**GOVERNMENT OF THE PUNJAB**

**IRRIGATION DEPARTMENT**



**FLOOD FIGHTING PLAN 2025**

**OF**

**Q.B.LINK DIVISION, FAROOQABAD**

**Q. B. LINK CIRCLE, FAROOQABAD**

**IRRIGATION ZONE FAISALABAD**

INDEX

FLOOD FIGHTING PLAN 2024

|  |  |
| --- | --- |
| **PART – A.** | Page No. |
| Chapter - 1 | Salient Feature of Q. B. Link Division, Farooqabad. | 1 |
|   | 1.1 | Location. | 1 |
|   | 1.2 | General Description. | 1 |
|   | 1.3 | Administrative setup. | 2 |
| Chapter - 2 | Flood Protection and River Training Works. | 3 |
|   | 2.1 | Design parameters of Training Works. | 3 |
|   | 2.2 | Location Map. | 3 |
| Chapter - 3 | Brief History of past flood events. | 4 |
| Chapter - 4 | Design data, Historic Peak Flood data and previous five years flood data of Head Works / Barrages and or other control points. | 5 |
|   | 4.1 | Flood Limits. | 5 |
|   | 4.2 | Time Lag of Floods. | 5 |
|   | 4.3 | Highest Floods. | 5 |
|   | 4.4 | Peak discharges. | 5 |
| Chapter - 5 | Flood Fighting Strategy. | 6 |
| Chapter - 6 | Flood Damages Restoration Works. | 7 |
| Chapter - 7 | Flood Fighting Watching Arrangement. | 8 |
|   | 7.1 | Pre – Flood Arrangement. | 8 |
|   | 7.2 | Watching Establishment. | 8 |
|   | 7.3 | Arrangement at Sensitive sites. | 9 |
|   | 7.4 | Watching Material. | 9 |
|   | 7.5 | Arrangement for Sounding & Probing. | 10 |
|   | 7.6 | Lighting Arrangements. | 10 |
|   | 7.7 | Ration Arrangements. | 10 |
|   | 7.8 | POL Arrangements for Vehicles. | 10 |
|   | 7.9 | Transportation. | 10 |
|   | 7.10 | Law and order. | 10 |
|   | 7.11 | Medical arrangements for Labor. | 10 |
|   | 7.12 | Liaison with other Department. | 10 |
|   | 7.13 | Role of the Army. | 12 |
|   | 7.14 | Duties of Telephone Attendants. | 12 |
|   | 7.15 | Wireless Arrangements. | 12 |
| Chapter - 8 | Detail of Encroachment. | 13 |
| Chapter - 9 | Duty Roster / Flood Fighting Program. | 14-15 |
| Chapter - 10 | Emergency Telephone Nos. | 17-18 |
| Chapter - 11 | Standard operating procedure (SOP) for Breaching Section. | 19 |
|   | 11.1 | History of the breaching section. | 19 |
|   | 11.2 | Location, Design, Quantity and Variety of the explosive required for detonation. | 19 |
|   | 11.3 | Arrangements of explosives and security of explosive stores. | 19 |
|   | 11.4 | List of security staff alongwith detail of their training etc. | 19 |
|   | 11.5 | Detail of Mechanical means as a standby arrangement in case of detonation failure. | 19 |
|   | 11.6 | Duty Roster in case of critical situation. | 19 |
|   | 11.7 | Breaching Committee with their action plan. | 19 |
|   | 11.8 | List of the villages likely to be inundated in case of breach. | 19 |
|   | 11.9 | Announcement and detail of evacuation arrangements. | 19 |
|   | 11.1 | Details of coordination with Civil/Army Authorities. | 19 |
|   | 11.11 | Parallel Communication arrangements. | 19 |
|   | 11.12 | Index Plan. | 20 |
| **PART – B.** |  |
| Chapter - 12 | Vulnerable sites on Flood Bund / Structures. | 22 |
|   | 12.1 | Apprehended breaches in Flood Bunds/Structures. | 22 |
|  | 12.2 | Operation of breaching section. | 22 |
|  | 12.3 | Breaches due to rise of flood water, deterioration of flood bunds. | 22 |
| Chapter - 13 | Emergency Contingency Plan for vulnerable site (s) listed above. | 23 |
|   | 13.1 | Plan showing route of flood water coming out of the breach supported with levels. | 23 |
|   | 13.2 | Detail of villages abadies likely to be affected and this should also be shown on the plan. | 23 |
|   | 13.3 | Strategy and action taken be explained in detail. This may include……… | 23 |
|  |  | 13.3.1 | Arrangements. | 23 |
|   |   | 13.3.2 | Establishment of Flood Fighting Camps. | 23 |
|   |   | 13.3.3 | Duties of Officer/Officials and camp sites. | 23 |
|   |   | 13.3.4 | Departmental Machinery available. | 23 |
|   |   | 13.3.5 | Machinery available from Private Source. | 23 |
|   |   | 13.3.6 | Flood Fighting Material required. | 24 |
|   |   | 13.3.7 | Flood Fighting Material available. | 24 |
|   | 13.4 | Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network. | 24 |
| Chapter - 14 | Action Plan | 25 |
|  | 14.1 | Reshuffling/Recouping Plan of Reserve Stone Departmentally. | 25 |
|  | `14.2 | Detail of inlet/outlet crossing along with closing methodology. | 25 |
|  | 14.3 | Deployment of machinery (Medium to high flood). | 25 |
|  | 14.4 | Deployment of machinery (High to very high flood). | 26 |
|  | 14.5 | Deployment of machinery (High to exceptionally high flood). | 26 |
|  | 14.6 | Police deployment plan. | 27 |
|  | 14.7 | Details of synthetic bags with capacity of 500kg and 1000kg. | 27 |
|  | 14.8 | Detail of polythene sheet of black color to protect upstream slope against wave action and to control seepage through embankments. | 27 |
| Chapter - 15 | Back up divisions (in case of breach). | 28 |

FLOOD FIGHTING PLAN– 2025

 PART – A

CHAPTER - I

SALIENT FEATURE OF Q.B. LINK DIVISION, FAROOQABAD

* 1. LOCATION

The subject area is located on right bank of River Ravi and is under the administrative control of Tehsil & District Nankana Sahib. The area is located about seven miles upstream of Balloki Headworks.

* 1. GENERAL DESCRIPTION

The QB Link is an unlined channel with a proposed capacity of 25000 Cusecs from the Head to LCC Feeder, and 20900 Cusecs below the Feeder to its Tail. The outfall structure is located at RD. 379265 and from downstream of this structure to confluence with River Ravi, the Link Canal is known as outfall channel. A Village Road Bridge cum aqueduct of Madhodas Minor has been constructed at RD.386255. This bridge connects the two portions of the Madhodas Flood Embankment, which is an extension of Right Marginal Bund of Balloki Head works. The outfall channel was originally excavated up to RD. 397415 which forms the Tail of the Link Canal system. Now it lies truncated at RD. 387735. Both Canal banks having length about 9680 feet were washed away due to erosive action of the River Ravi in exceptional high flood of 1988. Q. B. Link Canal Division Comprises of following two canals:-

1. Q.B. Link Canal
2. LCC Feeder

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

* 1. ADMINISTRATIVE SETUP

The administrative setup of Q. B. Link Division is as under:

Executive Engineer

Q. B. Link Division

Farooqabad

Sub Divisional Officer

Hafizabad Link Sub Division

Hafizabad

Sub Divisional Officer

Bhikhi Link Sub Division

Farooqabad

Sub Divisional Officer

Farooqabad Link Sub Division

Farooqabad

1. Bhikhi – I Section.
2. Bhikhi – II Section.
3. Bhikhi – III Section.
4. Bhikhi – IV Section.
5. Farooqabad – I Section.
6. Farooqabad – II Section.
7. Farooqabad – III Section.
8. Farooqabad – IV Section.
9. Mechanical Section.
10. Q. B. Link – I Section.
11. Q. B. Link – II Section.
12. LCC Feeder – I Section.
13. LCC Feeder – II Section.
14. Mechanical Section.

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

|  |  |
| --- | --- |
| **CHAPTER – 2** |  |
| **FLOOD PROTECTION AND RIVER TRAINING WORKS** |  |
| **2.1 DESIGN PARAMETERS OF TRAINING WORKS / FLOOD EMBANKMENTS** |  |
| Design flood discharge (1 in 50 years) = 3,50,000 Cs. |  |
| Design flood discharge at spur site (Q) = 3,50,000 Cs. |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Sr | Name of Bunds/Embankment | H.F.L | Total Length | Top width | Top R.L | Side Slope protec-ted | Side Slope unprotec-ted | Top level of apron | Avg. NSL | Remarks |
| 1 | J-Head Spur Tail of Q.B. Link Canal to protect outfall structure at River Ravi. | 649.00 | 5395 ftSay 1.02 Mile | 30 ft | 655.00 | 2:1 | 3:1 | 635.00  | 638.0 |  |
| 2 | 17 No. Spurs located at different sites from RD 340-386 to protect left side of Q.B. Link Canal from River Ravi. | - | 550 ft each spur | 20 ft | - | 2:1 | 2:1 | - | - | These fall in the shadow of Madhudas Flood bund hence not very active |

**2.2 LOCATION MAP**



|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 3**

**BRIEF HISTORY OF PAST FLOOD EVENTS**

The District Nankana Sahib experienced worst flood during the year 1959 before the construction of QB Link Canal. Due to overflow spills of Q.B. Link Canal and flood waters of the River Ravi devastated the adjoining areas in the past particularly during the year 1973 and 1976. In 1988, exceptionally high flood in the River Ravi threatened the life and property of inhabitants in the District Nankana Sahib, being a part of the District Sheikhupura at that time. The area received heavy Rainfall in 1997. As much as 283 mm of rainfall was recorded within 48 hours during the last week of August 1997. This created havoc in the entire District. The situation got worsened as the natural flood routs were disturbed because of newly constructed Motorway at that time. The interruption resulted in heading up of surface run – off causing inundation of vast area and effected human lives. Accumulative surface run – off found its way through the Link Canal which exceeded its carrying capacity due to deferred maintenance for last couple of years. The floodwater entered into the abadies of District Sheikhupura and District Nankana Sahib. Lahore to Jaranwala Road was damaged badly. In the year 2014, heavy flood was experienced in River Chenab D/S Qadirabad Barrage. This flood devastated the crops, roads and public property. The Government Department had to provide relief cuts at 10 different locations viz. RD350 – 351/L, 326 – 327/L, 320 – 321/L, 318+915/L, 302 – 303/L, 200 – 201/R, 149 – 150/R, 90+000 – 90+200/R, 89+700 – 79+950/R and 82 – 83/L to safeguard the public property. Day and night efforts were made to meet with the emergent situation. These relief cuts were closed after subsidence of flood water under Para 2.89 of PWD Code to bring back the Link Canal to normal flow regime. In Flood season 2023, River Ravi experienced low flood conditions that resulted in the damage of J Head spur situated at Tail of QB Link Canal. Launched apron is being restored to 20 feet width as per MIP and Departmental Expert’s guidelines. The rightward drift of the river damaged the earthen shank portion on 18.07.2023 which was taken care of through flood fighting and construction of 2 No. solid stone studs on an emergent basis as proposed by the team of experts.

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 4**

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

* 1. **Flood Limits**

Not Related

* 1. **Time Lags of Floods**

Not Related

* 1. **Highest Floods**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.# | Name of Bunds/Embankment | Designed top level of flood bund | Highest flood level recorded | Year | Remarks |
| 1 | J-Head Spur Tail of Q.B. Link Canal to protect outfall structure at River Ravi. | 655.00 | 649.00 | 1997 | - |
| 2 | 17 No. Spurs located at different sites from RD 340-386 to protect left side of Q.B. Link Canal from River Ravi. | 659.04 to 647.04 | Ditto | 1997 | - |

**4.4 Peak discharges**

Peak discharges relating to Balloki Headworks are as under:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Date** | **Discharge Cs.** | **Critical gauge at Balloki** | **Flood stage** |
| 1 | 29.09.1988 | 346162 | 637.00 | Very High Flood  |
| 2 | 31.08.1997 | 172450 | 635.00 | High Flood |
| 3 | 24.07.2003 | 64440 | 632.40 | Low Flood  |
| 4 | 20.08.2004 | 70045 | 634.50 | Low Flood  |
| 5 | 03.09.2006 | 67530 | 634.00 | Low Flood  |
| 6 | 01.07.2007 | 25700 | 634.50 | Low Flood  |
| 7 | 18.08.2008 | 68355 | 635.00 | Low Flood  |
| 8 | 01.07.2009 | 45500 | 630.15 | Low Flood  |
| 9 | 24.08.2010 | 58450 | 631.50 | Low Flood  |
| 10 | 11.08.2011 | 58315 | 631.50 | Low Flood  |
| 11 | 24.08.2012 | 60790 | 633.50 | Low Flood  |
| 12 | 16.08.2013 | 67580 | 634.00 | Low Flood  |
| 13 | 11.09.2014 | 131800 | 630.00 | High Flood |
| 14 | 20.07.2015 | 65960 | 632.00 | Low Flood |
| 15 | 10.09.2016 | 58315 | 631.50 | Low Flood  |
| 16 | 11.08.2017 | 69890 | 635.00 | Low Flood |
| 17 | 26.09.2018 | 67560 | 634.00 | Low Flood |
| 18 | 20.08.2019 | 53200 | 630.00 | Low Flood |
| 19 | 29.08.2020 | 63250 | 634.00 | Low Flood |
| 20 | 22.07.2021 | 59479 | 633.50 | Low Flood |
| 21 | 03.08.2022 | 52433 | 633.00 | Low Flood |
| 22 | 30.07.2023 | 58870 | 633.00 | Low Flood |
| 23 | 31.08.2024 | 53180 | 633.50 | Low Flood |

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 5**

**FLOOD FIGHTING STRATEGY**

**J-HEAD SPUR**

The J – Head spur has been constructed to protect out fall structure of Q.B. Link Canal. The Sub Divisional Officer Bhikhi Link Sub Division will be responsible for watch and safety of the spur. He along – with the Sub Engineer Section Bhikhi – IV will establish camp at Tail of Q.B. Link Canal and will keep close liaison with the Executive Engineer Q.B. Link Division as well as with the Civil Administration of District Nankana Sahib. He will deploy flood fighting material at site. During current flood season, he will ensure round the clock watching through regular establishment.

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 6**

**FLOOD DAMAGES RESTORATION WORKS**

No such works.

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 7**

**FLOOD FIGHTING / WATCHING ARRANGEMENT**

* 1. **PRE – FLOOD ARRANGEMENT**

A Flood Centre will be established in Divisional Office of Q.B. Link Division Farooqabad and responsible officials will be available round the clock. Their main duty would be to collect rain / flood data from base station established in canal Telegraph office and to record it in register maintained for this purpose. In case of any abnormal weather or worst rain forecast, officials will disseminate it to concerned Sub Divisional Officer and Sub Engineer through a written message.

**STATUS OF RESERVE STOCK OF STONE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Section** | **Location** | **Sanctioned Strength** | **Available Strength** |
| 1 | Bhikhi Section-IV | RD. 359-360Bank/L,RD. 371 to 374 Bank/LJ-Head Spur at Tail Q.B. Link | 0.887 Lac cft | 0.658 Lac cft |

**Flood Warning System for Heavy Rains / Floods**

No specific system is available in Nankana Sahib for dissemination of weather forecast. However the weather report published by the Meteorological Department from Flood Warning Centre Lahore would be sent to Deputy Commissioners of Districts likely to be affected. The information would then be communicated to all concerned from the Deputy Commissioner Office for making immediate and effective flood fighting and watching arrangements to cope with any emergency.

**Watching Arrangements**

During rainy / monsoon season, the field formation of Q.B. Link Division Farooqabad would remain vigilant throughout the monsoon season. Staff of the Division will be set on alert round the clock for the entire year during the flood season and flood watching camps will be established at vulnerable points.

* 1. **WATCHING ESTABLISHMENT**

Flood watching establishment is employed as per site and weather conditions from 15.06.2025 to 15.10.2025.

**J-HEAD SPUR**

RD. 386+500 to 390+000 3 No. watchmen per mile for day and night in 8 hours shifts.

**7.3 ARRANGEMENT AT SENSITIVE SITES**

To meet with any emergency on sensitive sites during flood season 2025, the following items/machinery will be arranged:-

1. Flood fighting material.
2. Machinery / Dozer.
3. Stone.

**7.4 Watching Material**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.No.** | **Details of watching material / articles** | **Quantity required** | **Quantity available** | **Balance** | **Remarks\*** |
| 1 | Kassies without handles | 40 No. | 10 | 30 | - |
| 2 | Baskets | 40 No. | 10 | 30 | - |
| 3 | Gunny bags | 300 No. | 50 | 250 | - |
| 4 | Torches 3 Cell | 5 No. | 0 | 5 | - |
| 5 | Lanterns | 8 No. | 4 | 4 | - |
| 6 | Wick for lantern | 3 Yards | - | 3 | - |
| 7 | Sutli | 1 Kg | - | 1 | - |
| 8 | Axes | 25 No. | 4 | 21 | - |
| 9 | Wooden mallets | 5 No. | - | 5 | - |
| 10 | Killas / Bamboos | 150 No. | 30 | 120 | - |
| 11 | Patromax lamps | 2 No. | - | 2 | - |
| 12 | Mantel for Patromax lamps | 2 Dozen | - | 2 | - |
| 13 | Spirit | 1 Liter | - | 1 | - |
| 14 | Kerosene Oil | 4 Tin | - | 4 | - |
| 15 | Chimney for Patromax Lamps |  4 No. | - | 4 | - |
| 16 | Handles for Kassies / axes (Extra) | 40 No. | 05 | 35 | - |
| 17 | Iron Charpaies | 8 No. | 2 | 6 | - |
| 18 | Steel Chair | 8 No. | 2 | 6 | - |
| 19 | Table | 4 No. | 1 | 3 | - |
| 20 | Shouldaries | 3 No. | 1 | 2 | - |
| 21 | Match boxes | 2 Dozen. | - | 2 | - |
| 22 | Plastic Chairs | 6 No. | - | 6 | - |
| 23 | Steel wire rope ½” | 200 feet | - | 200 | - |
| 24 | Clump | 50 No. | - | 50 | - |
| 25 | Wooden Saw | 2 No. | - | 2 | - |
| 26 | Tent for camp with complete assesories | 2 No. | - | 2 | - |

**\***Balance quantity will be procured before flood season based on availability of funds.

* 1. **Arrangement for Sounding & Probing**

In case of an emergent situation, sounding and probing arrangement will be made through regular establishment.

* 1. **Lighting Arrangement**

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

* 1. **Ration Arrangement**

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

* 1. **P.O.L Arrangement for Vehicle**

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

* 1. **Transportation**

Transportation facilities will be provided by the Civil Authorities.

* 1. **Law and order**

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

* 1. **Medical arrangement for Labor**

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

* 1. **Liaison with Other Department**

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

The flood embankments are inspected by a Committee constituted by the Secretary Irrigation Department in May every year. Fitness of bunds is ensured before the flood season; keeping in view the priorities are fixed according to resources. Following functions are to be performed within the jurisdiction:

1. Periodic review of structural integrity of flood infrastructure over Nullahs in order to ensure that no breach may occur in the event of heavy discharge of water. The Executive Engineer will share his observation with the Supervisory Officer as well as with the District Administration, well before Flood Season has set in, for necessary action to be taken accordingly.
2. Identification of vulnerable points on flood embankments (Bunds) where breach may occur, thus specifying the locations for positioning of requisite machinery / material near the vulnerable points.
3. Maintenance and repair of flood embankments well before commencement of Flood season.
4. Joint inspection of Flood protection infrastructures with District Administration.
5. Collection and sharing of information on discharge of water in Ravi as well as Nullahs, with the military authorities as well as District Administration on daily basis.
6. Collection of information on discharge of water, from monitoring check points on Nullahs as well as Control Centre at Jassar, Shahdara & Balloki.
7. Development of more effective early warning system.
8. Liaison with flood forecasting Centre Lahore, for collection of Flood related information.
9. Briefing to authorities concerned about Flood protection arrangements and development of an integrated departmental strategy, to be able to combat any situation during Floods.
10. Stockpiling of essential articles to combat any flood related contingency and arrangements of sufficient funds beforehand, for such purposes.
11. Arrangements of labor along with machinery /equipment for proper maintenance of the vulnerable points on flood protection arrangements.
12. Identification of points on road or otherwise, where breaches/ cuts are required to be made, to further facilitate discharge of water in order to avert larger catastrophe.
13. Ascertainment of extent of damage caused to the protection bunds and other installations, after flood water subsides.
14. Initiation of criminal proceeding against elements involved in will full breach in flood protection arrangement on any canal, with consent of competent authority.
15. Assistance and coordination in emergency repair of public service.
	1. **Role of the Army**

Not related

* 1. **Duties of Telephone Attendant**

The duties of telephone attendant is to apprise the Department / Civil Administration about the flood situation during the rain / flood season i.e., 15.06.2025 to 15.10.2025.

* 1. **Wireless Arrangements**

Wireless system / arrangement will be made for the vehicles under use of Officers of Q.B. Link, Division during the period of 15 June 2025 to 15 October 2025.

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 8**

**DETAIL OF ENCROACHMENT**

There is no encroachment on J – Head Spur at tail of Q.B. Link Canal in the jurisdiction of Q. B. Link, Division Farooqabad which may hinder the transportation in case of a flood emergency.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of Encroachment** | **No. of Encroachment** | **Removal** | **Balance** | **Action To Be Taken** |
| **Ordinary** | Nil | - | - | - |
| **Critical** | Nil | - | - | - |

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 9**

**DUTY ROSTER / FLOOD FIGHTING PROGRAM**

Staff of Q. B. Link Division Farooqabad is duty bound to look after the flood bunds and Canal. They have to be vigilant throughout the monsoon season and set on alert during day and night from 15 June 2025 to 15 October 2025. The flood watching camps are established with the onset of monsoon season at vulnerable points with adequate materials and arrangements to cope with any flood / rain emergency. The concerned Sub Divisional Officers are responsible for reporting about any mishap to the Executive Engineer, Superintending Engineer, Chief Engineer and Secretary Irrigation. It is also the duty of Sub Divisional Officer to deliver written messages well in time, to the District Administration concerned about the flood weather forecast, flood situation and any other mishap.

**Hafizabad Link Sub Division.**

1. Sub Divisional Officer. (Lahore – Gujranwala metaled Road

 Crossing Q.B. Link Canal)

2. Sub Engineer QBL – I HFD -do-

3. Sub Engineer QBL – II HFD -do-

**Farooqabad Link Sub Division**

1. Sub Divisional Officer. 1. Lahore – Sargodha metaled Road

 Crossing Q.B.Link Canal)

 2. (Sheikhupura – Hafizabad metaled Road

 Crossing Q.B. Link Canal)

2. Sub Engineer FQD – I -do-

3. Sub Engineer FQD – II -do-

4. Sub Engineer FQD – III -do-

5. Sub Engineer FQD – IV -do-

1. Sub Engineer QBL – I HFD -do-
2. Sub Engineer QBL – II HFD -do-

**Bhikhi Link Sub Division**

1. Sub Divisional Officer. 1. Lahore – Faisalabad metaled Road

 CrossingQ.B.Link Canal)

 2. (Lahore – Jaranwalametaled Road

 Crossing Q.B. LinkCanal)

2. Sub Engineer BKI – I -do-

3. Sub Engineer BKI – II -do-

4. Sub Engineer BKI – III -do-

5. Sub Engineer BKI – IV J-Head Spur

Additional work charge labor will be employed as and when necessary according to requirement. The camp sites are shown on the index plan. Sub Engineer BKI – IV Section will assist the Sub Divisional Officer Bhikhi Link Sub Division on J – Head Spur.

An additional strength of nearly 300 voluntary labor is required to be made available by Assistant Commissioner Sheikhupura in case of emergency on J – Head Spur. These labors will be arranged from local area. One Assistant Sub Inspector of Police with four Constables is required to be made available for arranging voluntary labors on above mentioned sites and to assist in watching operation as and when required.

Sub Divisional Officer Farooqabad Link Sub Division and Sub Divisional Officer Bhikhi Link Sub Division will maintain close liaison with Civil Administration Sheikhupura and keep them informed about the rain / flood position on J-Head Spur and Q.B. Link Canal for voluntary labor as and when required. They will also make arrangements for the stores required at campsites.

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

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

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

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

The Sub Divisional Officer Bhikhi Link Sub Division is located at Farooqabad and is in-charge of J – Head Spur for protection of village inhabitation and other important installations.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.#** | **Designation** | **Responsible for** | **Site of Camp during Flood Season** |
| 1 | Sub Engineer Bki-IV | Sub Divisional Officer Bhikhi Link Sub Division | Jamal Pur Rest House |

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 10**

**EMERGENCY TELEPHONE NOs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.#** |  | **Office No.** | **Residence No.** | **Cell No.** |
| 1 | Additional Chief Secretary Irrigation Department Lahore | 042-99212117-18 | 042-99200954 |   |
| Fax: 042-99212116 |
| 2 | Chief Engineer Irrigation Faisalabad. | 041-9200268 | 041-9220269 | 0333-6941690 |
| 041-9200277 |
| 3 | Executive Engineer (OP), Faisalabad Irrigation, Faisalabad. | 041-9200270 | 041-9201140 | 0345-8639436 |
| 4 | Canal Telegraph Office, Flood Emergency Center Irrigation Department Faisalabad | 041-9200774 |   |   |
| 5 | Superintending Engineer, Q.B. Link Circle Farooqabad. | 056-3874046 | 056-3876222 | 0307-98377510331-6952040 |
| Fax:056-3876430 |
| 6 | Executive Engineer Q.B. Link Division Farooqabad | 056-3874045 | 056-3863045 | 0331-6353645 |
| 7 | Canal Telegraph Office Q.B. Link, Division. | 056-3874046 |   | 0305-4023203  |
| 8 | Executive Engineer Qadirabad Barrage. | 0547-550190 | 0547-550198 | 0300-1030530 |
| Fax:0547-550198 |
| 9 | Executive Engineer Marala Barrage Division Marala | 0523-502102 | 0523-502102 | 0346-4132454 |
| 10 | Telegraph Office, Marala | 0523-502102 |   |   |
| 11 | Executive Engineer, Khanki Headworks Division, Khanki | 0556-605255 | 0556-266239 | 0334-9565827 |
| 0556-266239 |
| 12 | Sub Divisional Officer Hafizabad Link Sub Division. | 056-3874045  |   | 0307-7733018 |
| 13 | Sub Divisional Officer Farooqabad Link Sub Division. |  056-3874045 |   | 0345-6830064 |
| 14 | Sub Divisional Officer Bhikhi Link Sub Division. |   |   | 0300-4165719 |
| 15 | District Coordination Officer Sheikhupura | 056-9200150-51 | 056-9200152 |   |
| 056-9200153 |
| 16 | District Police Officer Sheikhupura. | 056-9200101& 104 | 056-92001105 |   |
| 17 | Executive District Officer Sheikhupura | 056-9200161 |   |   |
| 18 | Deputy District Officer Sheikhupura | 056-9200165 |   |   |
| 19 | District Coordination Officer Nankana | 056-2877118056-2877124  |   |  |
| 20 | District Police Officer District Nankana | 056-2877101  |   |  |
| 21 | District Headquarters Hospital Nankana | 056-2875110  |   |  |
| 22 | Medical Superintendent, District Hospital Nankana | 056-2875110  |   |  |
| 23 | District Head Quarter Emergency Nankana | 056-2876110 |  |  |
| 24 | Executive Engineer Highway Division Sheikhupura | 056-9200058 |   |   |
| 25 | Executive Engineer Building Sheikhupura | 0569200061-62 |   |   |
| 26 | Director Flood, D&F Punjab Lahore. | 042-99231614 |  |  |
| 27 | Flood Warning Centre Lahore | 042-7572091-4 |   |   |
| 28 | Flood Warning Centre of Irrigation Sheikhupura. | 056-9200252 | 056-9200253 |   |
| 29 | Chief Engineer Drainage & Flood Zone Lahore | 042-99203073 |  |  |

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 11**

**STANDARD OPERATING PROCEDURE (SOP) FOR BREACHING SECTIONS**

**11.1 History of the breaching section.**

 There is no approved breaching section in the jurisdiction of Q.B. Link Division Farooqabad.

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

 Not Related.

* 1. **Arrangement of explosives and security of explosive stores.**

 Not Related.

* 1. **List of security staff along with detail of their training etc.**

 Not Related.

* 1. **Detail of Mechanical means as standby arrangement in case of detonation failure.**

 Not Related.

* 1. **Duty Roster in case of critical situation.**

 Not Related.

* 1. **Breaching Committee with their action plan**

 Not related.

* 1. **List of the villages likely to be inundated in case of breach.**

 Not related.

* 1. **Announcement and detail of evacuation arrangements**

 Not related.

**11.10 Details of coordination with Civil/Army Authorities**

 Not related

**11.11** **Parallel Communication arrangements.**

 Not related.

|  |  |
| --- | --- |
| Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad | Superintending EngineerQ.B. Link, CircleFarooqabad |
| Chief EngineerIrrigation Faisalabad ZoneFaisalabad |

* 1. **Index Plan**

Index Plan of the Q.B. Link, Canal Division Farooqabad is attached herewith:



FLOOD FIGHTING PLAN– 2025

 PART – B

**CHAPTER – 12**

**VULNERABLE SITES ON FLOOD BUND / STRUCTURES**

* 1. **Apprehended breaches in Flood Bunds / Structures**

As such no vulnerable sites exist on J-Head spur in Q.B. Link Division Farooqabad.

* 1. **Operation of breaching section**

Not related.

**12.3 Breaching due to rise of flood water, deterioration of flood bunds**

Not related.

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER – 13**

**EMERGENCY CONTINGENCY PLAN FOR VULNERABLE SITE (S) LISTED ABOVE.**

**EMERGENCY CONTINGENCY PLAN MUST INCLUDE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.#** | **Name of Sub Division** | **Designation** | **Site of Camp during Flood Season** | **Cell No.** |
| 1 | Bhikhi Link Sub Division | SDO | Jamalpur (Lahore –Jaranwala metaled Road Crossing ) | 0300-4165719 |

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

Nil

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

Nil

* 1. **Strategy and action taken be explained in detail. This may include.**

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

* + 1. **Arrangements**

Strategy and arrangement during the emergency including flood bypass arrangements if any damaged will occur has been repaired after flood.

**13.3.2 Establishment of Flood Fighting Camps**

There is 1 number Camp site at Jamalpur RD. 358 of Q. B. Link Canal.

**13.3.3 Duties of Officers/Officials and their camp sites.**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Camp Location** | **Duty of official Name, Designation & Contact** |
| 1 | Jamal Pur RD 358 of QB Link | SDO BKI Link Sub Division, Munir Akhtar (0300-4165719) |

**SECTOR – 1**

Sub Divisional Officer Bhikhi Link Sub Division alongwith 4 No. Sub Engineers will be the in-charge of watching operation at J – Head Spur. He will camp at Jamalpur inspection hut, RD. 358 of Q.B. Link Canal.

**13.3.4 Departmental Machinery available**

Not available.

**13.3.5 Machinery available from Private Source.**

Machinery will be arranged if required from private source.

**13.3.6 Flood Fighting Material required**

**13.3.7 Flood Fighting Material available**

Detail of flood fighting material available in BKI section IV is already presented in heading 7.4 of Chapter 7 and same is reproduced here:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.No.** | **Details of watching material / articles** | **Quantity required** | **Quantity available** | **Balance** | **Remarks** |
| 1 | Kassies without handles | 40 No. | 20 | 20 | - |
| 2 | Baskets | 40 No. | 20 | 20 | - |
| 3 | Gunny bags | 300 No. | 100 | 200 | - |
| 4 | Torches 3 Cell | 5 No. | 2 | 3 | - |
| 5 | Lanterns | 8 No. | 4 | 4 | - |
| 6 | Wick for lantern | 3 Yards | - | 3 | - |
| 7 | Sutli | 1 Kg | - | 1 | - |
| 8 | Axes | 25 No. | 4 | 21 | - |
| 9 | Wooden mallets | 5 No. | - | 5 | - |
| 10 | Killas / Bamboos | 150 No. | 50 | 100 | - |
| 11 | Patromax lamps | 2 No. | - | 2 | - |
| 12 | Mantel for Patromax lamps | 2 Dozen | - | 2 | - |
| 13 | Spirit | 1 Liter | - | 1 | - |
| 14 | Kerosene Oil | 4 Tin | - | 4 | - |
| 15 | Chimney for Patromax Lamps |  4 No. | - | 4 | - |
| 16 | Handles for Kassies / axes (Extra) | 40 No. | 20 | 20 | - |
| 17 | Iron Charpaies | 8 No. | 2 | 6 | - |
| 18 | Steel Chair | 8 No. | 2 | 6 | - |
| 19 | Table | 4 No. | 1 | 3 | - |
| 20 | Shouldaries | 3 No. | 1 | 2 | - |
| 21 | Match boxes | 2 Dozen. | - | 2 | - |
| 22 | Plastic Chairs | 6 No. | - | 6 | - |
| 23 | Steel wire rope ½” | 200 feet | - | 200 | - |
| 24 | Clump | 50 No. | - | 50 | - |
| 25 | Wooden Saw | 2 No. | - | 2 | - |

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

 Nil on J-Head spur.

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**CHAPTER-14**

* 1. **RESHUFFLING / RECOUPING PLAN OF RESERVE STOCK OF STONE DEPARTMENTALLY**

 Reshuffling of stone will be done through government contractor. Whereas the recouping of reserve stock of stone will be done at suitable time.

|  |
| --- |
| **14.2 Information About Inlet / Outlet Crossing along with closing Methodology** |
|  |  |  |  |  |  |  |
| **Sr. No.** | **Name of Embankment**  | **Location of Crossing /outlet**  | **Discharge capacity(Cs)** | **Methodology applied for crossing during flood**  | **Detail of crossing /outlet such B.C be the type of construction** | **Watching done during Flood**  |
| No Inlet / Outlet Crossing of J – Head Spur. |

|  |
| --- |
| **14.3 ACTION PLAN DURING FLOOD 2025 ON RIVER RAVI** |
| **MEDIUM TO HIGH STAGE IN FAISALABAD ZONE** |
| **INFORMATION REGARDING DEPLOYMENT OF MACHINERY AT FLOOD EMBANKMENTS / BARRAGE DURING FLOODS 2024.** |
| **Sr. No.** | **Name of Structure** | **Length(In Mile)** | **Vulnerable Reach** | **Camp Location** | **Site Incharge by Name & Cell No.** | **Machinery and Labor to be deployed**  | **Availability of Stone (Lac Cft)** |
| **Excavator(No)** | **Dozer(No)** | **Front Blade Tractors(No)** | **Dump Trucks(No)** | **Tractor Trolleys(No)** | **Labor(Beldar + Mate)** |
| 1 | J-HEAD SPUR TAIL OF Q.B LINK CANAL | ONE MILE | RD 3-5 | JAMAL PUR | Muhammad Munir Akhtar0300-4165719 | \_ | \_ | \_ | \_ | \_ | 1 | 0.65 |
|  |  |  |  |  | **Total:-** | \_ | \_ | \_ | \_ | \_ | 1 | **0.65** |
| **14.4 ACTION PLAN DURING FLOOD 2025 ON RIVER RAVI** |
| **HIGH TO VERY HIGH STAGE**  |
| **INFORMATION REGARDING DEPLOYMENT OF MACHINERY AT FLOOD EMBANKMENTS / BARRAGE DURING FLOODS 2022.** |
| **Sr. No.** | **Name of Structure** | **Length(In Mile)** | **Vulnerable Reach** | **Camp Location** | **Site Incharge by Name & Cell No.** | **Machinery and Labor to be deployed**  | **Availability of Stone (Lac Cft)** |
| **Excavator(No)** | **Dozer(No)** | **Front Blade Tractors(No)** | **Dump Trucks(No)** | **Tractor Trolleys(No)** | **Labor(Beldar + Mate)** |
| 1 | J-HEAD SPUR TAIL OF QB LINK CANAL | ONE MILE | RD 3-5 | JAMAL PUR | Muhammad Munir Akhtar0300-4165719 | \_ | \_ | \_ | \_ | \_ | 1 | 0.65  |
|  |  |  |  |  | **Total:-** | \_ | \_ | \_ | \_ | \_ | **1** | **0.65** |

|  |
| --- |
| **14.5 ACTION PLAN DURING FLOOD 2025 ON RIVER RAVI** |
| **VERY HIGH TO EXCEPTIONALLY HIGH STAGE** |
| **INFORMATION REGARDING DEPLOYMENT OF MACHINERY AT FLOOD EMBANKMENTS / BARRAGE DURING FLOODS 2024.** |
| **Sr. No.** | **Name of Structure** | **Length(In Mile)** | **Vulnerable Reach** | **Camp Location** | **Site Incharge by Name & Cell No.** | **Machinery and Labor to be deployed**  | **Availability of Stone (Lac Cft)** |
| **Excavator(No)** | **Dozer(No)** | **Front Blade Tractors(No)** | **Dump Trucks(No)** | **Tractor Trolleys(No)** | **Labor(Beldar + Mate)** |
| 1 | J-HEAD SPUR TAIL OF Q.B LINK CANAL | ONE MILE | RD 3-5 | JAMAL PUR | Muhammad Munir Akhtar0300-4165719 | \_ | \_ | \_ | \_ | \_ | 2 | 0.65 |
|  |  |  |  |  | **Total:-** | **\_** | \_ | \_ | \_ | \_ | 2 | 0.65 |

|  |
| --- |
| **14.6 Police Deployment Plan** |
| **1-** |  |  |  |  |   |
| **Sr.** | **Site of Breaching section**  | **Concerned Canal Division** | **Concerned Police station & District** | **Police personal to be deployed** | **Remarks(if any)** |
| **Inspector / S.I / A.S.I** | **Constables** |
| 1 | No Breaching section | Nil  |  Nil | Nil  |  Nil |   Nil |
| **2-** |  |  |  |  |  |  |
| **Sr.** | **Vulnerable sites used for illegal cuts during floods** | **Concerned Canal Division** | **Concerned Police station & District** | **Police personal to be deployed** | **Remarks(if any)** |
| **Inspector / S.I / A.S.I** | **Constables** |
| 1 | J-Head Spur Tail of Q.B Link Canal RD 3-4 | Q.B LINK DIVISION FAROOQABAD | MANDI FAIZA ABAD | Sub Inspector = 03 Nos. | 4 Nos. |   |

**PROVISION OF ADDITIONAL FLOOD FIGHTING MATERIAL**

* 1. **SYNTHETIC BAGS WITH CAPACITY OF 500 kg**
1. **J-HEAD SPUR TAIL OF Q.B LINK CANAL RD 3 to 5**

|  |  |  |
| --- | --- | --- |
| **Required** | **Available** | **Balance** |
| Approx. 100 Bags | - | Approx. 100 Bags |

* 1. **PLASTIC SHEET**
1. **J-HEAD SPUR TAIL OF Q.B LINK CANAL RD 3 to 5**

|  |  |  |
| --- | --- | --- |
| **Required** | **Available** | **Balance** |
| Approx. 100,000 Sft. | - | Approx. 100,000 Sft. |

|  |  |
| --- | --- |
|  | Executive EngineerQadirabad Balloki Link Canal DivisionFarooqabad |

**Chapter-15**

**BACK UP DIVISION**

Qadirabad Barrage Division will be the backup Division in case of any damage of structure/bund.

As already explained above, no effects of flood water spreading from any breaching section exist.

|  |  |
| --- | --- |
| Executive Engineer,Qadirabad Balloki Link Canal Division,Farooqabad. |  Superintending Engineer, Q.B. Link, Circle, Farooqabad. |
| Chief Engineer,Irrigation Faisalabad Zone,Faisalabad. |