	
4	Raincoats	No	10	0	10	
5	Table 4x3’	No	01	0	01	
6	LED flood light 500 watt	No	10	0	10	
7	Generator (2-5 KVA)	No	01	0	01	
8	Extension Cable (10 ft) 7/44	No	02	0	02	
9	Pedestal Fans 24”	No	01	0	01	
10	Rechargeable torches	No	20	0	20	
11	Charpois	No	02	0	02	
12	Kassi	No	20	0	20	
13	Symbolic Jackets	No	50	0	50	
14	Axes	No	20	0	20	
15	Water Cooler (30 Liter)	No	01	0	01	
16	G.I Buckets	No	05	0	05	
17	Portable umbrella	No	02	0	02	
18	7/44 cable	Feet	500	0	500	
19	Utensils (10 person serving)	No	01	0	01	
20	Sutli	Kg	02	0	02	
21	Jute 3. To 5 Cft Plastic bags 1.25 Cft	No	500	0	500	
22	Sewing Needles	No	10	0	10	

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

7.5. ARRANGEMENT FOR SOUNDING AND PROBING.

It relates to Head works and Barrages.

7.6. LIGHTING ARRANGEMENT.

01 No. mobile generator of (2-3 KVA) Horse power has been arranged for lighting arrangement.

7.7 RATION ARRANGEMENT.

Adequate and timely provision of food and drinking water for all personnel deployed at flood camps is critical for sustained operations. Pre-flood planning will ensure that each camp has sufficient stocks of daily meals, and high-energy provisions, aligned with shift schedules. Arrangements for replenishment during prolonged flood periods shall be in place to maintain continuous supply via outsource.

7.8. P.O.L ARRANGEMENT.

Sufficient fuel stocks for vehicles, pumps, and other machinery shall be pre-positioned via outsource to ensure uninterrupted mobility and operation. Periodic inventory checks and refueling schedules will be maintained to support round-the-clock patrolling, pumping, and emergency repairs.

7.9. TRANSPORTATION.

Reliable transport facilities, including boats, trucks, and emergency vehicles, shall be arranged vis outsource for rapid mobilization of personnel, material, and equipment to vulnerable reaches. Transportation plans will consider accessibility constraints, flood-affected routes, and alternate pathways to ensure timely response during high or exceptionally high flood stages.

7.10 LAW AND ORDER.

Coordination with local law enforcement agencies through Deputy Commissioner Chiniot, will be established to maintain security at flood camps, safeguard materials, and prevent unauthorized access to sensitive locations. Crowd management and protection of vulnerable sites will be prioritized to avoid any interference with flood fighting operations.

7.11 MEDICAL ARRANGEMENT FOR LABOUR .

First-aid facilities and medical support shall be provided by the Health Department. A dedicated medical team and ambulance services will be available to address injuries, heat stress, or water-borne illnesses among labor and staff. Essential medicines and emergency medical kits will be stocked at flood bund.

7.12 LIAISON WITH OTHER DEPARTMENTS.

Continuous coordination with allied departments including Army, Pakistan Railways, Revenue and District Disaster Management Authorities will be maintained. Pre-flood meetings, clear communication channels, and designated points of contact will ensure swift joint action in case of emergencies, enabling efficient resource sharing, technical support, and decision-making during flood events.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

7.13 ROLE OF ARMY.

Army may be engaged, if required, for execution of works related to the breaching section. However, it is pertinent to mention that the breaching section provided on the Chiniot Flood Bund has never been operated since its approval. Furthermore, based on recent flood events and field assessments, no irrigation infrastructure is presently under imminent threat that would warrant activation of the breaching section.

In view of the above, it is recommended that any decision regarding operation of the breaching section shall be taken by Pakistan Railways, as the structure no longer serves an operational requirement of the Irrigation Department. Accordingly, the concerned Controlling Officer of Pakistan Railways shall formally communicate, in writing, the decision for operation of the breaching section to the Army Engineers.

Moreover, in the event of operation, the routing and management of floodwater released through the breaching section up to the main creek of the river on the downstream side shall also be the responsibility of the engineers of Pakistan Railways.

7.14 DUTIES OF TELEPHONE ATTENDANT.

Executive Engineer Samundri Drainage Division Faisalabad will be responsible for overall implementation of flood fighting plan. The Divisional Office will remain open for 24 hours during flood days. The Head Clerk in the Divisional office will depute the clerical staff to attend the office telephone No. 041-9200470 round the clock during flood season. Duty roster of this Division is as under: -

Sr. No.	Name of Official	Duty Period		Time	
		From	To	From	To
1	Rashid Javed Tracer. Muhammad Rizwan Naib Qasid.	15.06.2026	15.07.2026	03:00 PM	10:00 PM
2	Hassan Raza Tracer. Muhammad Riaz Naib Qasid.	15.06.2026	15.07.2026	10:00 PM	09:00 AM
3	Muhammad Waseem Revenue Clerk. Muhammad Hashim Naib Qasid.	16.07.2026	15.08.2026	03:00 PM	10:00 PM
4	Muhammad Aqeel Junior Clerk. Muhammad Ehsan Naib Qasid.	16.07.2026	15.08.2026	10:00 PM	09:00 AM
5	Umar Nawaz Gill Sub Divisional Clerk. Muhammad Mudassar Naib Qasid.	16.08.2026	15.09.2026	03:00 PM	10:00 PM
6	Muhammad Naveed Sub Divisional Clerk. Muhammad Nabeel Naib Qasid.	16.08.2026	15.09.2026	10:00 PM	09:00 AM
7	Muhammad Nadeem Sub Divisional Clerk. Muhammad Qasim Dak Runner.	16.09.2026	15.10.2026	03:00 PM	10:00 PM
8	Attiqe-ul-Rahman Sub Divisional Clerk. Muhammad Nadeem.	16.09.2026	15.10.2026	10:00 PM	09:00 AM
9	PA To Xen M. Abdullah	15.06.2026	16.10.206	09.00 AM	03.00 PM

On Holidays					
1	Muhammad Ishaq Accounts Clerk. Zafar Iqbal Beldar	-	-	08:00 AM	03:00 PM

7.15 WIRELESS ARRANGEMENTS.

Mobile wireless set will be installed in vehicle of Executive Engineer, Samundri Drainage Division, Faisalabad for communication.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 8

DETAIL OF ENCROACHMENT.

No encroachment exists on Chiniot flood bund.

Sr. No.	Total encroachment	Removed	Remaining	Remarks
A). NORMAL				
1	NIL	NIL	NIL	NIL
B). CRITICAL				
2	NIL	NIL	NIL	NIL

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 9

DUTY ROSTER / FLOOD FIGHTING PROGRAM.

Reach	Discharge upto 2 Lacs				Discharge upto 4.00 Lacs.				Discharge upto 6.00 Lacs & above.			
	SDO	SEN	Mate	Beldars	SDO	SEN	1 No.Mate for 12 No. Beldars.	4 No Beldars per mile per shift for 2 Shift.	SDO	SEN	1 No.Mate for 12 No. Beldars.	8 No Beldars per Mile Per Shift for 2 Shift.
0+000-20+000 of Chiniot Flood Bund.	RD. 16+290 Chiniot Flood Bund.	Chiniot Drainage Section	1	16	RD. 16+290 Chiniot Flood Bund	As per 1st Stage	1	16	SDO Chiniot & 1 No. Additional SDO	2	5	60
20+000-40+000 of Chiniot Flood Bund.	-do-	Flood Bund Section-I 24+720	1	16	-do-	-do-	1	16	-do-	2	5	60
40+000-70+000 of Chiniot Flood Bund.	-do-	Flood Bund Section-II 55+000	2	24	-do-	-do-	2	24	-do-	2	8	90
70+000-88+500 of Chiniot Flood Bund.	-do-	Pindi Bhattian Drainage Section 88+500	2	15	-do-	-do-	2	15	-do-	2	5	56

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 10

EMERGENCY TELEPHONE NOS.

FAISALABAD IRRIGATION ZONE.
EMERGENCY TELEPHONE NUMBERS.

Sr. No.	Name of Officer with Designation & Official Address.	Residential Address.	TELEPHONE.		Remarks.
			Office.	Residence.	
1	Secretary, Irrigation Department Government of The Punjab Lahore.	Lahore.	042-99212117 042-99212118	042-35731116	
2	Rashid Khan Chief Engineer, Irrigation Zone, Faisalabad.	Bilal Road Faisalabad	041-9200268	0300-4242838	
		FAX	041-9200277		
3	Tahir Javed Superintending Engineer, Drainage Circle, Faisalabad.	Bilal Road Faisalabad	041-9200494	0301-7729050	
4	Rana Kashif Ali Executive Engineer, Samundri Drainage Division, Faisalabad.	Canal Colony Faisalabad	041-9200470	0334-4491174	
5	Tassawar Ayub, Executive Engineer, (OP) Faisalabad Drainage Division, Faisalabad.	Faisalabad.	041-9200270	0321-4166103	Flood Emergency officer.
6	Sajid Ali (Head Signaler) Canal Telegraph Office, Flood, Emergency Centre, Irrigation Department, Faisalabad.	Canal Colony Faisalabad.	041-9200774	0300-8931867	Flood Emergency Cell.
7	Muhammad Bin Khursheed Superintending Engineer, Lower Chenab Canal (East) Circle, Faisalabad.	Faisalabad.	041-9200273	0300-7323748	Muhammad Shahwala. Kalera Flood Bund & Khanki Head works.
8	Samar Iqbal Superintending Engineer, Lower Chenab Canal (West) Circle, Faisalabad.	Bilal Road Faisalabad.	041-9200272	0300-7291010	i. Thatta Mahla Bund Jhang ii) Flood Protection Bund Jhang.
9	M.Khuram Baloch Executive Engineer, Burala Division, Faisalabad.	Faisalabad	041-9200275	0341-7865741	Muhammad Shahwala and Kalera Flood Bund near Kamalia.
10	Haider Ali Executive Engineer, Hafizabad Division Faisalabad.	Faisalabad.	041-9200473	0309-9922786 0349-9050865	In and around Faisalabad City.

Sr. No.	Name of Officer with Designation & Official Address.	Residential Address.	TELEPHONE.		Remarks.
			Office.	Residence.	
11	Adeel Anjum Executive Engineer, Khanki H/Works Division, Wazirabad Gujranwala.	Canal Colony Khanki Barrage	055-6266327	0331-8484303	Khanki Barrage.
12	Naveed Ahmad Executive Engineer, Khairwala Drainage Division Faisalabad.	Faisalabad.		0333-4915939	Khairwala Drainage System.
13	Junaid Akbar Executive Engineer, Faisalabad Drainage Division, Faisalabad.	Canal Colony Faisalabad	041-9200471	0345-8639436	Faisalabad Drainage System.
14	Haider Ali Executive Engineer, Jhang Division, Jhang.	Canal Colony Jhang.	047-9200300	0309-9922786 0349-9050865	Thatta Mahla and Bund Jhang.
15	Fatima Mubeen Superintending Engineer, Q.B.Link Circle, Farooqabad.	Canal Colony Farooqabad, Sheikhupura.	056-3874046	0333-5385489	Circle Farooqabad Q.B. Link.
16	Adnan Yousaf Executive Engineer, Qadirabad Barrage Division, Qadirabad.	Canal Colony Qadirabad Barrage.	054-7550190	0300-1030530	Qadirabad Barrage colony District Hafizabad.
		FAX.	054-7550190		
17	Qasim Ali. Executive Engineer, Q.B.Link Division, Farooqabad.	Faisalabad..	056-3874045 056-3876430	0331-6353645	Q.B. Link Division.
18	Farrukh Tussef Butt Executive Engineer, Faisalabad Division LCC (W), Faisalabad.	Bilal road Faisalabad.	041-9200271	0333-6498054	In and around Faisalabad City.
19	Abdul Ghaffar Sub Divisional Officer, Chiniot Drainage Sub Division, Faisalabad.	8-Bilal road, Faisalabad.		0300-7685049	Chiniot Flood Bund.
20	Chief Engineer, D & F, Lahore.		042- 99233551	-	
21	Sultan Mehmood Director Flood / Secretary Punjab Flood Commission Lahore.		042- 99233552	0303-7713303	

CIVIL DEPARTMENT.

1	Deputy Commissioner Office, Faisalabad.	Faisalabad.	041- 9200205-6	041-9200208-9	District Faisalabad.
2	Deputy Commissioner Office, Jhang.	Jhang Saddar.	047-9200081	047-9200181 047-9200081	District Jhang.
3	Deputy Commissioner Office, Chiniot.	Chiniot.	047-9210111	047-9210111	District Chiniot.
4	Deputy Commissioner Office, Hafizabad.	Hafizabad.	0547-521784 0547-524085	054-7521784	District Hafizabad.

CHAPTER # 11

STANDARD OPERATING PROCEDURE OF BREACHING SECTION (S.O.P).

11.1 HISTORY OF BREACHING SECTION.

After the experience of 1973 flood, the necessity of providing breaching sections at various Head Works and flood protection bunds was seriously considered to check uncontrolled disastrous damages. For Chiniot bund, breaching site was proposed at RD. 2+500 to reduce the pressure on Chiniot Flood bund for its safety. Breach at this site would deliver the water back to the river downstream the Railway Bridge without causing any damage to Chiniot Town and other private & public properties.

The fixation of the level of the breaching section was examined by Irrigation Research Institute with the model studies based on river surveys and other data. The matter then remained under discussion with Technical Sub Committee and Technical Committee of the Flood Commission. Finally, the Flood Commission in its meeting on 17/06/1974 approved the breaching site at RD.2+500 and critical flood level as 600.00 at Gauge RD.5+000 of Chiniot flood bund.

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

The flood commission in its 55th meeting held on 17/06/1974 considered the proposal of breaching site and following controlling flood level at the specified gauge site was approved by the commission.

Name of River/Site	Proposed Breach Site	Critical Flood Level At which cut is to be made.	Status of River.
Chenab.	RD. 2+500 at C.F.B.	R.L. **600.00** RD. 5+000 C.F.B.	Rising.
Chiniot Flood Bund (C.F.B)			

DESIGN OF BREACHING SECTION.

Location	Length of Breach	No. of Cuts.	Length Of each Cut.	Inner cut Distance	Over hang On both end.	No of row Of holes In each Cut.	Distance Between Rows.	No. of Holes Per Row.	Distance Between Holes.	Depth of Holes.	Tin P.V.C Liners Size. 7' x 6'Dia 26 SWG.
Between RD. 2-3	200'.	2	100'	7'	60 ft. on one en and 67 ft. on the other end.	5	8'	9 No.	7'	12.00'	130 Nos.

Location	Length of Breaching.	Depth of Cut	No. of Cuts.	Soil Type	Compaction
Chiniot Flood Protection Bund. RD. 2+500.	200 ft	12 ft	2	Loamy Soil	Machine

The additional instructions are hereby notified in compliance to orders of the Federal flood Commission contained in the minutes of 55th Meeting.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

SAMUNDRI DRAINAGE DIVISION FAISALABAD

STATUS OF EXPLOSIVE / ACCESSORIES

Name of Division	Name / Nomenclature of Material / Accessories	Total Quantity Required	Quantity Available	Balance Quantity to be Required	Cost of Total Quantity Required	Name of Agency to whom Payment is to be Made	Amount Paid	Balance Amount to be Paid	Remarks
1	2	3	4	5	6	7	8	9	10
Samundri	PE-3A	3010 Kg	3010 Kg	-	-	Wah Nobel Pvt Ltd. Wah Cantt:	961519	-	Sufficient quantity of explosive material is available at Gujranwala Cantt.
	Wabocord	3700 Mtr	3700 Mtr	-	-	Wah Nobel Pvt Ltd. Wah Cantt:	133002	-	
	Safety Fuse No.11	300 Mtr	300 Mtr	-	-	Wah Nobel Pvt Ltd. Wah Cantt:	24885	-	
	Elec Det	20 No.	20 No.	-	-	Wah Nobel Pvt Ltd. Wah Cantt:	3482	-	
	Det Non Elec	42 No.	42 No.	-	-	Wah Nobel Pvt Ltd. Wah Cantt:	1173	-	
	Detonating Cord	2000 Mtr	2000 Mtr	-	-	Wah Nobel Pvt Ltd. Wah Cantt:	98520	-	
SUB TOTAL:							1222581	-	
Samundri	Sealing Compound	20 Kg	20 Kg	-	-	H.Q Engineers 30 Corps GRW	400	-	
	Liner 12lt	52 No.	52 No.			H.Q Engineers 30 Corps GRW	41080		
	Jute	50 Mtr	50 Mtr			H.Q Engineers 30 Corps GRW	1250		
	Liner 9lt	36 No.	36 No.			H.Q Engineers 30 Corps GRW	21240		
SUB TOTAL:							63970	-	
Freight & Escort Charges:							40000	-	
Samundri	Primer CE	1000 No.	1000 No.			H.Q Engineers 30 Corps GRW	923000		
G. TOTAL:							2249551	-	

Executive Engineer
Samundri Drainage Division
Faisalabad

i). The Executive Engineer, or Sub Divisional Officer who so ever is present at site will arrange to make the cut at the proposed site as soon as the Flood Level touches the approved critical level on the specified site along Chiniot Flood Bund i.e. RD. 5000 provided that the River is in rising position.

ii). The critical level is to be painted in red on the gauge constructed at RD. 5000 Chiniot Flood Bund Similarly a board will be fixed on the Bund site describing in red that the site will be breached as soon as the critical level of 600.00 at RD.5000 of Flood Bund is reached and River is in rising position.

iii). Deputy Commissioner as well as his representative will be informed in time about the intended relief cut for the timely evacuation of people from the area to be affected.

iv). Necessary arrangement of explosives, machinery and the manual labour on Bund will be kept available at site.

v). The Executive Engineer and higher Officers of the Department will have the discretion to make relief cuts anywhere if so, required for the safety of Chiniot City but in all cases Deputy Commissioner and his representatives are to be informed for the purpose of evacuation well in time.

vi). The XEN Highway will be present at site to make a cut in the main road (Chiniot Sargodha road).

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

QUANTITY AND VARIETY OF THE EXPLOSIVE REQUIRED FOR DETONATION.

No. of Cuts	Drilled Holes		Catridges		Explosive (Lbs)		Bonacord (Ft)	Detonator Instant No.	Detonator 25 MS. No.	Electrict Cable Double (Yds)
	5ft. X6" dia	7. ft. x 6" dia	3'-6" 5" dia	4' - 6" 5" dia	WABOX	WABONITE				
1	26	39	26	39	457.6	1118.00	1573	4	2	1000
2	52	78	52	78	915.2	2236.00	3146	8	4	2000

11.3 ARRANGEMENT OF EXPLOSIVES AND SECURITY OF EXPLOSIVE STORE.

Explosive material and its accessories required for the activation of breaching section at RD. 2+500 of Chiniot Flood Bund are stored at Gujranwala Cantt: under the supervision of Army.

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

Security staff along with detail of their training is under the possession of Pakistan Army Kharian Cantt:

11.5 DETAIL OF MECHANICAL MEANS AS A STAND BY ARRANGEMENTS IN CASE OF DETONATION FAILURE.

The explosive material along with other accessories will be brought at site by the Army authorities. The arrival of machinery for cut and explosive material will be ensured well before any emergent situation arises at site.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

11.6 DUTY ROSTER IN CASE OF CRITICAL SITUATION.

Sr. No	Points of Camps	Discharge upto 2 Lacs				Points of Camps.	Discharge upto 4.00 Lacs.				Points of Camps	Discharge upto 6.00 Lacs & above.			
		SDO	SEN	1 No Mate for 12 No. Beldar	Beldars		SDO	SEN	1 No. Mate for 12 No. Beldars.	2 No Beldars per mile per shift for 2 shift.		SDO	SEN	1 No. Mate for 12 No. Beldars.	5 No Beldars per mile per shift for 3 shift.
1	RD 3+000	SDO RD 3+000	Flood Bund-I 0 +000 To 45+000	3	36	3+000	1	SEN CFB-I 0+000 to 20+000	2	16	3+000	1	2 (0+000 to 28+000)	7	84
								SEN CHT 20+000 TO 45+000	2	25					
			Flood Bund-II 45+000 To 88+500	3	35	38+000	1	SEN CFB-II 45+000 to 65+000	1	16	38+000	1	2 (28+000 to 56+000)	7	84
								SEN P-B 65+000 TO 88+500	2	19	63+000	1	2 (56+000 to 88+500)	8	98

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

11.7 BREACHING COMMITTEE WITH THEIR ACTION PLAN.

The cut is made at the specified site as soon as the flood level touches the critical levels 600.00 at RD.5+000 Chiniot Flood Bund, provided that the River is in rising condition. Following Breaching Operation Committee will operate the Breaching section on the direction of Competent Authority Federal Flood Commission.

1.	**Deputy Commissioner /** Representative of respective District Administration.	**Convener.**
2.	**Executive Engineer,** Samundri Drainage Division, Faisalabad.	**Member.**
3.	**Executive /Divisional Engineer,** Pakistan Railway	**Member**
4.	**Executive Engineer,** C& W Department.	**Member.**
5.	**Lt. Colonol/** Representative of concerned Army Battalion.	**Member.**

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

GOVERNMENT OF THE PUNJAB
IRRIGATION DEPARTMENT

Dated Lahore, the 15th July, 2015

NOTIFICATION

NO.SO (FLOODS) VI-33/97. Subsequent to the approval of Competent Authority and Fedoral Flood Commission letter dated 28-2-2015 and in supersession of all previous instructions on the subject, following procedure is hereby prescribed for the operation of breaching sections in the Punjab:

(a) Responsibility for the maintenance and operation of each breaching section shall rest upon the department owning the structure at which the breaching section is located.

(b) Breaching section shall be operated on the orders of following committee :-

(i) District Coordination Officer of the district in which the breaching section is located, who shall also be the convener of the committee;

(ii) District Coordination Officer of the district likely to be effected by the operation of breaching section or his representative (in case the area affected falls outside the district in which the breaching section is located);

(iii) Representative of the department owning the structure at which the breaching section is located (not less than the rank of an Executive Engineer or equivalent);

(iv) Representative from C&W Department not below the rank of an Executive Engineer;

(v) Executive Engineer concerned of the Irrigation Department;

(vi) Representative from Pakistan Army not below the rank of a Lt. Colonol.

(c) The decision to operate a breaching section shall be taken by the committee keeping in view the technical advice of the Executive Engineer concerned of the Irrigation Department. In case of any difference of opinion among the members, the final decision shall rest with the District Coordination Officer.

(d) In case of unavailability of the District Coordination Officer or his inability to take decision, or in case of a difference of opinion between the District Coordination Officers of the District in which the breaching section is located and the district which is likely to be affected by the operation of the breaching section, the decision to operate a breaching section shall be taken by the respective Commissioner;

(e) Breaching section shall be operated when one or more of the following conditions are met :-

(i) The discharging capacity of the structure for which breaching section is located is exceeded and the safety of structure is threatened ;

(ii) The critical gauge as indicated in the relevant Flood Fighting Plan is achieved or exceeded and is rising;

(iii) The safety of major population center-(s) is threatened due to high flood levels and in view of the Executive Engineer concerned of the Irrigation Department, operation of breaching section can help in reduction of flood levels.

(f) Where, in view of the Executive Engineer concerned of the Irrigation Department or the representative of the department owning the structure at which the breaching section is located, the aforesaid criteria is expected to be met after due consideration of all available technical and hydrological conditions, the aforesaid committee may operate the breaching section before the critical guage is achieved or exceeded. In every such case, the view of the Executive Engineer concerned of Irrigation Department or the representative of the department owning the structure shall be expressed in writing and shall be based on flood forecast by Pakistan Meteorological Department or other reliable sources, the trend of discharges in the relevant river at upstream locations, the lag times, estimated attenuation and expected inflows from tributaries, nullahs and streams en-route. Where advance breaching is planned, the committee may also consult professional experts and seek advice from the Superintending Engineer or the Chief Engineer concerned of the Irrigation Department.

(g) Breaching section shall be operated by the contingent deputed by the Engineering-in-Chief, Pakistan Army as indicated in the Flood Fighting Plan. Explosive method shall be the preferred method for operation of breaching section. However, the department owning the structure on which the breaching section is located, and in case of their failure to do so, Irrigation Department shall make available, in advance, necessary earth moving machinery and

other equipment for affecting the breach through mechanical means in the shortest possible time.

(h) The District Coordination Officer concerned and all other relevant agencies shall ensure all necessary arrangements for the safety and if required evacuation of population likely to be effected by the operation of breaching section.

— Sd —

SECRETARY IRRIGATION

No, & Dato Even

A copy is forwarded for information and necessary action to :-

i) The Chief Secretary, Punjab, Lahore.
ii) The Federal Secretary Defence, Government of Pakistan, Islamabad.
iii) The Federal Secretary Water & Power, Government of Pakistan, Islamabad.
iv) The Federal Secretary Railways, Government of Pakistan Islamabad.
v) Col ® Shuja Khanzada, Minister for Home, Lahore.
vi) The Senior Member, Board of Revenue, Punjab, Lahore.
vii) The Secretary to Chief Minister, Punjab, Lahore.
viii) The Secretary, Government of the Punjab, C&W Department.
ix) The Director General, PDMA, Lahore.
x) The Chairman , Federal Flood Commission, Islamabad
xi) The Engineer-in-Chief, Pakistan Army, GHQ, Rawalpindi.
xii) All Chief Engineers of Irrigation Zones in Punjab.
xiii) All Divisional Commissioners in Punjab.
xiv) All District Coordination Officers in Punjab.
xv) The Project Manager, TPM, Lahore.

Asim 15-07-2015

SECTION OFFICER (FLOODS)

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

As a consequence of activation of breaching section, abadi of Kot Muhammad Yar and new developed portion of Chiniot Town are affected. The same has been earmarked at contingency plan. However, this area will be evacuated through Civil Administration well before the operation of breaching section.

FLOOD INUNDATION.

In low and medium flood ranges, the flood water meanders within the limit of River bed width. The name of villages which are likely to be inundated during low, medium, high flood are given as under:-

1. EFFECTED UNDER LOW FLOOD.

Sr #	Name of Village	Sr #	Name of Village	Sr #	Name of Village
1	Mooran Wala	2	Naseere Themary	3	Thatta Mochian
4	Babo Rai	5	Dhusri Qazian		

2. EFFECTED UNDER MEDIUM FLOOD.

Sr #	Name of Village	Sr #	Name of Village	Sr #	Name of Village
1	Mooran Wala	2	Naseere Themary	3	Thatta Mochian
4	Babo Rai	5	Dhusri Qazian	6	Shah Balol
7	Miana Kot	8	Moza Shadhan	9	Mirza Bhattian

3. EFFECTED UNDER HIGH FLOOD.

Sr #	Name of Village	Sr #	Name of Village	Sr #	Name of Village
1	Mooran Wala	2	Naseere Themary	3	Thatta Mochian
4	Babo Rai	5	Dhusri Qazian	6	Shah Balol
7	Miana Kot	8	Moza Shadhan	9	Mirza Bhattian
10	Thatta Daura Ghazi Nasir Kemari	11	Miana Kot	12	Chak Karim Shah Supra Rossan
13	Murad Wala.	14	Moza Chichar.	15	Moza Sadhan.
16	Patraki.	17	Moza Asian.	18	Sawanda Thatta.
19	Kala Asian.	20	Moza Pirda Kot.	21	Berahnkay.
22	Their Ke Barke.	23	Thatta Sarghans.	24	Jallokey.
25	Shah Balol.	26	Khana.	27	Kanda Bhattian.
28	Machonika.	29	Mal Da Burj	30	Jhanger.
31	Burjziada				

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

11.9 ANNOUNCEMENT AND DETAIL OF EVACUATION ARRANGEMENTS.

Evacuation of effectees is to be arranged through the Deputy Commissioner, Chiniot, Additional Deputy Commissioner (Revenue), Chiniot. Executive Engineer, Samundri Drainage Division, Faisalabad will keep inter-departmental co-ordination promptly. At the time of flood, the flood situation will be conveyed well in time to District Government and other Departments, District Management Chiniot/ Hafizabad will announce evacuation arrangements. Accordingly the populated areas will be evacuated.

11.10 DETAILS OF COORDINATION WITH CIVIL/ARMY AUTHORITIES.

Meetings will be arranged with Army authorities time to time during flood season and inspection will be carried out to watch any critical situation with Civil Administration.

11.11 PARALLEL COMMUNICATION ARRANGEMENTS.

During flood season wireless set is installed in vehicle of the Executive Engineer, In-charge.

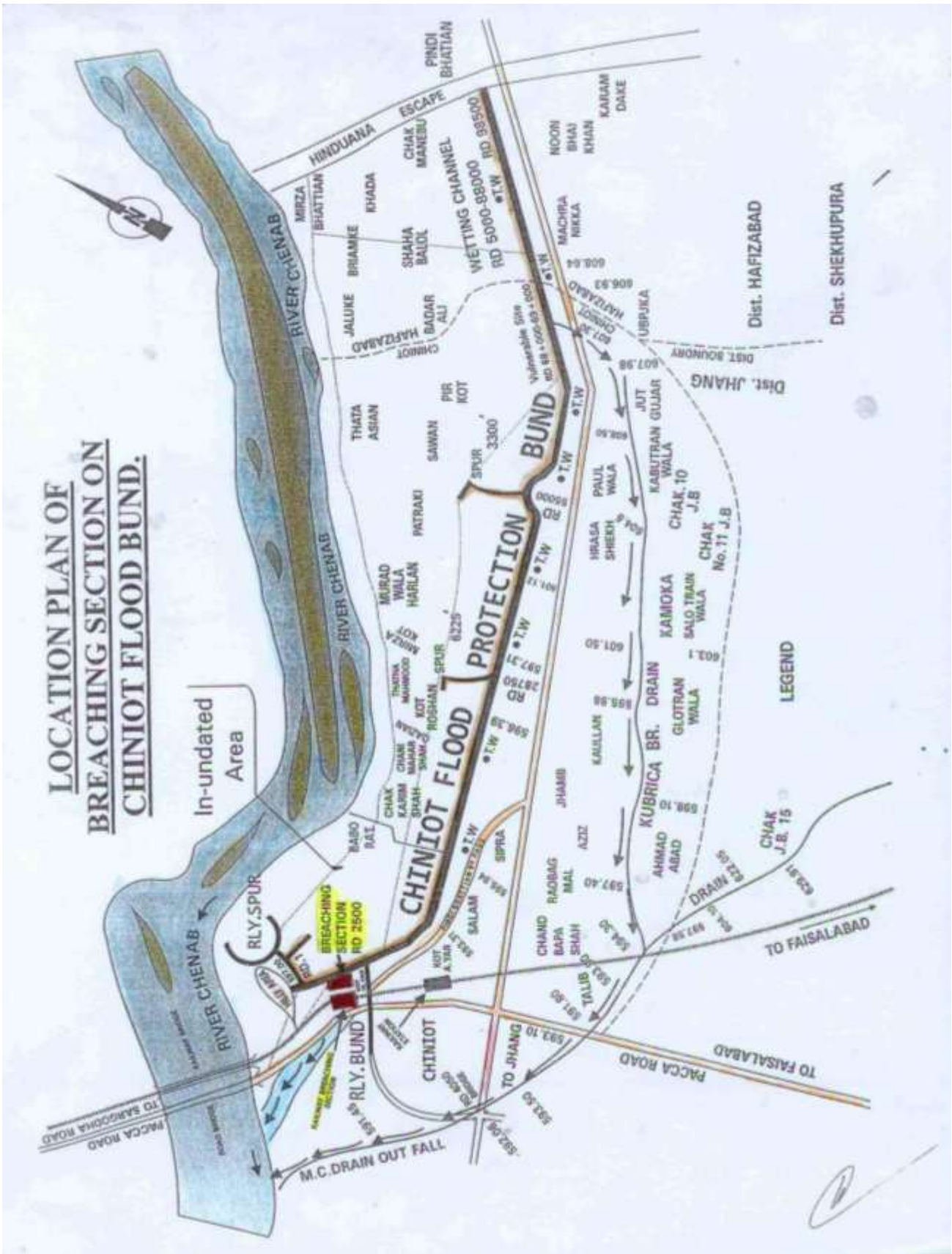
11.12 INDEX PLAN.

Attached Page No.35.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

Superintending Engineer,
Drainage Circle, Faisalabad.

Chief Engineer
Faisalabad Irrigation Zone,
Faisalabad.


LOCATION PLAN OF
BREACHING SECTION ON
CHINIOT FLOOD BUND.
In-undated Area
RIVER CHENAB
RIVER CHENAB
RIVER CHENAB
RLY.SPUR
BREACHING SECTION RD 2500
CHINIOT FLOOD PROTECTION BUND
RLY. BUND
CHINIOT
M.C.DRAIN OUT FALL
HINDUANA ESCAPE
WETTING CHANNEL RD 5000-88000
RD 99500
KUBRICA BR.
KAMOKA DRAIN
PACCA ROAD
TO FAISALABAD
TO JHANG
Dist. HAFIZABAD
Dist. SHEKHUPURA
Dist. JHANG
LEGEND

RESTD

Headquarters Engineers 1 Corps
Kharian Cantonment
Telephone Military - 32364
Case Number 60901/G-DWDP3M
13 April 2020

To: Office of The Executive Engineer Samundri Drainage Division, Faisalabad

Information: Headquarter 1 Corps – Internal Security Branch
Headquarters 6 Armoured Division - Internal Security Branch
314 Assault Engineer Battalion
Chief Engineer Irrigation - Faisalabad Zone

Subject: **Minutes of Post Flood Coordination Conference Held at Headquaets Engineers 1 Corps on 14 Nov 2019**

Your letter number 767/11-W date 29-01-2020 and 2015/11-W dated 06-02-2020 (pasted below) reference.

1. **Proposed design of 2 x breaching Sections of Chiniot Flood Protection Bund between RD 2 & 3** is forwarded as per **Annexure P** to this letter. Specifications are as under:-

   a. Each Breaching Section is of 64 ft length with a total of 44 Charge Liners, each of 6" dia PVC casing pipe (water proof) in 5 x rows.
   b. Each row comprising 9 holes (staggered for each row).
   c. 3 x Rows on bund top having charge liner depth of 12 ft.
   d. 2 x Rows on slopes with charge liner depth of 9 ft.
   e. Hole to hole dist in each row be maint as 7 ft center to center.
   f. Row to row dist be maint as 9 ft center to center.
   g. Necessary explosive as per modified design is already held with unit. Holes be prep at existing loc.

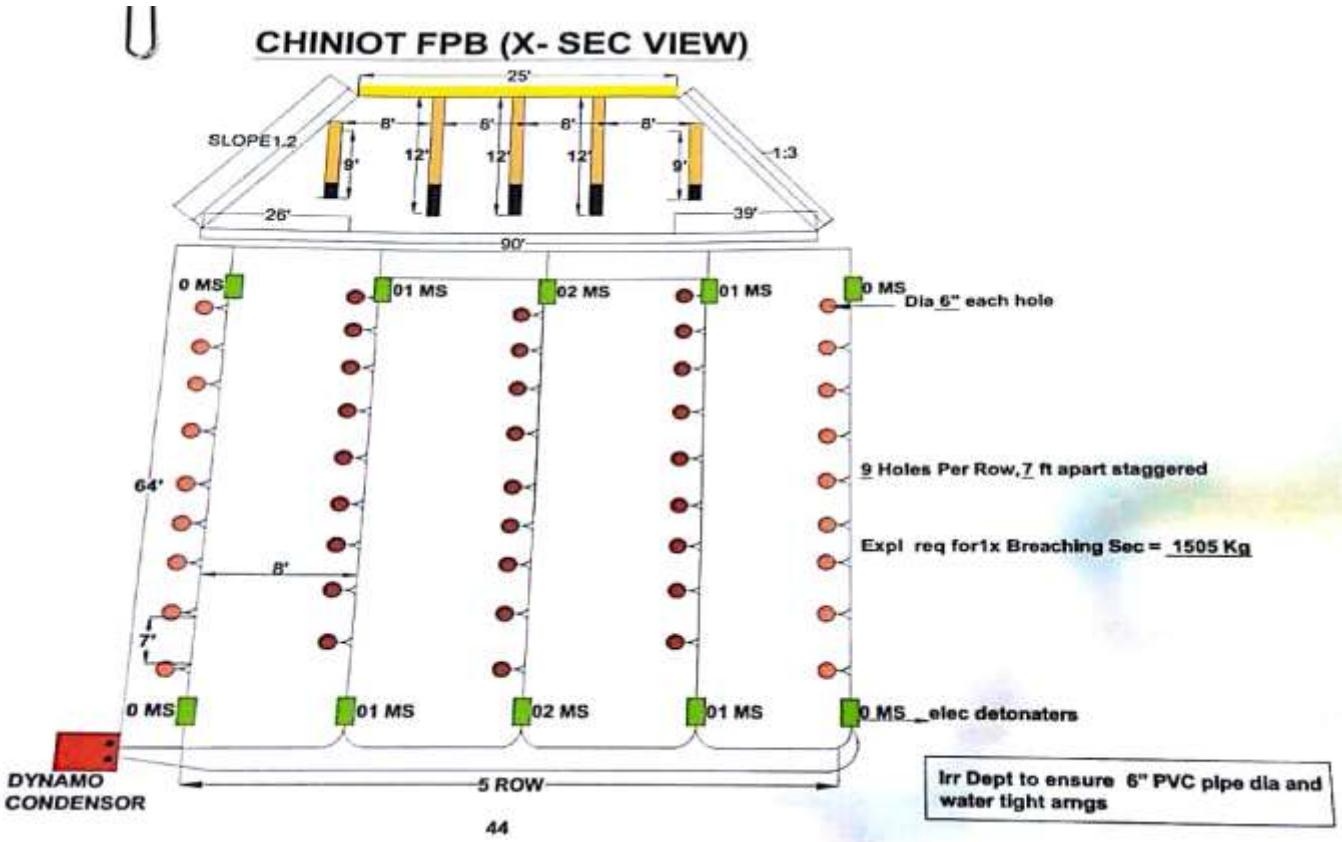
2. Fwd for info / approval, please.

Docu ID: DWDP3M APPROVED By GSO-2 (Int & Terrain) Maj Rana Muhammad Sohaib Hassan Khan on 13 Apr 2020
Note: Computer Generated Documents Do Not Require Signature

RESTD

OPERATIVE PLAN BREACHING SECTION
(CHINIOT FLOOD PROTECTION BUND)

LOCATION	LENGTH OF BREACH (FT.)	DEPTH OF CUT(FT.)	NO. OF BREACHING SITES	SOIL TYPE	COMPAC TION
Chiniot Flood Protection Bund RD 2+000 - 3+000	200’	12.0’	2	Loamy	Machine



Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 12

SITES ON FLOOD BUND / STRUCTURES

12.1 APPREHENDED BREACHES IN FLOOD BUND/STRUCTURES.

1). CHINIOT FLOOD BUND ALONG ITS ALLIED STRUCTURE.

The Chiniot flood bund has been constructed mainly for the protection of Chiniot town, main Highway Pindi Bhattian -Chiniot road, abadies, public / private properties and other infrastructures on the left side against the spill of river Chenab. The Chiniot flood bund RD. 0+000 to 10+000 is parallel to Chiniot town on north side. A spur at RD. 0+000 has been constructed by the Railway Department which is efficiently training the river towards Railway Bridge**.** The Vulnerable Sites located at RD 0+000 to 20+000 & RD 27+000 to 56+000.The river approach upstream the Railway spur is right-handed and there is no active creek on left side. Although 2 No. spurs at RD. 28+750 and at RD. 55+000 have been constructed by the Irrigation Department but there is no active creek in front of these 2 spurs. These spurs remained dormant since their construction during the year 1979-80. The beat of river Chenab in front of Chiniot flood bund is about 8 to 10 Km. Only river spill has been observed along the Chiniot flood bund during the previous floods. The level of this spill water is according to the magnitude of the flood. The following are the vulnerable sites

Site no.1: Chiniot Flood protection Bund RD 0+000 to 20+000

Site no.2: Chiniot Flood protection Bund RD 27+000 to 56+000

12.2 OPERATION OF BREACHING SECTION.

Breaching Section will be operated on the direction of Breaching Committee made under Para 11.7. (Lead by Divisional Engineer Pakistan Railway)

12.3 BREACHES DUE TO RISING OF FLOOD WATER, DETERIORATION OF FLOOD BUNDS ETC.

The cut is made at the specified site as soon as the flood level touches the critical levels i.e.600.00 at RD.5+000 Chiniot Flood Bund, provided that the River is in rising condition. The Breaching Operation Committee will operate the Breaching section on the direction of Breaching Committee mentioned above.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

CHAPTER # 13

EMERGENCY CONTINGENCY PLAN.

Site no.1 & 2

Chiniot Flood protection Bund RD 0+000 to 20+000 & RD 27+000 to 56+000.

13.1 Plan showing rout of flood water coming out of breach supported with level attached on Page-37.

13.2 Detail of villages abadies likely to be affected and this should also be shown on the plan, attached on Page-37.

1. Main Highway Pindi Bhattian - Chiniot.
2. Villages i.e. Harsa Sheikh, Salotrianwala, Jat Gujar Kabutanwala, Thatta Kamoka, Ghafoorabad, Kubrika, Daulawala, Kaullah, Jhamb , Thattha Aziz, Ahmbadbad, Chand Bore Shah, Kot Muhammad Yar, Chiniot, Chak No.10 J.B, Chak No.11 J.B.
3. Faisalabad - Chiniot Railway line.
4. Chiniot - Sahianwala road.
5. Chiniot - Faisalabad road.
6. Chiniot Main Town.
7. Chiniot - Jhang road.
8. Public / Private installation in the area, like schools, hospitals, canals, roads in addition to the damage to the houses and crops in the area of about 50, sq miles.

The above mentioned abadies and infrastructures have become under hit of the river before the construction of Chiniot flood bund. The expected situation in case of any accidental breach in Chiniot flood bund envisages that a colossal damages and catastrophe will have to be borne. Hence the protection of Chiniot flood bund is vital in case of any emergent situation.

To avert any eventuality on receipt of expected flood, the pre-arrangements for the protection and watching of Chiniot flood bund will be made well before with the help of Army and Civil authorities. Sufficient machinery, gunny bags, bamboos, stone, labour will be arranged well before the flood hit (Plan attached).

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Faisalabad.

13.3 STRATEGY AND ACTION TAKEN.

The Chiniot Flood Bund is being brought to the designed section with 5' ft free board. The Chiniot Flood Bund has been constructed with local earth which is loose and sandy. It has been observed that during rainy season, the bund is badly damaged in case of continued spell of rains. The condition of bund becomes deteriorated and the inspection of bund for the touring officers is badly hampered, which would be maintained through existing establishment.

1). The wetting channel is being brought operative well before the start of the flood season.
2). All obstructions are also being removed from the bed of wetting channel.
3). The un-necessary ramps made by local inhabitants would be removed at the start of flood season.
4). Pre-flood visits by the Irrigation officers, Civil and Army authorities will be ensured and complete Co-ordination and exchange of views by the inspecting authorities will be maintained.
5). The flood fighting and watching material are being made available according to the provisions made in the flood fighting plan, before the onset of Flood Season 2026.
6). Effective co-ordination between the Highway Department, Irrigation Department, Railway Department, Civil Administration, Army authorities and Police will be ensured in case of any emergent situation.
7). All the aforementioned departments will keep in touch with discharge information received from the Meteorological Department, flood warning centers, and gauges from up-stream barrages.

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Samundri Drainage Division,
Faisalabad.

13.3.1 ARRANGEMENTS.

The following arrangements will be made from 1st July every year:-

i) Operation room will be opened at RD.55+000 and will start functioning with effect from 1st July 2026. All wireless, telephone and other messages will be recorded and maintained in this emergency office. The duty charts of staff, plan of bund showing position liners, flood register and other arrangements for recording the data will be available and any information called for by any agency will be supplied from this centre promptly.

ii) Duty chart will be prepared and supplied to all staff.

KILLA BUSHING.

iii) Sub Divisional Officer will keep the sources/quantity of supply of killas and bushing arrangements to check any sudden parallel flow etc.

EMPLOYMENT OF WATCHING ESTABLISHMENT.

iv) Watching gang will be employed or further raised as per stages of flood.

13.3.2. ESTABLISHMENT OF FLOOD FIGHTING CAMPS.

Local establishment will be deployed during the flood.

Sr. No	Points of Camps	Discharge upto 2 Lacs				Points of Camps.	Discharge upto 4.00 Lacs.				Points of Camps	Discharge upto 6.00 Lacs & above.			
		SDO	SEN	1 No Mate for 12 No. Beldar	Beldars		SDO	SEN	1 No. Mate for 12 No. Beldars.	2 No Beldars per mile per shift for 2 shift.		SDO	SEN	1 No. Mate for 12 No. Beldars.	5 No Beldars per mile per shift for 3 shift.
1	RD 3+000	SDO RD 3+000	Flood Bund-I 0 +000 To 45+000	3	36	3+000	1	SEN CFB-I 0+000 to 20+000	2	16	3+000	1	2 (0+000 to 28+000)	7	84
								SEN CHT 20+000 TO 45+000	2	25					
			Flood Bund-II 45+000 To 88+100	3	35	38+000	1	SEN CFB-II 45+000 to 65+000	1	16	38+000	1	2 (28+000 to 56+000)	7	84
								SEN P-B 65+000 TO 88+500	2	19	63+000	1	2 (56+000 to 88+500)	8	98

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Samundri Drainage Division,
Faisalabad.

13.3.3 DUTIES OF OFFICERS/ OFFICIALS AND THEIR CAMP SITES.

(a). To Supervise, direct and control flood prevention measures and Flood Bunds protection activities, such as strengthening, maintenance, repair and construction of additional embankment.

(b). Operate gauge stations and provide information and data to authorities concerned for issuance of Alert and Danger warning messages.

(c). Coordinate, survey investigation of the extent of damage to Bunds, Embankment, Drains and Irrigation Tube wells.

(d). Assist and coordinate emergency repair of public services.

(e). Subsequently restore damaged public service.

(f). Supervise and coordinate actions to save stocks, equipment, machinery, etc, from damage.

Camp No.	Location	Officer Name + Designation + Mob. No.	Official Name + Designation + Mob. No.
1	RD 16+290 C.F.B	Mr. Abdul Ghaffar Sub Divisional Officer, Mob. 0300-7685049	Mr. Gulzar Ahmad Sub Engineer, (Section-I) Mob:0333-6630459
2	RD.24+720 C.F.B	--do--	--do--
3	RD.55+000 C.F.B	---do---	Mr. Muhammad Faheem Sub Engineer (Section-II) Mob:0321-7710717
4	RD.88+500 C.F.B	---do---	---do---

PRINCIPAL ACTIONS.

(a). Complete repair of the flood protection works in the pre-flood season.

(b). Inspection of breaching sections to check the positioning and condition of the liners to ensure that the liners are ready to receive the charge when required.

(c). Review operating instructions for breaching sections, revision of critical levels to control the breaching sections.

(d). Review the plan for regulation of water supply.

(e) Carry out final survey and inspection of flood protection works.

(f). Providing funds to the Army for replenishment of stores.

(g). Prepare for Chiniot flood protection bund, and inventory of equipment, material with locations. Camp side RD.16+299, 24+720, 55+000 & 88+000.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE.

No departmental machinery is available.

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be hired from Private Agency during flood season as per actual requirements.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED

13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

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:

Sr. No.	Name of item	Unit	Required Qty for each camp	Available Qty	Balance Qty	Remarks
1	Shouldari / Tent	No	1	1	0	The short material will be purchased before flood season 2026.
2	Chairs	No	6	0	6	
3	Table	No	1	0	1	
4	Generator (2-3 KVA)	No.	1	1	0	
5	Pedestal Fans	No	1	0	1	
6	Charpois	No	2	0	2	
7	Symbolic Jackets	No	50	0	50	
8	Polyethene Sheet	Kg	100	0	100	
9	Bamboos (4" dia and 10ft long)	No	100	0	100	
10	Water Coller	No	1	0	1	
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	Walke 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	Kg	20	0	20	
21	Axes	No	20	0	20	
22	G.I Buckets	No	5	5	0	
23	7/44 Cables	Feet	500	0	500	
24	Sutli	Kg	2	0	2	
25	Sewing Needles	No	10	0	10	
26	Emergency Medical kits	No	1	0	1	
27	Wire crates (3x3x3) (at only those camp near river action and reserve stock exists)	No	100	0	100	

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Faisalabad.

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRIC, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANALS & DRAINGE NETWORK.

INFRASTRUCTURES.

A	Petrol Pumps	=	10 No
B	C.N.G Station	=	7 No
•	Kubrika Drain and its system	=	Shown on map
•	Walaniwala Disty RD. 15+000 to tail.	=	Shown on map
•	Chiniot Disty and its structure between RD. 15+000 – 35+000.	=	Shown on map
•	Juniorwala Disty RD. 0+000 – tail and its system & Structure.		
•	Gas Pipe Line.		
C	Rice Mills/Factories	=	8 Nos.
D	Maqbool Gatta Factory	=	1 No.
E	Ahmed Straw Factory	=	1 No.
F	Ice Factories	=	4 Nos.
•	Area effected	=	3000 Acres

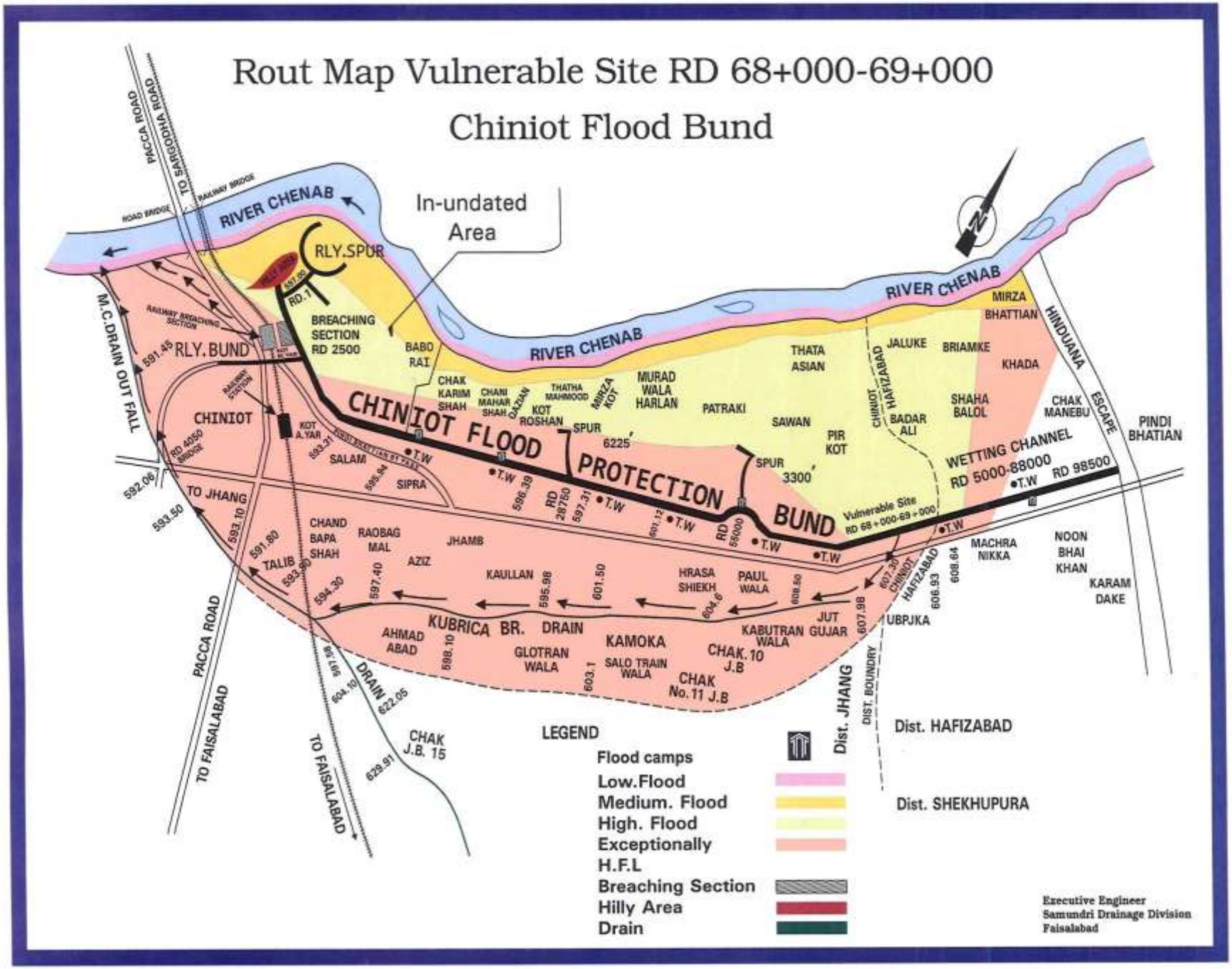
MOUZAS.

Sr #	Name of Village	Sr #	Name of Village	Sr #	Name of Village
1	Daluwala	2	Chak No.10J.B	3	Chak No.11 J.B.
4	Chak No.12 J.B.	5	Chak No.15 J.B.	6	Salotrianwala
7	Mouza Harsa Sheikh	8	Chak No.14 J.B	9	Chak No.15 J.B.
10	Mouza Ahmadabad	11	Thatta Glotran	12	Mouza Kot Sarwar
13	Mouza Jambla	14	Rao Bage	15	Luss Lawris
16	Mouza Rai Chand	17	Abadi Tahirabad	18	Sarounding Area of Chiniot City

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

Superintending Engineer,
Drainage Circle,
Faisalabad

Chief Engineer,
Faisalabad Irrigation Zone.
Faisalabad.


Rout Map Vulnerable Site RD 68+000-69+000
Chiniot Flood Bund
PACCA ROAD
TO SARGODHA ROAD
ROAD BRIDGE
RAILWAY BRIDGE
RIVER CHENAB
In-undated Area
RLY.SPUR
RD.1
BREACHING SECTION RD 2500
RAILWAY BREACHING SECTION
RLY. BUND
M.C.DRAIN OUT FALL
RD 4050 BRIDGE
CHINIOT
KOT A.YAR
BABO RAI
CHAK KARIM SHAH
CHANI MAHAR SHAH
JAZIAN
THATHA MAHMOOD
KOT ROSHAN
MIRZA KOT
MURAD WALA HARLAN
PATRAKI
THATA ASIAN
SAWAN
PIR KOT
CHINIOT HAFIZABAD
JALUKE
BRIAMKE
KHADA
MIRZA BHATTIAN
HINDUANA ESCAPE
SHAHA BALOL
BADAR ALI
CHAK MANEBU
PINDI BHATIAN
CHINIOT FLOOD PROTECTION BUND
SPUR 6225'
SPUR 3300'
WETTING CHANNEL RD 5000-88000
RD 98500
Vulnerable Site RD 68+000-69+000
SALAM
SIPRA
TO JHANG
CHAND BAPA SHAH
RAOBAG MAL
JHAMB
AZIZ
TALIB
KAULLAN
HRASA SHIEKH
PAUL WALA
MACHRA NIKKA
NOON BHAI KHAN
KARAM DAKE
UBPJKA
JUT GUJAR
KABUTRAN WALA
KUBRICA BR. DRAIN
AHMAD ABAD
GLOTRAN WALA
KAMOKA
SALO TRAIN WALA
CHAK.10 J.B
CHAK No.11 J.B
DRAIN
CHAK J.B. 15
TO FAISALABAD
DIST. BOUNDRY
Dist. JHANG
Dist. HAFIZABAD
Dist. SHEKHUPURA
LEGEND
Flood camps
Low.Flood
Medium. Flood
High. Flood
Exceptionally H.F.L
Breaching Section
Hilly Area
Drain
Executive Engineer
Samundri Drainage Division
Faisalabad

CHAPTER # 14

ACTION PLAN

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

Re-Shuffling/ Recouping of Reserve Stock of Stone will be carried out by local Machinery.

14.2 DETAIL OF INLET/ OUTLET CROSSING ALONG WITH CLOSING METHODOLOGY.

Sr. No.	Points	Reply
i)	Name of embankment.	Chiniot Flood Bund.
ii)	Location of crossing / outlet.	RD.68-69
iii)	Discharge capacity.	24 Cusec.
iv)	Methodology applied for crossing during flood.	Temporary closing of the pipe inlet during high flood.
v)	Details of crossing / outlet such B.D be the type of construction.	2 ft Dia R.C.C Pipe of Daluwala Try Drain.
vi)	Watching done during flood.	Watching will be done through Departmental Establishment during Flood Season.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

Deployment of Machinery (Normal to Low Flood)						
Sr. No.	**Structure Name**	**Length (Miles)**	**Excavators**	**Trolleys**	**Dumpers**	**Tractor with Front blade (1 per 15 mile reach)**
1	Chiniot Flood Bund Section-I&II	17.70	S.E shall allow deputation of one (1) excavator & four (4) Trolleys during low flood at camps/vulnerable points of Chiniot Flood Bund		-	1

Deployment of Machinery (Medium to High Flood)						
Sr. No.	**Structure Name**	**Length (Miles)**	**Excavators**	**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	Chiniot Flood Bund Section-I&II	17.70	3	10	5	3

Deployment of Machinery (Very High to Exceptionally High Flood)								
Sr. No.	Structure Name	Length (Miles)	Excavators		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	Chiniot Flood Bund Section-I&II	17.70	3	7	14	7	3	87

MACHINERY, CAMPS AND WATCHING ESTABLISHMENT REQUIREMENTS BY FLOOD LEVEL:

<table>
<tr><th></th><th>FLOOD LEVEL.</th><th>FLOOD CAMP</th><th>Excavator</th><th>Trolleys</th><th>Dumpers</th><th>Tractor with Front Blade</th><th>Beldars (Per Mile)</th><th>Mate</th></tr>
<tr><td rowspan="2">14.3</td><td>Normal</td><td rowspan="2">1 per 15 Mile reach</td><td colspan="2" rowspan="2">As per recommendation (ii)</td><td rowspan="2">-</td><td rowspan="2">1 per 15 Mile reach</td><td>1 Person/2 Mile (1 shift).</td><td rowspan="5">1 Mate per 12 Beldars</td></tr>
<tr><td>Low</td><td>1 Person/ Mile (1 shift).</td></tr>
<tr><td rowspan="2">14.4</td><td>Medium</td><td rowspan="2">1 per 7 Mile reach</td><td>1 per 7 Mile reach</td><td>4 per 7 Mile reach</td><td>2 per 7 Mile reach</td><td>1 per 7 Mile reach</td><td rowspan="2">2 Person/ Mile/Shift (2 shift).</td></tr>
<tr><td>High</td><td rowspan="2">1 per 5 Mile reach</td><td rowspan="2">4 per 5 Mile reach</td><td rowspan="2">2 per 5 Mile reach</td><td>1 per 5 Mile reach</td></tr>
<tr><td rowspan="2">14.5</td><td>Very High</td><td>1 per 5 Mile reach</td><td rowspan="2">5 person/ Mile/Shift (3 Shift)</td></tr>
<tr><td>Exp. High</td><td>2 per 5 Mile reach</td><td>2 per 5 Mile reach</td></tr>
</table>

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

14.6 POLICE DEPLOYMENT PLAN.

Sr. No.	Site breaching section	Concerned Canal Division	Concerned Police Station & District	Police Personal to be deployed				Remarks (if Any)
				Inspector	SI	ASI	Constables	
1	RD.2+500 of Chiniot Flood Bund **(Section-I)**	Samundri Drainage Division, Faisalabad	Police Station Sadar Chiniot, District Chiniot	-	1	1	10	

2-

Sr. No.	Vulnerable sites used for illegal cuts during floods	Concerned Canal Division	Concerned Police Station & District	Police Personal to be deployed				Remarks (if Any)
				Inspector	SI	ASI	Constables	
2	RD.68+000 to RD.69+000 of Chiniot Flood Bund **(Section-II)**	Samundri Drainage Division, Faisalabad	Police Station Sadar Chiniot, District Chiniot	-	1	1	10	

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Faisalabad.

14.7 DETAILS OF SYNTHETIC BAGS WITH CAPACITY OF 500 KG AND 100 KG.

SYNTHETIC BAGS WITH CAPACITY OF 500 KG and 100 KG

500 Kg		100 KG		Remarks
Required (bags)	Available (bags)	Required (bags)	Available (bags)	
125	Nil	100	Nil	Balance will be procured before flood season 2026

14.8 DETAILS OF POLYTHENE SHEETS OF BLACK COLOR TO PROTECT UPSTREAM SLOPE AGAINST WAVE ACTION AND TO CONTROL SEEPAGE THROUGH EMBANKMENTS.

POLYETHENE SHEET 300 GAUGE

Chiniot Flood Bund = 200,000 Sft.

Required (Sft)	Available (Sft)	Remarks
200,000	Nil	Balance will be procured before flood season 2026

Executive Engineer,
Samundri Drainage Division,
Faisalabad.

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

All the SOPS are Follows as per direction given by Administrative Department.

CHAPTER # 15

BACKUP DIVISIONS (IN CASE OF BREACH).

Faisalabad Drainage Division, Faisalabad & Faisalabad Division L.C.C. (W), Faisalabad are backup Divisions in case of breaching of Chiniot Flood Bund.

Executive Engineer,
Samundri Drainage Division,
Faisalabad.