

**GOVERNMENT OF THE PUNJAB**  
**IRRIGATION DEPARTMENT**



**Flood Fighting Plan 2020**

**PASRUR LINK DIVISION SIALKOT**

**LINK CIRCLE LAHORE**

**IRRIGATION ZONE LAHORE**

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# PART-A

## **PART – A**

### **Chapter # 1:**

#### **Salient Features of Pasrur Link Division Sialkot**

##### **1.1 Location**

Pasrur Link Division is located at DC Road in Sialkot City.

##### **1.2 General Description**

Pasrur Link Division, Sialkot is responsible for the area falling in between Chenab River and Ravi River. The area comes under the sub humid zone and receives high precipitation. This area is not only affected by local rains but also receives flashy rainwater from across the Indo-Pak Border, which is sub mountainous region. The topography of the area is that water flows along the natural slope. i.e. from North-East to South-West. District Sialkot and Narowal are the revenue boundary in this area. Both the Districts are known due to their natural Nullahs namely, Palkhu, Aik, Deg, Basanter and Bein. Besides this, a number of natural Nullahs also receive flashy water from across the border i.e. occupied Jammu & Kashmir and create flood problems. These Nullahs are Neelwah, Dugri, Hasri, Ugh, Budhi, Turnah, Nikki Deg etc.

Marala Ravi Link Canal off-takes from Marala Head works situated on the Chenab River at about 15 miles north of Sialkot and extends in a southern direction towards its out-fall in Ravi River near Baddomalhi Town. The above said natural Nullahs intercept the canal (as shown in the index plan attached) at a number of places where cross drainage facilities have been provided. The water after crossing MR Link through the cross drainage works inundates the area between UCC and BRBD Link Canal. Alarming condition is also faced along left bank of UCC and BRBD Link. The dangerous reaches along MR Link and BRBD Link are those where the cuts in the past have been observed. The Sub Divisional Officer, Goraya Sub Division, Daska is responsible for the safety of BRBD Link Canal from RD 0+500 to RD 178+000. The Sub Engineers are responsible to operate the inlets if the water level in the canal allows the floodwater to enter in the canal.

Marala Ravi Link Canal (RD 7+100 to RD 317+315 tail), Sub Link from (RD 0 to 11+600 tail), BRBD Link Canal (RD 0+500 to RD 178+000) and Flood Embankments along Deg Nullah, Aik Nullah and Palkhu Nullah within boundary of District Sialkot, Narowal, fall under the jurisdiction of Pasrur Link Division Sialkot.

Executive Engineer, being overall in-charge of Pasrur Link Division with headquarter at Sialkot, is responsible to look after all canals and flood bunds in his jurisdiction of Sheikhpura, Narowal and Sialkot Districts. Executive Engineer of this Division has overall control with the following controlling officer:

| SR. NO. | NAME AND DESIGNATION OF OFFICER                                                           | HEADQUARTER                                      | TELEPHONE NO |
|---------|-------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|
| 1       | Naveed Virk<br>Sub Divisional Officer,<br>Rawal Link Sub Division Sialkot                 | Sialkot                                          | 0301-6623908 |
| 2       | Naveed Ahmed<br>Sub Divisional Officer,<br>Baddomalhi Link Sub Division<br>Deg Rest House | RD 220+122 MR<br>Link Canal Deg Rest<br>House    | 0333-4915939 |
| 3       | Allah Ditta Tarrar<br>Sub Divisional Officer,<br>Goraya Sub Division Daska                | R.D. 19 + 786 / L<br>BRBD Link Canal at<br>Daska | 0300-4730037 |
| 4       | Abdul rehman<br>Sub Divisional Officer<br>Daska Drainage Sub Division Daska               | R.D. 19 + 786 / L<br>BRBD Link Canal at<br>Daska | 03006402041  |

The jurisdictions of Sub Divisional Officers are as under:

#### RAWAL LINK SUB DIVISION SIALKOT

Sub Divisional Officer is in-charge of MR Link Canal from RD.7+100 to RD.133+600, MR Link off taking channels from RD.99+000 to RD.220+122 with their allied embankments. Flood protection works along Aik Nullah naming, City Flood Protection Bund, Hajipura Flood Protection Bund and Mallah Chak Flood Protection Bund also fall under the jurisdiction of Rawal Link Sub Division. These bunds have been constructed for the protection of Sialkot City and several thickly populated villages against the heavy discharge and spills of Aik Nullah passing through Sialkot City. In addition to this Sub Divisional Officer Rawal Link Sub Division will also look after the flood protection bunds along Deg Nullah from Defence Embankment to Kingra Road and Kingra Road to Choor Bridge for protection of villages in Tehsil Pasrur i.e. Hanjli, Mehtab, Chatoke, Kotli Peakan, Kotli Choor, Tharo Mandi, Dheroke, Sehowal etc. Sub Engineers attached with this Sub Division, showing their camp sites during flood season are as under:

| SR. NO. | DESIGNATION                 | RESPONSIBLE FOR                                                                              | SITE OF CAMP DURING FLOOD SEASON                | Additional Duties                                |
|---------|-----------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| 1       | Sub Engineer Marala Section | RD 7-50 / M.R. Link                                                                          | Inlet RD 46/L M.R. Link                         | Kingra Road Bridge to Hanjli Bridge              |
| 2       | Sub Engineer Colony Section | RD 50- 75 / M.R. Link                                                                        | RD 52-53/L M.R. Link ( Sialkot Wazir abad Road) | Assist to Sub Engineer AIK Section               |
| 3       | Sub Engineer RD 114 Section | RD 75-134 / M.R. Link                                                                        | RD 114/R M.R. Link ( Jamke Rest House)          | AIK Nullah M.R Link to Sialkot Daska Road Bridge |
| 4       | Sub Engineer Aik Section    | City Flood Bunds, Mallaha Chak Flood Bund and Hajipura Bund Aik Nullah R.D 97+000 TO 163+150 | City Protection Bund & Haji Pura Flood Bund     | -                                                |

### BADDOMALHI LINK SUB DIVISION DEG REST HOUSE

The Sub Divisional Officer is in-charge of MR Link Canal from RD 133+600 to RD 317+315 (Outfall), M.R. Link off taking channels from RD.220+122 to RD.302+495 along with their allied Flood Embankments.

This Sub Division looks after left and right marginal Bunds along Deg Nullah in a length of 7.76 miles constructed for the protection of Deg Super passage at RD 220+122/M.R. Link, flood protection bunds from Dhir Pir Muhammad to Chak Raja. This Sub Division deals with maintenance and the regulation of M.R. Sub Link to feed BRBD Link during keen demand.

Sub Engineers are deputed to look after the canal where spill of Deg Nullah accumulates along M.R. Link between RD 134+500/L to RD 295+000/L causing breaches or deliberate cuts in the bank of canal. Sub Engineers attached with this Sub Division showing their camp sites during flood season are given on next page.

| SR. NO | DESIGNATION                    | RESPONSIBLE FOR                                                               | SITE OF CAMP DURING FLOOD SEASON                               |
|--------|--------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------|
| 1      | Sub Engineer RD 168 Section    | RD 134- 173 M.R. Link                                                         | RD 168/R M.R.Link Escape of M.R. Link (Kotli Bawa Faqir Chand) |
| 2      | Sub Engineer Kalaswala Section | RD 173-220 M.R. Link                                                          | RD 173-174/R M.R. Link (Ban Bajwa, Tehsil Pasrur)              |
| 3      | Sub Engineer Deg Section       | RD 220-265 M.R. Link, Left and Left and Right Marginal Bunds along Deg Nullah | RD 220+122/L M.R. Link Deg Rest House                          |
| 4      | Sub Engineer Tail Section      | RD 265- 317+315 / M.R. Link and M.R. Sub Link (Head to Tail)                  | RD 302/R M.R. Link (Fall / Regulation point of M.R. Sub Link)  |

## GORAYA SUB DIVISION DASKA

This Sub Divisional Officer is in-charge of BRBD Link Canal from RD 0+500 to RD178+000 with his Headquarter at its RD.20/L Daska. Inlets have been constructed at RD 17-18/L, 25-26/L and RD 100-101/L to drain out flood water accumulated along left bank of BRBD Link. Hasri Nullahs I and II cross BRBD Link Canal through Syphons of capacity 5000 cusec and 2500 cusec at RD 85+500 and RD 86+040 respectively. Deg Super passage having 12000 cusec discharging capacity exists at RD 104+333 of BRBD Link Canal for Deg Nullah crossing. Every year there is a lot of hue and cry from the inhabitants of Daska City as water accumulates in city during heavy rains. The people cut the left bank of BRBD Link canal despite the fact that Canal is reduced and inlets are opened. The Sub Engineers attached with this Sub Division with their headquarters are as under:

| SR. #. | DESIGNATION                  | RESPONSIBLE FOR         | SITE OF CAMP DURING FLOOD SEASON           | Addition Duty |
|--------|------------------------------|-------------------------|--------------------------------------------|---------------|
| 1      | Sub Engineer Daska Section   | RD 0-50 / BRBD Link     | RD 20 BRBD Link ( Sialkot-Gujranwala Road) |               |
| 2      | Sub Engineer Lurrike Section | RD 50- 90 / BRBD Link   | RD 50 BRBD Link                            |               |
| 3      | Sub Engineer RD 104 Section  | RD 90-131 / BRBD Link   | RD 104 BRBD Link                           |               |
| 4      | Sub Engineer RD 144 Section  | RD 131- 178 / BRBD Link | RD 166/R BRBD Link                         |               |

## DASKA DRAINAGE SUB DIVISION DASKA.

This Sub Divisional Officer is in-charge of Daska Drainage Sub Division Daska look after the Drains and Natural Nullahs falls in District Sialkot Recently transferred from Rachna Drainage Division Sheikhpura to Pasrur Link Division for better look after the Drainage Systems Specially During Moon Soon Season.

### Palkhu Nullah

Palkhu Nullah enters into Pakistan from Indian held Kashmir near village vens at LOC. It passes through Sialkot city, Sambrial, Wazirabad and outfalls in Chenab River upstream of Khanki Head works. The total length of the Nullah from LOC to Outfall is 60 miles. The upper catchment area is hilly and the flood water enters Pakistan territory at a high velocity and the water levels in the Nullah rises swiftly and abruptly.

## JURISDICTION OF SUB ENGINEER IN DASKA DRAINAGE SUB DIVISION, DASKA

| SR.<br>#. | DESIGNATION                                      | RESPONSIBLE FOR                                                           | SITE OF CAMP<br>DURING FLOOD<br>SEASON | ADDITION<br>DUTY |
|-----------|--------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------|------------------|
| 1         | <b>Sub Engineer<br/>Marala Section</b>           | Gondal Drain                                                              |                                        |                  |
|           |                                                  | Dhalewali Drain /II                                                       |                                        |                  |
|           |                                                  | Rodial Drain                                                              |                                        |                  |
|           |                                                  | Tunnelwah Nullah                                                          |                                        |                  |
|           |                                                  | Dugri No.I                                                                |                                        |                  |
|           |                                                  | Dugri No.II                                                               |                                        |                  |
|           |                                                  | Connecting Drain between MR<br>Link UCC Canal.                            |                                        |                  |
|           |                                                  | Side Drains Along MR Link<br>Canal 2-L, 1-R.                              |                                        |                  |
|           |                                                  | Side Drains Along UCC                                                     |                                        |                  |
|           |                                                  | 1-L, 2-L,3-L,1-R,2-R, 3-R                                                 |                                        |                  |
|           |                                                  | Kotli Loharan Drain                                                       |                                        |                  |
|           |                                                  | Neelwah Nullah                                                            |                                        |                  |
| 2         | <b>Sub Engineer<br/>Khambranwala<br/>Section</b> | Central Seepage Drain                                                     |                                        |                  |
|           |                                                  | Connecting Drain.                                                         |                                        |                  |
|           |                                                  | Palkhu Nullah                                                             |                                        |                  |
|           |                                                  | Jourian Drain.                                                            |                                        |                  |
|           |                                                  | Roras Drain.                                                              |                                        |                  |
|           |                                                  | Roras Try Drain.                                                          |                                        |                  |
|           |                                                  | Side seepage Drain Along M.R<br>Link Drain 3-L,4-L, 2-R, 3-R              |                                        |                  |
|           |                                                  | Side seepage Drain Along<br>UCC 4-L, 5-L, 6-L, 7-L,4-R,5-<br>R, 6-R, 7-R. |                                        |                  |
| 3         | <b>Sub Engineer<br/>Sambrial Section</b>         |                                                                           |                                        |                  |
|           |                                                  | Central Seepage Drain                                                     |                                        |                  |
|           |                                                  | Sambrial Try Drain                                                        |                                        |                  |
|           |                                                  | Sambrial Drain                                                            |                                        |                  |
|           |                                                  | Malluwala Drain                                                           |                                        |                  |
|           |                                                  | Begowala Drain                                                            |                                        |                  |
|           |                                                  | Aik Drain                                                                 |                                        |                  |
|           |                                                  | Passia Drain                                                              |                                        |                  |
|           |                                                  | Chak Kaka Drain                                                           |                                        |                  |
|           |                                                  | Kot Deran Drain                                                           |                                        |                  |
|           |                                                  | Drain along Pacca Road                                                    |                                        |                  |

|   |                            |                                                      |  |  |
|---|----------------------------|------------------------------------------------------|--|--|
|   |                            | Sahowala Drain                                       |  |  |
|   |                            | Side Drain along MR Link Canal.                      |  |  |
|   |                            | Side Drain along UCC                                 |  |  |
|   |                            | 8-L, 9-L, 10-L 11-L, 12-L, 8-R, 9-R, 10-R 11-R ,12-R |  |  |
| 4 | Sub Engineer Daska Section | Daska Main Drain                                     |  |  |
|   |                            | Daska 1 Drain                                        |  |  |
|   |                            | Daska 2 Drain                                        |  |  |
|   |                            | Cheema Try Drain                                     |  |  |
|   |                            | Bombanwala Drain                                     |  |  |
|   |                            | Side Drain along BRBD Link canal                     |  |  |
|   |                            | Ratta Bajwa Drain                                    |  |  |
|   |                            | Thatta Bajwa Drain                                   |  |  |
|   |                            | Goindke Drain                                        |  |  |
|   |                            | Budha Goraya Drain                                   |  |  |
|   |                            | Sohian Drain                                         |  |  |
|   |                            | Sohawa Drain                                         |  |  |
|   |                            | Lurriki Main Drain                                   |  |  |
|   |                            | Lurriki Try Drain                                    |  |  |
|   |                            | Bhathanwala Try Drain                                |  |  |
|   |                            | Dholewali Try Drain                                  |  |  |
|   |                            | Raja Gurriyan Drain                                  |  |  |
|   |                            | Raneke Drain                                         |  |  |
|   |                            | Hassri Nullah 1                                      |  |  |
|   |                            | Hassri Nullah 2                                      |  |  |
|   |                            | Hassri Try Drain                                     |  |  |
|   |                            | Pathanwali Drain                                     |  |  |
|   |                            | Pathanwali Try Drain                                 |  |  |
|   |                            | Ramke Drain                                          |  |  |
|   |                            | Mohendwali Drain                                     |  |  |
|   |                            | Satrah Drain                                         |  |  |

**The Detail of Drains under the jurisdiction of Daska Drainage Sub Division, Daska are as under.**

| Sr.# | Name of Drain                   | District | Outfall Location |                                      | Total Length (ft) | Designed Discharge at outfall (Cusec) |
|------|---------------------------------|----------|------------------|--------------------------------------|-------------------|---------------------------------------|
|      |                                 |          | RD               | Name of Drain                        |                   |                                       |
| 1    | Daska Drain                     | GRW/SKT  | 22444            | Abdal Drain                          | 11.32             | 4.2                                   |
| 2    | R/S seepage Drain alog B.R.B.D. | SKT      | 56575            | Daska Drain                          | 1.10              | 2                                     |
| 3    | Bambanwala Drain                | SKT      | 56575            | Daska Drain at syphon R.D.10367 BRBD | 1.60              | 1.4                                   |
| 4    | Lurki Drain                     | SKT      | -                | Hasri Nullah                         | 15.40             |                                       |

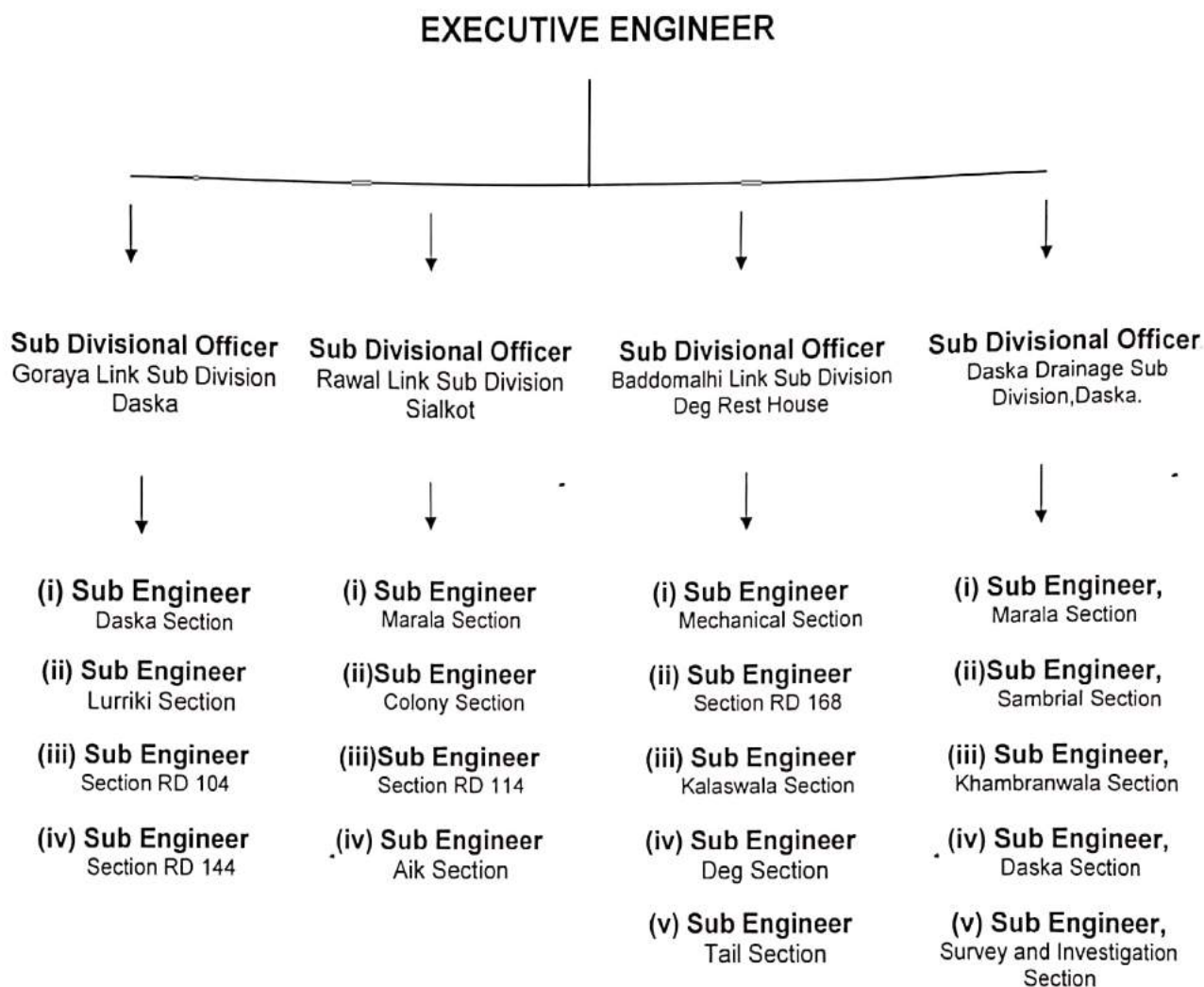
|    |                                              |     |        |                                                                 |       |      |
|----|----------------------------------------------|-----|--------|-----------------------------------------------------------------|-------|------|
| 5  | Dholewali Drain                              | SLK | 45125  | Lurki Main Drain                                                | 3.70  | 4.7  |
| 6  | Budha Goraya Drain                           | SLK | 18500  | Dholewali Dr: at syphon R.D. 65000 BRBD                         | 4.65  | 3.1  |
| 7  | Bharthanwala Drain                           | SLK | 57198  | Lurki Main Drain                                                | 1.46  | 4.2  |
| 8  | Lurki Try Drain                              | SLK | 64813  | Lurki Main Drain                                                | 2.37  | 4.39 |
| 9  | Raja Ghuman Drain                            | SLK | 72444  | Lurki Main Drain                                                | 3.11  | 3.07 |
| 10 | Daska Drain No – 1                           | SLK | 29640  | Syphon B.B.D.Link                                               | 6.51  | 5.29 |
| 11 | Daska Drain No – 2                           | SLK | 37000  | Syphon B.B.D.Link                                               | 16.00 | 4.32 |
| 12 | Pathanwala Drain                             | SLK | 134500 | Syphon MR Link Canal                                            | 4.70  | 2.67 |
| 13 | Ranike Drain                                 | SLK | 43475  | Syphon B.B.D.Link                                               |       |      |
| 14 | Tunnelwah Drain                              | SLK |        | Chenab River                                                    | 14.60 | 4.2  |
| 15 | 1-R Seepage Drain along U.C.C.               | SLK | 0+00   | Tannelwah Nullah Dr: D/S of Syp: R.D. 17050 U.C.C.              | 1.38  | 5    |
| 16 | 1-L Seepage Drain along U.C.C.               | SLK | 0+00   | Tannelwah Nullah Dr: U/S of Syp: R.D. 17050 U.C.C.              | 2.01  | 16   |
| 17 | Neelwah Nullah Drain                         | SLK |        | Tannelwah Nullah Dr: U/S of Syp: R.D. 18100 M.R.L.              | 7.04  | 2.9  |
| 18 | Dhallowali Drain                             | SLK | 0+00   | Neel wah Nullah Drain U/S of syphon R.D. 18100 M.R.L.           | 2.23  | 2.4  |
| 19 | Gondal Drain                                 | SLK | 12650  | Dhallowali Drain                                                | 7.25  | 2.5  |
| 20 | Rodial Drain                                 | SLK | 20250  | Gondal Drain                                                    | 1.60  | 1.2  |
| 21 | Dugri Drain No. 1                            | SLK |        | Palkhu Nullah                                                   | 16.60 | 4.2  |
| 22 | Dugri Drain No. 2                            | SLK | 20000  | Dugri Drain No.1                                                | 2.67  | 3.1  |
| 23 | 3-R Seepage along U.C.C. R/S                 | SLK | 0+00   | Dugri Dr: No.2 syp: D/S R.D. 41600 UCC                          | 0.60  | 45   |
| 24 | 3-R Seepage along U.C.C. L/S                 | SLK | 0+00   | Dugri Dr: No.2 syp: D/S R.D. 41600 UCC                          | 0.88  | 45   |
| 25 | Connecting Drain between UCC & MRL           | SLK | 0+00   | Dugri Drain No. 2                                               | 1.20  | 125  |
| 26 | 3-L seepage Dr: along UCC                    | SLK | 0+00   | Connecting Drain between UCC & MRL U/S of syphon R.D. 41600 UCC | 1.16  | 25   |
| 27 | 4-L seepage Dr: along UCC                    | SLK | 0+00   | Connecting Drain between UCC & MRL U/S of syphon R.D. 41600 UCC | 0.58  | 45   |
| 28 | 2-R seepage Dr: along UCC R/S of Dugri No. 1 | SLK | 0+00   | Dugri No. 1 at D/S of syp: R.D. 35800 UCC                       | 3.36  | 45   |
| 29 | 2-R seepage Dr: along UCC L/S of Dugri No. 1 | SLK | 0+00   | Dugri No. 1 at D/S of syp: R.D. 35800 UCC                       | 0.56  | 45   |
| 30 | Connecting Drain between UCC & MRL           | SLK | 0+00   | Dugri No. 1 at U/S of syp: R.D. 35800 UCC                       | 1.10  | 45   |

|    |                                |     |        |                                                  |       |      |
|----|--------------------------------|-----|--------|--------------------------------------------------|-------|------|
| 31 | 2-L seepage Drain along UCC    | SLK |        | Connecting Dr: U/S syp: R.D. 35800 UCC           | 3.66  | 10   |
| 32 | 1-R seepage Drain along MRL    | SLK |        | Connecting Dr: at D/S syp: 34100 MRL             | 0.52  | 25   |
| 33 | 1-L seepage Drain along MRL    | SLK | 0+00   | Connecting Dr: at U/S syp: 34100 MRL             | 2.02  | 2.4  |
| 34 | Kotli Loharan Drain            | SLK | 31300  | Side Seepage Drain                               | 2.10  | 2.5  |
| 35 | Palkhu out fall drain          | SLK | 153300 | Palkhu Nullah 153300 from Chenab River.          | 6.27  | 6    |
| 36 | 4-R Seepage Drain along U.C.C. | SLK | 0+00   | Palkhu out fall dr. D/S at syph. 52200 UCC       | 0.64  | 45   |
| 37 | 5-R Seepage Drain along U.C.C. | SLK | 0+00   | Palkhu out fall dr. D/S atsyph. 52200 UCC        | 0.52  | 12   |
| 38 | Palkhu Nullah                  | SLK |        | Palkhu out fall dr. D/S at syph. 52200 UCC       | 11.76 | 5.32 |
| 39 | 5-L Seepage Drain along U.C.C. | SLK | 184800 | Palkhu Nullah U/S at syph.52200 UCC              | 0.98  | 45   |
| 40 | Central Seepage Drain          | SLK | 190000 | Palkhu Nullah between UCC & MRL                  | 5.20  | 3    |
| 41 | Jourian Outfall Drain          | SLK | 31500  | Palkhu Nullah Drain                              | 6.30  | 45   |
| 42 | Roras Outfall Drain            | SLK | 23000  | Jourian Outfall Drain                            | 2.60  | 45   |
| 43 | 7-R seepage Dr: along UCC      | SLK | 0+00   | Roras Outfall Dr: U/S syp: 75800 UCC             | 1.66  | 45   |
| 44 | 8-R seepage Dr: along UCC      | SLK | 0+00   | Roras Outfall Dr: U/S syp: 75800 UCC             | 0.84  | 5    |
| 45 | 7-L seepage Dr: along UCC      | SLK | 0+00   | Roras Outfall Dr: U/S syp: 75800 UCC             | 1.80  | 110  |
| 46 | 7-L seepage Dr: along UCC      | SLK | 0+00   | Roras Outfall Dr: U/S syp: 75800 UCC             | 0.94  | 110  |
| 47 | 6-R seepage Dr: along UCC      | SLK | 0+00   | Jourian Outfall Dr: U/S syp: 63450 UCC           | 1.73  | 45   |
| 48 | 6-R seepage Dr: along UCC      | SLK | 0+00   | Jourian Outfall Dr: U/S syp: 63450 UCC           | 0.75  | 45   |
| 49 | Jourian Dr: between UCC & MRL  | SLK | 0+00   | Jourian Outfall Dr: U/S syp: 63450 UCC           | 0.90  | 45   |
| 50 | 6-L seepage Dr: along UCC      | SLK | 4500   | Jourian Drain between UCC & MRL                  | 1.92  | 30   |
| 51 | 6-L seepage Dr: along UCC      | SLK |        | Jourian Drn. between U/Ssyp: 63450 UCC           | 0.67  | 30   |
| 52 | 2-R seepage Dr: along MRL      | SLK |        | Jourian Dr: between MRL & UCC D/S syp: 60500 MRL | 1.30  | 2.2  |
| 53 | 3-R seepage Dr: along MRL      | SLK |        | Jourian Dr: between MRL & UCC D/S syp: 60500 MRL | 2.10  | 25   |

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|    |                                            |     |        |                                                  |       |      |
|----|--------------------------------------------|-----|--------|--------------------------------------------------|-------|------|
| 54 | 2-L seepage Dr. along MRL                  | SLK |        | Jourian Dr. between MRL & UCC U/S syp: 60500 MRL | 1.90  | 16   |
| 55 | 3-L seepage Dr. along MRL                  | SLK |        | Jourian Dr. between MRL & UCC U/S syp: 60500 MRL | 2.90  | 2    |
| 56 | Roras Try: drain.                          | SLK | 100    | Jourian out fall drain.                          | 0.85  | 45   |
| 57 | Aik Nullah Drain                           | SLK |        | Palkhu Nullah                                    | 19.50 | 13.7 |
| 58 | Pasia Drain.                               | SLK | 6510   | Aik Nullah drain.                                | 2.60  | 45   |
| 59 | 11-R Seepage Drain along U.C.C.            | SLK | 0+00   | Pasia Drain D/S syphon 115900 UCC                | 1.08  | 5    |
| 60 | 12-R Seepage Drain along U.C.C.            | SLK | 0+00   | Pasia Drain D/S syphon 115900 UCC                | 0.82  | 5    |
| 61 | 11-L Seepage Drain along U.C.C.            | SLK | 0+00   | Pasia Drain at U/S syphon 115900 UCC             | 0.98  | 5    |
| 62 | 12-L Seepage Drain along U.C.C.            | SLK | 0+00   | Pasia Drain at U/S syphon 115900 UCC             | 1.02  | 5    |
| 63 | Chak Kakka Drain.                          | SLK | 6225   | Pasia Drain.                                     | 1.66  | 4    |
| 64 | 10-R Seepage Drain along U.C.C.            | SLK |        | Aik Nullah just D/S syphon 100650 UCC            | 1.23  | 5    |
| 65 | 9-L Seepage Drain along U.C.C.             | SLK |        | Aik Nullah just U/S syphon 10050 UCC             | 0.73  | 5    |
| 66 | 10-L Seepage Drain along U.C.C.            | SLK |        | Aik Nullah just U/S syphon 10050 UCC             | 0.72  | 5    |
| 67 | Begowala Drain.                            | SLK | 35125  | Aik Nullah drain.                                | 10.70 | 7.5  |
| 68 | Kot Daran Drain.                           | SLK | 16250  | Begowala drain.                                  | 1.89  | 3.1  |
| 69 | Sambrial Try: Drain.                       | SLK | 14776  | Sambrial Br: Drain.                              | 1.53  | 45   |
| 70 | Sambrial Br: Drain.                        | SLK |        | Begowala drain.                                  | 1.63  | 45   |
| 71 | Moulowali Drain.                           | SLK | 8000   | Begowala drain.                                  | 2.34  | 138  |
| 72 | Drain along pacca road.                    | SLK | 0+00   | Moulowali Drain.                                 | 3.10  | 3.13 |
| 73 | 9-R-Seepage Dr. along UCC R/S Begowala Dr. | SLK | 0+00   | Begowala drain U/S syphon 90275 UCC              | 0.64  | 5    |
| 74 | Sahowala Drain.                            | SLK | 0+00   | Begowala drain U/S syphon 90275 UCC              | 3.94  | 3.1  |
| 75 | 8-L Seepage Dr. UCC L/S Sahowala Dr.       | SLK | 0+00   | Sahowala Drain                                   | 2.30  | 5    |
| 76 | Hasri Main Drain                           | SLK |        | Dek Nullah                                       | 23.29 | -    |
| 77 | Hassri Nullah No. 1                        | SLK | 85500  | Syphon B.R.B.D Link                              | 12.80 | 8.5  |
| 78 | Sohawa Drain                               | SLK | 23000  | Hassri Nullah No. 1                              | 6.00  | 4.7  |
| 79 | Ratta Bajwa Drain                          | SLK | 6330   | Sohawa Drain.                                    | 1.35  | 3.6  |
| 80 | Hassri Nullah No. 2                        | SLK | 190850 | Syphon M.R. Link                                 | 15.70 | 5    |
| 81 | Ramke Drain                                | SLK |        | Hasri Nullah No. 2                               | 1.50  | 2.2  |
| 82 | Hassri Try Drain                           | SLK | 55000  | Hassri Nullah No. 1                              | 4.50  | 8.1  |
| 83 | Bagowala Drain                             | SLK | 9000   | Hassri Drain                                     | 5.40  | 3.3  |
| 84 | Maherwali Drain                            | SLK | 46558  | Hassri Drain                                     | 5.40  | 3.14 |

### 1.3 ADMINISTRATIVE SETUP



## Chapter # 2:

### Flood Protection and River Training Works.

#### 2.1 Data of Flood Bunds/Embankments along Drains/Nullahs in Pasrur Link Division, Sialkot.

Division, District.

| Sr. #                                   | Name of Channel / Nullah with Location                                                                     | Length (Miles) | Year of Construction | Top width (Ft) | Side Slope |            |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------|----------------|----------------------|----------------|------------|------------|
|                                         |                                                                                                            |                |                      |                | Inner      | Outer      |
| Flood Protection along Deg Nullah       |                                                                                                            |                |                      |                |            |            |
| 1                                       | Left Flood protection bund over Deg Nullah from Defence Embankment to Zafarwal Kingra road RD. 0 – 11250.  | 2.25           | 2008                 | 20.0           | 3:1        | 2:1        |
| 2                                       | Right Flood protection bund over Deg Nullah from Defence Embankment to Zafarwal Kingra road RD. 0 – 14500. | 2.90           | 2008                 | 20.0           | 3:1        | 2:1        |
| 3                                       | Left Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-27750                  | 5.55           | 2005                 | 20.0           | 3:1        | 2:1        |
| 4                                       | Right Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-29600                 | 5.92           | 2005                 | 20.0           | 3:1        | 2:1        |
| 5                                       | Right Flood Protection bund along Deg Nullah Dhir Pir Muhammad Chak Raja from RD.0-16+000                  | 3.2            | 2005                 | 20.0           | 3:1        | 2:1        |
| 6                                       | Left Flood Protection bund along Deg Nullah Dhir Pir Muhammad Chak Raja from RD.0-15+000                   | 3.00           | 2005                 | 20.0           | 3:1        | 2:1        |
| 7                                       | Left Marginal Bund along Deg Nullah R.D.0-20700                                                            | 4.14           | 1959                 | 20.0           | 3:1        | 2:1        |
| 8                                       | Right Marginal Bund along Deg Nullah R.D.0-18100                                                           | 3.62           | 1959                 | 20.0           | 3:1        | 2:1        |
| Flood Protection Bunds along Aik Nullah |                                                                                                            |                |                      |                |            |            |
| 1                                       | City Flood Protection Bund along Aik Nullah R.D.0-7340                                                     | 1.47           | 1964                 | 10.0           | 3:1        | 2:1        |
| 2                                       | Mallah Chak Flood Protection Bund along Aik Nullah R.D.0-31500                                             | 6.30           | 1984                 | 20.0           | 3:1        | 2:1        |
| 3                                       | Haji Pura Flood Protection Bund along Aik Nullah R.D.3900-12500                                            | 1.72           | 1984                 | 5.0            | 3:1        | Pacca Wall |
| 4                                       | Aik Nullah Drain Bund 0-49+700                                                                             | 9.94           | 1991                 | 15             | 3:1        | 3:1        |
| 5                                       | Bagowala Drain Bund 0-53+500                                                                               | 10.88          | 1987                 | 15             | 3:1        | 3:1        |
| 6                                       | Mullowali Drain Bund 0-11+700                                                                              | 2.34           | 1939                 | 15             | 3:1        | 3:1        |
| 7                                       | Passia Drain Bund 0-13+000                                                                                 | 2.6            | 1929                 | 15             | 3:1        | 3:1        |
| 8                                       | Khanna Flood Protection Bund RD.34+100 MR Link to RD.35+800 UCC                                            | 1.14           | 2009                 | 15             | 3:1        | 3:1        |



IRRIGATION DEPARTMENT PUNJAB

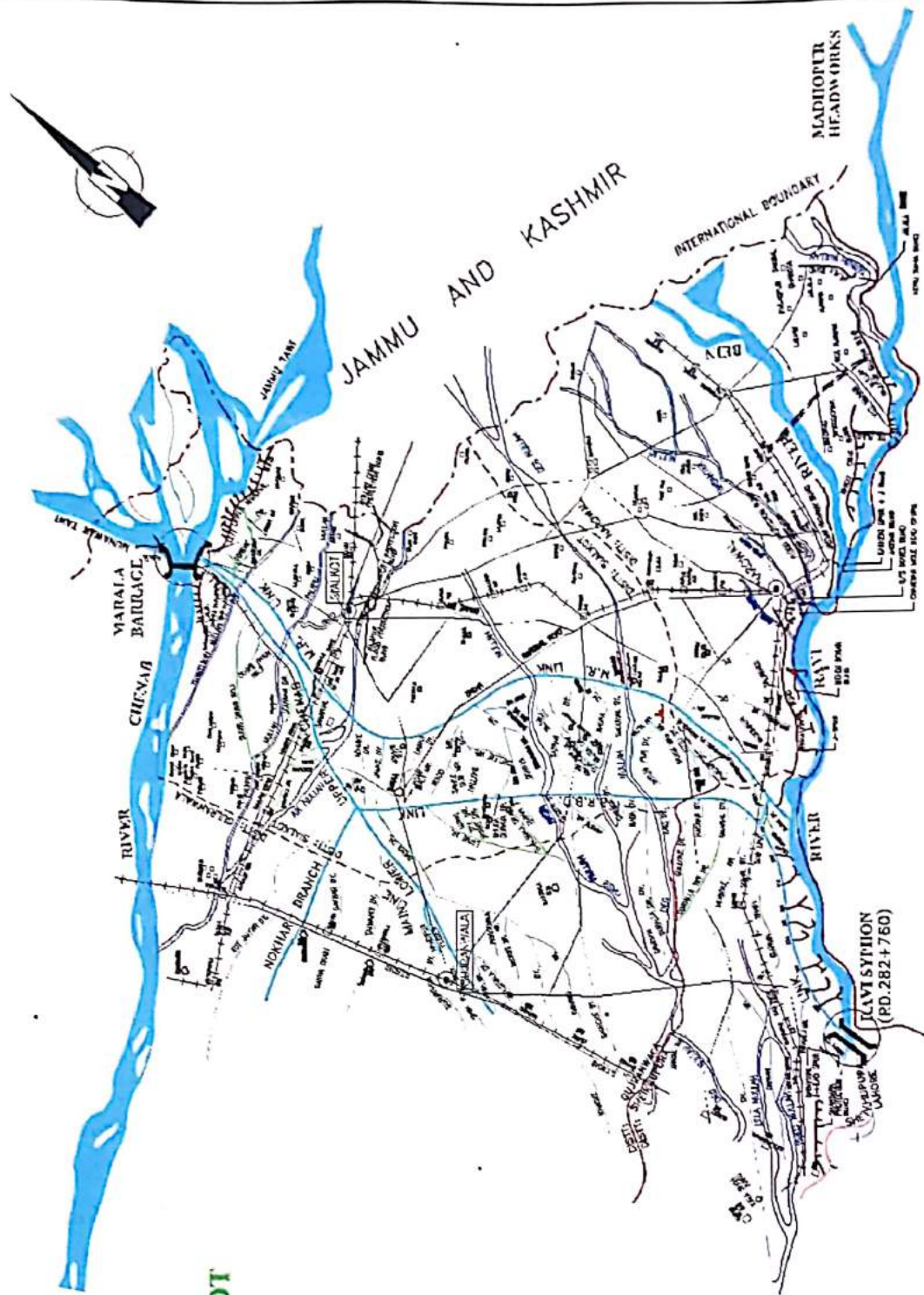
# INDEX PLAN

## PASRUR LINK DIVISION SIALKOT



### LEGEND:

- RIVER
- NULLAH
- RAILWAY LINE WITH RAILWAY STATION
- ROAD
- MOTORWAY WITH INTER CHANGE
- BARRAGE/HEADWORKS
- DISTRICT HEADQUARTERS
- BUNDS
- DRAIN
- MAIN & BRANCH CANAL
- FEEDER & LINK
- ESCAPE
- DISTRIBUTARY & MINOR
- INTERNATIONAL BOUNDARY
- DISTRICT BOUNDARY
- ABADIES



INDIA

## **Chapter # 3:**

### **BRIEF HISTORY OF PAST FLOOD EVENTS**

#### **FLOOD 2007:**

The left flood bund of Deg Nullah also washed away in reach RD 4500-5400 and a ring bund was constructed for the passage of flood to save the further damage. The winter rains also played havoc as the gauge rose to 6.5 ft on 13-3-2007, 14-3-2007 and also on 21-3-2007. Some damages were also restored on the nose of spur RD 4500. After this, during moon soon 2007, there were small freshets of low flood intensity in Deg Nullah and Aik Nullah, which passed safely without causing any damage to infrastructures in the area.

#### **FLOOD 2008:**

During 2008, flood bunds along Deg Nullah U/S Kingra Bridge were badly damaged. Flood fighting was made by the Department successfully to save the adjoining villages, abadies and other infrastructures in the area. For the most damaged and critical reaches, a work namely "Repairing flood bund along Deg Nullah U/S Kingra Bridge" was executed for the safety of the people and properties of adjoining villages.

#### **FLOOD 2009:**

During flood season 2009, the abnormal flood was received in Deg Nullah with high magnitude velocity. The duration of high flood was also more than 18 hours. These long duration and high velocity attacked the bunds in different reaches. Flood fighting was made by the department successfully to save the bunds, adjoining villages and other infrastructures in the area. For damaged & critical reaches, the works namely strengthening left flood protection bund u/s Kingra bridge RD.7+000 to 8+500/R repairing flood protection bund RD.1+800 to 2+500/R are in progress for the safety of the people and proprieties of adjoining villages as well as government infrastructures i.e. Bridges culverts roads, schools, etc.

#### **FLOODS 2010:**

During the third & fourth week of July 2010, Heavy rainfalls occurred in Jammu & Kashmir which caused frequent freshet in Deg Nullah. On 22.07.2010, a freshet of High magnitude of about **42000 Cs** passed through Deg Nullah. The stream of flow changed its behavior abruptly and hit the left Flood Embankment between reach R.D. 8+000 to 10+000 which was checked by using sand bags and Bamboos for support of sand bangs against slipping. The situation maintained till 05.08.2010.

On 06.08.2010, a freshet having discharge magnitude of about 40000 to 42000 Cs occurred in the morning hours at 08:30 AM and attacked severely on the eroded bank in reach RD 8+000 to 9+000. The duration of the peak spanned up to 30 hours. Due to abrupt change in flow behavior of Deg Nullah the velocity of Flood Water as experienced was 10-12 ft / sec. Furthermore freshets of high magnitude passed through Deg Nullah from time to time.

### **FLOODS 2011:**

During the month July & August 2011, heavy rainfalls occurred in Jammu & Kashmir which caused frequent freshet of magnitude ranges 10000Cs to 22000Cs on 07/07/2011, 14/07/2011, 21/07/2011 and 25/07/2011 in Deg Nullah. The stream of flow hit the left Flood Embankment between Spurs which was controlled by using sand bags and Bamboos for support of sand bags against slipping. The situation continued till 10/08/2011.

On 12.08.2011, a freshet of High magnitude of about 30000 Cs occurred and attacked severely on shank and mole head Spurs No. 3 & 4. The stone aprons of Spurs were launched during the freshet which were restored later on.

### **FLOODS 2012:**

During the month August 2012, heavy rain falls occurred in Jammu & Kashmir which caused frequent freshet of magnitude ranges 10000Cs to 21000Cs on 01/08/2012 and 24/08/2012 in Deg Nullah. The stream of flow changed its course from left Flood Embankment to its old creeks due to construction of 04 Nos, Spurs in reach RD 7+500 to 9+500.

### **FLOODS 2013:**

During the July – August 2013, Heavy rainfalls were occurred which caused frequent freshet in Deg and Aik Nullah. On 20/07/2013, 02/08/2013 & 09/08/2013, a freshet of High magnitude of about 26889, 26889 & 29783 Cs passed through Deg Nullah. On 20/07/2013, 15/08/2013 & 16/08/2013, a freshet having discharge magnitude of about 33024, 40711 & 40711 Cs passed through Aik Nullah. The spill water accumulated along left bank of MR Link Canal RD 104+000 to RD 305+000/L & BRBD Link Canal RD 10+000 to 111+000/L.

Water came due to heavy rain fall in the catchment areas of Nullahs in India occupied Jammu & Kashmir. The water spilt out from the banks of these Nullahs. This water hit MR Link Canal on left bank. A part of this water passed through the Sypons and Inlets upto their design capacities and balance was accumulated along

left banks, thereby damaging the crops, properties and even human lives. This inundation urged the inhabitants to cut the bank of the canal at their own. This practice is reported when this water touches BRBD Link Canal on its left bank.

### **FLOODS 2014:**

During the month of September 2014, heavy rainfalls occurred which caused frequent freshet in Deg and Aik Nullah. On 05/09/2014 & 06/09/2014 a freshet of High magnitude of about 75102 Cs passed through Deg Nullah. On 05/09/2014 & 06/09/2014 and a freshet having discharge magnitude of about 25296 & 44386 Cs passed through Aik Nullah. The spill water accumulated along left bank of MR Link Canal RD 117+000 to RD 304+000/L & BRBD Link Canal RD 10+000 to 164+000/L. The Zimindars of the area made cuts from RD.117+000 to RD 304+000/L of MR Link Canal and RD 10+000 to 164+000/L of BRBD Link Canal for the drain off flood / rain water into Canals.

### **FLOOD 2015:**

A spell of heavy rainfall in catchment area of Deg Nullah started in 2<sup>nd</sup> week of July 2015 and flow began increase gradually. Hence rainfall and un precedent freshet occurred which caused frequent flood having high magnitude about 33329 Cs on 10.07.2015 in Deg Nullah.

Due to meandering action of flow of Nullah, change its behavior abruptly, erosion along left embankment between RD. 11+600 to 11+950 started due to parallel flow in some length. The magnitude and velocity was too high that hit the spur RD. 7+000/L and launched/damaged the apron of said spur.

Afterwards the freshet trend developed toward just U/S Hanjli Bridge, it caused launched /damaged. The pitching and apron of flood protection bund and guide bank of bridge which was protected by dumping of stone on war footed basis. The situation had been controlled with engineering solution & instructions of higher officers.

### **FLOOD 2016:**

Exceptionally high flood of about 38127 Cs passed through Aik Nullah on 27-07-2016 at 09:00 P.M. The discharge at Ura bridge was 596 Cs on 27-07-2016 at 02:00 P.M, gauge abruptly rose 16 ft within 4 hours and discharge passed through Nullah was 28651 Cs at 06:00 P.M against the capacity of 25000 Cs. In next 3 hours, the discharge in Aik Nullah rose to 38127 Cs at 09:00 P.M. and became into

exceptionally high flood, resultantly the Nullah over topped in some reaches and breached at R.D 149+500/L in city area due to highest H.F.L attained.

A parallel flow along right side on Haji Pura flood Protection Bund was seriously observed during exceptionally high flood and eroded some patches of protection wall. A serious erosion occurred at R.D 135-136 resultantly brick wall in a length of 130 ft on Haji Pura Bund was collapsed and other eroded sites were controlled by placing the sand bags and bushing.

A series of breaches occurred D/S Daska Road Bridge where the work was not taken up due to complication of land issue.

Similarly freshet of high magnitude of about 35102 Cs passed through Deg Nullah on 27.07.2016 at 07:00 PM. The freshet safely passed upto Choor Bridge but breaches occurred on left side on D/S Choor bridge. The water accumulated along left bank of M.R Link Canal and a part of this water passed through syphons and inlets upto design capacity. Resultantly the spilled over water accumulated along left bank of BRBD Link Canal at RD.92+000 to 120+000 after passing through M.R Link Canal. All inlets were opened and operational on 27.07.2016 before receipt of flood.

#### **FLOOD 2017 ON AIK NULLAH:**

Aik Nullah is widened upto 160 ft and banks are constructed on both sides of the Nullah upto Bridge RD.102+990 which is also to be widened under the Flood Protection of Sialkot Against Aik & Palkhu Nullah project. There is a gap of about 100 ft on the left side of under construction embankment due to the graveyard of Christian community. On the morning of 1st August, 2017, flood was received in Aik Nullah at this point i.e. RD.103+000 and water spilled over through this gap, where the bank has not yet been constructed at site as the Irrigation Department is engaged with the Christian Community for shifting of the graves. Now, the spilled water is flowing along the periphery of village Ismail Awan and will ultimately opt its natural route and cross the siphon of MR Link. No damage was observed at site. Ample machinery and manpower was available to fill the gap without loss of time.

#### **FLOOD 2017 ON DEG NULLAH:**

During flood 2017, the situation of Deg Nullah remained normal and maximum discharge recorded at Kingra road Bridge was 21597 Cs on 09-08-2017.

During the first week of September 2017, heavy rainfalls occurred in occupied Kashmir and upper & Northern parts of the Punjab due to collision of monsoon and western seasonal low pressure coming from Behra-e-Arab which

caused frequent freshets in Deg Nullah on 01-09-2017. A freshet having magnitude of about 17233 Cs observed in Deg Nullah. The stream of flow changed its behavior abruptly and hit main embankment on right side in between RD.5+000 to 6+000 U/S Choor Bridge and eroded the Nullah side slope of Bank upto top edge in length of 300 ft which was protected by launching the trees and sand bags on war footed basis to safe the abadies i.e. village Jatoke & Kotli etc agricultural land, infrastructures and matured valuable crops as temporary solution.

### **FLOOD 2017 ON PALKHU NULLAH:**

The Palkhu is a natural Nullah which originates from the hilly catchment area across the border and enters in Pakistan territory from occupied Jammu & Kashmir near Vains village in the East of Sialkot city. The design Discharge of Nullah is 1000 Cs, but maximum observed Discharge on 06 Sept- 2014 was 3031 Cs. During flood 2017 maximum recorded discharge was 3070 Cs on 02-08-2017. ADP scheme namely "flood protection of Sialkot against Aik & Palkhu Nullah" is in progress. The widening of channel upto design parameters has almost been completed. Flood water overtopped between RD.216-217/L but was controlled on the same day. No significant loss was observed in any kind.

### **FLOOD 2018 IN DEG NULLAH:**

On 30-06-2018, a freshet having magnitude of about 6848 Cs was observed in Deg Nullah. The flood water hit main embankment on right side and started eroding the site which was protected by dumping stone from reserve stock of stone after getting approval from the competent authority on war footing basis to save the abadies i.e. village Jatoke & Kotli etc agricultural land infrastructures and matured valuable crops as temporary solution. Keeping in view the above situation, the competent authorities were approved the construction of three 3 No. spurs for protecting the site which have been constructed at site and now the site is safe.

## Flood 2019 IN DEG NULLAH:

A freshet of 12200 Cs hit the Right embankment of Deg Nullah RD. 5-6 Right on 17-08-2019 and caused serious erosion between spur No. 1 and 2. The flood fighting was done by launching of trees bamboos and plastic bags to save the embankment. Further stone pitching is proposed by expert committee as a permanent solution.

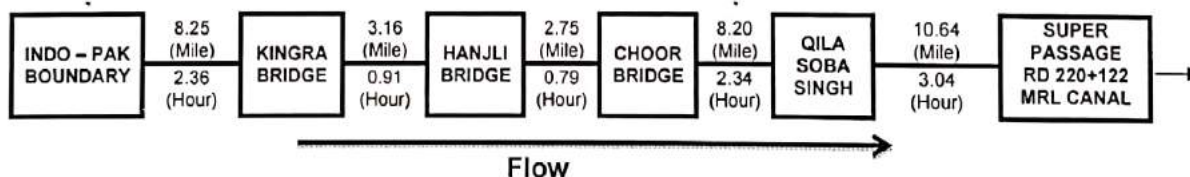
## Chapter # 4.

Designed data, Historic peak flood data and previous five years flood data of Head works /Barrages and or other control points.

### 4.1 Flood Limits of Nullahs (in Cusecs)

| SITE                                   | LOW   | MEDIUM               | HIGH                 | VERY HIGH            | EXCEPTIONALLY HIGH     |
|----------------------------------------|-------|----------------------|----------------------|----------------------|------------------------|
| DEG NULLAH<br>at Kingra Road<br>Bridge | 10000 | 10000<br>to<br>15000 | 15000<br>to<br>22000 | 22000<br>to<br>30000 | 0.30000<br>to<br>above |
| AIK NULLAH<br>at Ura Bridge            | 2000  | 9000                 | 13000                | 16000                | 33000                  |

### 4.2 - TIME LAG OF FLOODS DEG NULLAH



| Sr. # | Description | Reach                                                 | Length (Mile) | Time Lag (Hour) |
|-------|-------------|-------------------------------------------------------|---------------|-----------------|
| 1     | Deg Nullah  | Indo – Pak Boundary to Kingra Bridge                  | 8.25          | 2.36            |
| 2     | Deg Nullah  | KINGRA BRIDGE to HANJLI BRIDGE                        | 3.16          | 0.91            |
| 3     | Deg Nullah  | HANJLI BRIDGE to CHOOOR BRIDGE                        | 2.75          | 0.79            |
| 4     | Deg Nullah  | CHOOOR BRIDGE to QILA SOBA SINGH                      | 8.20          | 2.34            |
| 5     | Deg Nullah  | QILA SOBA SINGH to SUPER PASSAGE RD 220+122 MRL CANAL | 10.64         | 3.04            |

### 4.3 HIGHEST FLOODS

| YEAR | DISCHARGE AT CONTROL POINTS (IN CUSEC) |                                       |                             |                                                       |                                                        |                                  |
|------|----------------------------------------|---------------------------------------|-----------------------------|-------------------------------------------------------|--------------------------------------------------------|----------------------------------|
|      | AIK NULLAH AT URA BRIDGE               | Aik Nullah at Super Passage RD.90+190 | DEG NULLAH AT KINGRA BRIDGE | DEG NULLAH AT SUPER PASSAGE R.D 220+122 MR LINK CANAL | DEG NULLAH AT SUPER PASSAGE R.D 104133 BRBD Link Canal | Palkhu Nullah at Top Khana Pully |
| 2007 | 10293 Cs                               |                                       | -                           | 16036 Cs                                              |                                                        |                                  |
| 2008 | 4752 Cs                                |                                       | -                           | 16709 Cs                                              |                                                        |                                  |
| 2009 | 2826 Cs                                |                                       | -                           | 14217 Cs                                              |                                                        |                                  |
| 2010 | 7793 Cs                                |                                       | 42000 Cs                    | 15799 Cs                                              |                                                        |                                  |
| 2011 | 19506 Cs                               |                                       | 29783 Cs                    | 9015 Cs                                               |                                                        |                                  |
| 2012 | -                                      |                                       | 20515 Cs                    | 4528 Cs                                               |                                                        | -                                |
| 2013 | 40711 Cs                               |                                       | 29783 Cs                    | 11792 Cs                                              |                                                        |                                  |
| 2014 | 44386 Cs                               |                                       | 75102 Cs                    |                                                       |                                                        |                                  |
| 2015 | 9157 Cs                                |                                       | 33329 Cs                    | 11792 Cs                                              | 7400 Cs                                                | 541 Cs                           |
| 2016 | 38127 Cs                               |                                       | 35948 Cs                    | 13215 Cs                                              |                                                        | -                                |
| 2017 | 6794 Cs                                |                                       | 21597 Cs                    | 13230 Cs                                              |                                                        | 3070 Cs                          |
| 2018 | 8012 Cs                                |                                       | 19170 Cs                    | 8091 Cs                                               |                                                        | 1266 Cs                          |

### 4.4 Peak Discharges

| YEAR | DISCHARGE AT CONTROL POINTS (IN CUSEC) * |                             |               |                                                       |
|------|------------------------------------------|-----------------------------|---------------|-------------------------------------------------------|
|      | AIK NULLAH AT URA BRIDGE                 | DEG NULLAH AT KINGRA BRIDGE | Palkhu Nullah | DEG NULLAH AT SUPER PASSAGE RD. 220+122 MR LINK CANAL |
| 2007 | 10293 Cs                                 | -                           |               | 16036 Cs                                              |
| 2008 | 4752 Cs                                  | -                           |               | 16709 Cs                                              |
| 2009 | 2826 Cs                                  | -                           |               | 14217 Cs                                              |
| 2010 | 7793 Cs                                  | 42000 Cs                    |               | 15799 Cs                                              |
| 2011 | 19506 Cs                                 | 29783 Cs                    |               | 9015 Cs                                               |
| 2012 | 2429 Cs                                  | 20515 Cs                    |               | 4528 Cs                                               |
| 2013 | 40711 Cs                                 |                             |               | 11792 Cs                                              |
| 2014 | 44386 Cs                                 | 75102 Cs                    |               |                                                       |
| 2015 | 9157 Cs                                  | 33329 Cs                    | 541 Cs        | 11792 Cs                                              |
| 2016 | 38127 Cs                                 | 35948 Cs                    | -             | 13215 Cs                                              |
| 2017 | 6794 Cs                                  | 21591 Cs                    | 3070 Cs       | 13230 Cs                                              |
| 2018 | 8012 Cs                                  | 19170 Cs                    | 1266 Cs       | 8091 Cs                                               |
| 2019 | 3540 Cs                                  | 11000 Cs                    | 888 Cs        | 6513 Cs                                               |

## Chapter # 5.

### **FLOOD FIGHTING STRATEGY** **FLOOD FIGHTING STRATEGY AT DIFFERENT LIMITS OF AIK,**

#### **PALKHU & DEG NULLAH:**

A HEAVY FLOOD is expected in Nullah Aik, Palkhu & Deg. Strict watching arrangement will be started by 15<sup>th</sup> June 2020 according to the scale fixed by the department as per this flood fighting plan. The pre-flood arrangements necessarily required are given below.

#### **STAGE-I**

##### **i. Low Flood:-**

| Deg Nullah | Aik Nullah | Palkhu Nullah |
|------------|------------|---------------|
| 10000 cs   | 2000 cs    | 2500 cs       |

When river discharges ranges between these limits, watching establishment shall be deploy for two shifts in a day. Sub Engineer, concerned will supervise the entire watching operation. Sub Divisional Officer concerned will act as the officer in-charge of watching operation.

#### **STAGE-II**

##### **ii. Medium Floods.**

| Deg Nullah     | Aik Nullah   | Palkhu Nullah |
|----------------|--------------|---------------|
| 10000-15000 cs | 2000-9000 cs | 2500-3100 cs  |

Supervisory staff will be same as in stage-I.

#### **Stage-III**

##### **iii. High Floods**

| Deg Nullah     | Aik Nullah    | Palkhu Nullah |
|----------------|---------------|---------------|
| 15000-30000 cs | 9000-16000 Cs | 3100-5000 cs  |

Supervisory staff will be same as in stage-I. But Excavators, Front blade tractor would be hired to control the situation.

#### **Stage-IV**

##### **iv. Exceptional High floods.**

| Deg Nullah     | Aik Nullah     | Palkhu Nullah |
|----------------|----------------|---------------|
| Above 30000 Cs | Above 16000 Cs | Above 5000 Cs |

- Watching establishment would be increased from 1<sup>st</sup> Three stage as per requirement. Similarly Machinery deployment would be accordingly.

## CHAPTER # 6.

### FLOOD DAMAGES RESTORATION WORKS

#### LIST OF WORK EXECUTED DURING THE YEAR 2018-19 UNDER THE HEAD OF A13501-EMBANKMENTS:

| Sr. # | Name of work                                                                                                                                   | Amount in Million | Date of Start | Date of Completion |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|--------------------|
| 1     | Repairing flood Protection Bund along Deg Nullah left & right and maintaining ramps U/S Kingra & choor bridge.                                 | 19.495            | 11-05-2019    | 15-06-2019         |
| 2     | Strengthening of right Bank of Aik Nullah reach rd. 88+000 /R                                                                                  | 2.98              | 12-06-2019    | 17-06-2019         |
| 3     | Strengthening of Right Protection bund along Deg Nullah U/S hanjli Bridge between RD. 15+000 to Rd. 17+000 (work executed under 2.89 PWD Code) | 10.356            | 09-08-2019    | 15-09-2019         |

All the above works were completed well intime and will remain safe during flood season 2018-19.

#### DAMAGES OCCURRED DURING FLOOD SEASON 2018-19

A freshet of 12200 Cs hit the Right embankment of Deg Nullah RD. 5-6 Right on 17-08-2019 and caused serious erosion between spur No. 1 and 2. The flood fighting was done by launching of trees bamboos and plastic bags to save the embankment. Further stone pitching is proposed by expert committee as a permanent solution. The estimates is prepared on the recommendation of departmental expert committee and the work will be executed before coming flood season after following all codal formalities.

## CHAPTER # 7.

### FLOOD FIGHTING WATCHING ARRANGEMENT

#### 7.1 Pre- Flood Arrangements:

All the bunds are inspected by a Committee constituted by the Secretary to Government of the Punjab, Irrigation Department in May of every year. Besides condition of bunds, other flood infrastructure i.e. painting of gauges, data board and RD marks conditions are also inspected by the committee which are very important to monitor the flood and to locate of any damages occurred during flood. Inspection of all bunds and spurs by the Team of Military personals is also carried out before the flood season to ensure that the bunds are safe against the coming flood season.

To provide swift and disposal of any information related to flood situation in order to intimate prompt action, Gauge readers are appointed at Kingra Bridge, Hanjli Bridge and R.D 220+122 Deg Rest House at Deg Nullah, Ura Bridge RD.163+150, Daska Road Bridge RD.97+000 at super passage of M.R. Link Canal at Aik Nullah and Palkhu Nullah at RD 228+400 Askri Colony Bridge. Camps are established on all vulnerable sites to monitor the situation during flood season. Cell Phones are provided and generator sets are installed at important / vulnerable reaches. The flood watching material is procured and shifted to the camp sites.

Keeping in new the possibility of receiving floods, precautionary measures have to be taken from 1<sup>st</sup> July to 15<sup>th</sup> October. Watching Establishment is employed for the flood season as per limits of flood already fixed for various magnitude of Discharge in Deg, Aik Nullah & Palkhu Nullah.

#### Additional Information

##### CONSOLIDATE STATUS OF RESERVE STOCK OF STONE

| Sanctioned reserve stock of limit | Available Quantity (Lac Cft) | Deficient Balance quantity | Remarks.                                         |
|-----------------------------------|------------------------------|----------------------------|--------------------------------------------------|
| 2.000                             | 0.46200                      | 1.53800                    | Funds has been demanded from competent authority |

### Detail Of Reserve Stock of Stone

| Sr. #                                    | Name of Site / Location                                   | Minimum requirement i.e. 70% | Sanctioned Limit | Available Quantity | Remarks                                                                                                                                                                                              |
|------------------------------------------|-----------------------------------------------------------|------------------------------|------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flood Protection along Deg Nullah</b> |                                                           |                              |                  |                    |                                                                                                                                                                                                      |
| 1                                        | Left Flood protection bund choor Bridge to Kingra Bridge  | 0.4865                       | 0.695            | 0                  | The funds amounting to Rs. 3.8 Million is received against 6.2 Million required amount for procurement of remaining stone 0.73 Lac . However the procedure of procurement of stone is under process. |
| 2                                        | Right flood protection bund choor Bridge to Kingra Bridge | 0.21                         | 0.300            | 0                  |                                                                                                                                                                                                      |
| 3                                        | Right flood protection bund U/S Kingra Bridge             | 0.2625                       | 0.375            | 0                  |                                                                                                                                                                                                      |
| 4                                        | Left flood protection bund U/S Kingra Bridge              | 0.21                         | 0.300            | 0.21915            |                                                                                                                                                                                                      |
| 5                                        | 21 No. Spurs of 200 ft length (21x200)                    | 0.231                        | 0.330            | 0.24270            |                                                                                                                                                                                                      |
| <b>Total Quantity</b>                    |                                                           | <b>1.4</b>                   | <b>2.000</b>     | <b>46185</b>       |                                                                                                                                                                                                      |

## **7.2 Watching Establishment**

In view of possibility of receiving timely flood warnings, precautionary measures have to be taken from 1<sup>st</sup> July to 15<sup>th</sup> October, every year. The watching establishment is employed for the flood season as per limits of floods already fixed for various magnitude of discharge in the Nullahs i.e. Aik Nullah and Deg Nullah. In case the flood is not received, the establishment will be utilized in filling rain cuts etc.

## **7.3 Arrangement at Sensitive Sites**

Camps are established on all vulnerable sites to monitor the situation during flood season. Cell Phones are provided and generator sets are installed at important /vulnerable reaches. The flood watching material is procured and shifted to the camp sites. To provide swift acquisition and disposal of any information related to flood situation in order to intimate prompt action, Gauge readers are appointed at Kingra Bridge, Hanjli Bridge and R.D 220+122 Deg Rest House. Keeping in view the possibility of receiving floods, precautionary measures have to be taken from 1<sup>st</sup> July to 15<sup>th</sup> October. Watching Establishment is employed for the flood season as per limits of flood already fixed for various magnitude of Discharge in Deg & Aik Nullah.

## 7.4 WATCHING MATERIAL

• Statement showing flood emergency stores at different camps

| Sr# |                           | unit | AIK NULLAH            |                                      |                    |                   |                          |                    |                          |                            | PALKHU NULLAH            |               |                 |                   | DEG NULLAH |      | TOTAL REQUIRED | AVAILABLE AT SITE | BALANCE REQUIRED |
|-----|---------------------------|------|-----------------------|--------------------------------------|--------------------|-------------------|--------------------------|--------------------|--------------------------|----------------------------|--------------------------|---------------|-----------------|-------------------|------------|------|----------------|-------------------|------------------|
|     |                           |      | Ura Bridge RD.163+150 | RD.132+500 Staikot Daska Road Bridge | RD.118-119/L Miani | RD.111-112 Nagoor | MR Link-Canal RD.220-122 | Village Bhopalwali | Syphon RD.47+075 MR Link | RD.213-214 Chitti Sheikhan | RD.228+400 Askari Bridge | D/UCC TO SIAL | At Hanji Bridge | U/S Kingra Bridge |            |      |                |                   |                  |
| 1   | 2                         | 3    | 4                     | 5                                    | 6                  | 7                 | 8                        | 9                  | 10                       | 11                         | 12                       | 13            | 14              | 15                | 16         | 17   |                |                   |                  |
| 1   | Nylon bags                | No.  | 2000                  | 2000                                 | 1000               | 2000              | 1000                     | 1000               | 1000                     | 1000                       | 1000                     | 1000          | 5000            | 5000              | 23000      | 5000 | 18000          |                   |                  |
| 2   | Bamboos or Ballies        | No.  | 100                   | 100                                  | 200                | 200               | 200                      | 100                | 200                      | 100                        | 100                      | 100           | 500             | 500               | 2400       | 90   | 2310           |                   |                  |
| 3   | Kassis with handles       | No.  | 10                    | 10                                   | 10                 | 10                | 10                       | 10                 | 10                       | 10                         | 10                       | 10            | 4               | 4                 | 104        | -    | 108            |                   |                  |
| 4   | Toot Basket               | No.  | 10                    | 10                                   | 10                 | 10                | 10                       | 10                 | 10                       | 10                         | 10                       | 10            | -               | -                 | 100        | -    | 100            |                   |                  |
| 5   | Axes                      | No.  | 2                     | 2                                    | 2                  | 2                 | 2                        | 2                  | 2                        | 2                          | 2                        | 2             | -               | -                 | 20         | -    | 20             |                   |                  |
| 6   | Hand saw                  | No.  | 1                     | 1                                    | 1                  | 1                 | 1                        | 1                  | 1                        | 1                          | 1                        | 1             | -               | -                 | 10         | -    | 10             |                   |                  |
| 7   | Torches                   | No.  | 10                    | 10                                   | 10                 | 10                | 10                       | 10                 | 10                       | 10                         | 10                       | 10            | -               | -                 | 100        | -    | 100            |                   |                  |
| 8   | Cells for Torches         | No.  | 50                    | 50                                   | 50                 | 50                | 50                       | 50                 | 50                       | 50                         | 50                       | 50            | -               | -                 | 500        | -    | 500            |                   |                  |
| 9   | Sootli                    | Kg   | 10                    | 10                                   | 10                 | 10                | 10                       | 10                 | 10                       | 10                         | 10                       | 10            | -               | -                 | 100        | -    | 100            |                   |                  |
| 10  | Shouldari                 | No.  | 1                     | 1                                    | 1                  | 1                 | 1                        | 1                  | 1                        | 1                          | 1                        | 1             | 2               | 2                 | 14         | -    | 14             |                   |                  |
| 11  | Needles                   | No.  | 12                    | 12                                   | 12                 | 12                | 12                       | 12                 | 12                       | 12                         | 12                       | 12            | -               | -                 | 144        | 1    | 143            |                   |                  |
| 12  | Generator set             | No.  | 1                     |                                      |                    | 1                 |                          |                    | 1                        |                            |                          |               | 1               | 1                 | 5          | 1    | 4              |                   |                  |
| 13  | Nylon Rope                | Kg   | 50                    | 50                                   | 50                 | 50                | 50                       | 50                 | 50                       | 50                         | 50                       | 50            | -               | -                 | 500        | -    | 500            |                   |                  |
| 14  | Umerila                   | No.  | 2                     | 2                                    | 2                  | 2                 | 2                        | 2                  | 2                        | 2                          | 2                        | 2             | 2               | 2                 | 22         | -    | 22             |                   |                  |
| 15  | Rain coat                 | No.  | 3                     | 3                                    | 3                  | 3                 | 3                        | 3                  | 3                        | 3                          | 3                        | 3             | 3               | 3                 | 33         | -    | 33             |                   |                  |
| 16  | Pitching Stone            | Cft  | -                     | -                                    | -                  | -                 | -                        | -                  | -                        | -                          | -                        | -             | -               | -                 | -          | -    | -              |                   |                  |
| 17  | Water Cooler              | No.  | 1                     | 1                                    | 1                  | 1                 | 1                        | 1                  | 1                        | 1                          | 1                        | 1             | 1               | 1                 | 14         | -    | 14             |                   |                  |
| 18  | Electric Chargeable light | No.  | 3                     | 3                                    | 3                  | 3                 | 3                        | 3                  | 3                        | 3                          | 3                        | 3             | 3               | -                 | 33         | -    | 33             |                   |                  |
| 19  | Search Lights             | No.  | -                     | -                                    | -                  | -                 | -                        | -                  | -                        | -                          | -                        | -             | -               | -                 | -          | -    | -              |                   |                  |
| 20  | Rod                       | No.  | -                     | -                                    | -                  | -                 | -                        | -                  | -                        | -                          | -                        | -             | -               | -                 | -          | -    | -              |                   |                  |

### **7.5 Arrangement for Sounding & Probing:**

All the necessary equipment for Sounding and Probing has been arranged.

### **7.6 Lighting Arrangement:**

Lighting accessories have also been arranged at Camp Site.

### **7.7 Ration Arrangement:**

District Administration is responsible for making Ration arrangements for evacuated people.

### **7.8 POL Arrangement for Vehicle:**

H.S Diesel and Petrol for Vehicles will be ensured through District Administration during flood days in case of any emergency.

### **7.9 Transportation:**

Transportation will be arranged locally.

### **7.10 Law and Order:**

Maintenance of Law and Order is the responsibility of District Administration.

### **7.11 Medical Arrangement for Labour:**

Medical arrangements for Labour are available in the vicinity i.e. Rural Health Center Zafarwal, Throo Mandi, Tehsil Headquarter Hospital Pasrur and District Headquarter Hospital Sialkot.

### **7.12 Liaison with other Department:**

Sub Divisional Officer Rawal Link Sub Division as Liaison Officer will constantly oblige the other departments about the flood situation.

### **7.13 Role of the Army:**

All necessary arrangements for evacuation of affected people will be done by Army.

### **7.14 Duties of Telephone Attendant:**

The Telephone Attendants will perform their Duty for 24 Hours during Flood Season at Divisional Office Sialkot on Telephone No.052 – 9250087.

### **7.15 Wireless Arrangements:**

No such arrangements are available in Pasrur Link Division. However, Flood situation would be conveyed to public through FM 101 and FM 104.

## CHAPTER # 8.

### DETAIL OF ENCROACHMENT

| Total No. of<br>Encroachment | Removed | Balance | Action to be taken |
|------------------------------|---------|---------|--------------------|
| Nil                          | Nil     | Nil     | Nil                |

## CHAPTER # 9.

### DUTY ROSTERS / FLOOD FIGHTING PROGRAM

| Sr. # | Officer/Official                                                    | Station/place of duty                       | Jurisdiction                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------|---------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Executive Engineer, Pasrur Link Division, Sialkot                   | Sialkot                                     | Executive Engineer, being overall in-charge of Pasrur Link Division with Headquarter at Sialkot, is responsible to look after flood bunds in his jurisdiction of Narowal and Sialkot Districts.                                                                                                                                                                                                                  |
| 2     | Sub Divisional Officer, Rawal Link Sub Division Sialkot             | Sialkot                                     | Inspection and checking of Flood protection works along Deg Nullah, Aik Nullah,                                                                                                                                                                                                                                                                                                                                  |
| 3     | Sub Divisional Officer, Baddomalhi Link Sub Division Deg Rest House | R.D. 220+122 M.R. Link Canal Deg Rest House | Inspection and checking of Flood protection works along Deg Nullah, MR Link Canal and Flood bunds along Deg Nullah in District Sialkot and Narowal                                                                                                                                                                                                                                                               |
| 4     | Sub Divisional Officer, Goraya Sub Division Daska                   | RD 19+750 BRBD Link Canal at Daska          | Sub Divisional Officer is in-charge of BRBD Link Canal from RD 0+500 to RD178+000 with his Headquarter RD 19+750 /L at Daska. Inlets have been constructed at RD 17-18/L, 25-26/L and RD 100-101/L. Sub Divisional Officer is responsible to drain out flood water accumulated along left bank of BRBD Link, Hasri Nullahs I and II cross BRBD Link Canal through Syphons of capacity 5000 cusec and 2500 cusec. |
| 5     | Sub Divisional Officer, Daska Drainage Sub Division Daska           | RD 19+750 BRBD Link Canal at Daska          | Inspection and checking of , Palkhu Nullah R.D 63+000 TO 264+000, Aik Nullah R.D 0+000 TO 96+500 out fall to M.R Link Canal and all Drains falls in the jurisdiction of Daska Drainage Sub Division.                                                                                                                                                                                                             |

Pasrur Link Division, Sialkot is responsible for the area falling in between Chenab River and Ravi River. The area comes under the sub humid zone and receives high precipitation. This area is not only affected by local rains but also receives flashy rainwater from across the Indo-Pak Border, which is sub mountainous region. The topography of the area is that water flows along the natural slope. i.e. from North-East to South-West. District Sialkot and Narowal are the revenue boundary in this area. Both the Districts are known due to their natural Nullahs namely, Palkhu, Aik, Deg, Basanter and Bein. Besides this, a number of natural Nullahs also receive flashy water from across the border i.e. occupied Jammu & Kashmir and create flood problems. These Nullahs are Neelwah, Dugri, Hasri, Ugh, Budhi, Turnah, Nikki Deg etc.

Marala Ravi Link Canal off-takes from Marala Head works situated on the Chenab River at about 15 miles north of Sialkot and extends in a southern direction towards its out-fall in Ravi River near Baddomalhi Town. The above said natural

Nullahs intercept the canal (as shown in the index plan attached) at a number of places where cross drainage facilities have been provided. The water after crossing M.R. Link through the cross drainage works inundates the area between UCC and BRBD Link Canal. Alarming condition is also faced along left bank of UCC and BRBD Link. The dangerous reaches along M.R. Link and BRBD Link are those where the cuts in the past have been observed. The Sub Divisional Officer, Rawal Link Sub Division, Sialkot and Baddomalhi Link Sub Division, are responsible for the safety of MR Link and the supervisory staff, which is headed by Sub Engineers (detail at page No.2-3). The Sub Divisional Officer, Goraya Sub Division, Daska is responsible for the safety of BRBD Link Canal from RD 0+500 to RD 178+000. The Sub Engineers under the control of the above said officers are also responsible to operate the inlets if the water levels in the canal allow the floodwater to enter in the canal.

4 No Flood Bunds along Aik Nullah namely City Flood Protection Bund, Mallah Chak Flood Protection Bund, Hajipura Flood Protection Bund and Flood Protection Bund at Ura have been constructed to protect Sialkot City, Sialkot Cantonment area and some villages. These Bunds will be under supervision of Sub Divisional Officer, Rawal Link Sub Division, Sialkot. Flood Protection Bunds along Deg Nullah from Kingra Road to Choor Bridge also falls in the jurisdiction of this Sub Division.

Two Marginal Bunds for training of Deg Nullah U/S of Super Passage RD 220+122 / MR Link and Flood Protection Bunds along Deg Nullah from village Dhir Pir Muhammad to Chak Raja are under the control of Sub Divisional Officer, Baddomalhi Link Sub Division with his headquarter at the junction point of Deg Nullah and MR Link Canal. This officer is responsible for the safety of these bunds. One Sub Engineer stationed at Deg Rest House to meet with any flood situation is deputed to assist the Sub Divisional Officer. Sub Divisional Officer Baddomalhi Link Sub Division is flood-controlling officer in this area and he will keep close contact with Flood Warning Center on Wireless set. The design data of these bunds has also been attached at page No.5.

On receipt of any flood warning from Flood Warning Center and provincial Disaster management Authority, the flood controlling officer i.e concerned sub divisional officer will inform immediately to the following: -

- 1- Executive Engineer, Pasrur Link Division, Sialkot
- 2- Executive Engineer, Chakbandi Division, Lahore.
- 3- Superintending Engineer, Link Circle, Lahore.
- 4- Chief Engineer, Irrigation Lahore Zone, Lahore.
- 5- Director Regulation Punjab, Lahore.
- 6- Chief Engineer, Drainage & Floods, Lahore.
- 7- Secretary to Govt. of the Punjab, Irrigation Department, Lahore.
- 8- District Police Officer, Sialkot
- 9- District Police Officer, Narowal.

The flood controlling office at Sialkot under the supervision of Flood Control Officer/ Sub Divisional Officer, Rawal Link Sub Division, Sialkot will inform Executive Engineers, Chakbandi Division, Lahore, and Marala Division Marala, Superintending Engineer, Link Circle Lahore, Chief Engineer, Irrigation, Lahore, Director Regulation, Flood Control Office of District Sialkot, Secretary, Irrigation Department, Punjab Lahore. Any un-wanted happening will be reported to the Executive Engineer, Pasrur Link Division, Sialkot and all others concerned promptly.

All necessary arrangements for evacuation of the effected people will be done by District Administration and Army. Health Department will have its own arrangements to provide medical aid at the spot. All other departments such as WAPDA, Communication and Works, Police and Administration would be requested for co-operation, if required by the staff of Pasrur Link Division, Sialkot so as to fight against the flood.

The detail of duty roster along with establishment at each vulnerable point under different flood stages is provided in chapter 13.

## CHAPTER #10

### EMERGENCY TELEPHONE NUMBERS

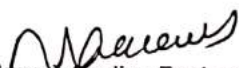
| Sr. No | Designation                                            | Phone Numbers                |              | Fax Number   |
|--------|--------------------------------------------------------|------------------------------|--------------|--------------|
|        |                                                        | Office                       | Mobile No.   |              |
| 1      | Secretary Irrigation Department, Punjab.               | 042-99212117<br>042-99212118 | 0304-0920033 | 042-9212116  |
| 2      | Chief Engineer, Irrigation, Lahore Zone, Lahore.       | 042-99212085<br>042-99212086 | 0301-8448709 | 042-9212084  |
| 3      | Chief Engineer, Drainage & Flood Zone, Lahore.         | 042-99230602                 | 0304-7261303 | 042-99230731 |
| 4      | Director Flood, Lahore                                 | 042-99230368                 | 0300-4777120 | -            |
| 5      | Superintending Engineer, Link Circle, Lahore.          | 042-99250310                 | 0301-8448709 | 042-99250308 |
| 6      | Executive Engineer Pasrur Link Division Sialkot.       | 052-9250088                  | 0300-6421863 | 052-9250089  |
| 7      | Executive Engineer Flood Bund Division Narowal.        | 0524-412374                  | 0323-4443607 | 054-2411685  |
| 8      | Executive Engineer Marala Division U.C.C. Marala.      | 052-3502102                  | 0346-6193760 | 052-3502120  |
| 9      | Executive Engineer, Gujranwala Division UCC Gujranwala | 055-9200199                  | 0300-9650355 | 055-9200326  |
| 10     | Deputy Commissioner Sialkot.                           | 052-9250451<br>052-9250452   | 0304-0920065 | 052-9250453  |
| 11     | Deputy Commissioner Narowal.                           | 0542-412500                  | 0304-0920067 | 054-2412075  |
| 12     | District Police Officer Sialkot.                       | 042-9250321<br>042-9250322   | 0308-7865550 | 052-9250323  |
| 13     | District Police Officer Narowal.                       | 054-2412800                  | 0303-666175  | 054-2412300  |
| 14     | Flood Warning Centre Lahore.                           | 042-99205371                 | -            | 042-99205372 |
| 15     | Canal Telegraph Office Sialkot.                        | 052-9250087                  | 0300-6421863 | 052-9250089  |
| 16     | Flood Control Centre, Flood Relief Officer Sialkot.    | 052-9250467                  | -            | -            |
| 17     | Meteorological Department Jail Road Lahore.            | 042-99200208<br>042-99200139 | 0300-8026286 | -            |
| 18     | Flood Emergency Cell, Relief Depts. Lahore.            | 042-9210556                  | -            | 042-9210555  |
| 19     | Provincial Flood Control Room Lahore.                  | 042-99203302                 | -            | -            |
| 20     | Duty Forecasting Officer Lahore.                       | 042-7572094                  | -            | -            |
| 21     | Div. Headquarters (Army) Sialkot.                      | 052-5713227<br>052-5713127   | -            | -            |
| 22     | Headquarter Engineers 30-Corps Gujranwala Cantt.       | 055-2692350                  | -            | -            |
| 23     | 11-Engineers Battalion Sialkot Cantt.                  | 052-5715186                  | -            | -            |
| 24     | 23-Engineers Battalion                                 | 052-5715184                  | -            | -            |
| 25     | Police Control Sialkot.                                | 92-50335<br>92-50338         | -            | -            |
| 26     | Army Flood Emergency Gujranwala.                       | -                            | -            | -            |
| 27     | PDMA Sialkot.                                          | 052-9250011                  | 0321-7281003 | -            |

## CHAPTER # 11. STANDARD OPERATING PROCEDURE (SOP) FOR BREACHING SECTIONS

There is no Breaching Section in Pasrur Link Division, Sialkot.

| Sr. # | Description                                                                       | Action Plan |
|-------|-----------------------------------------------------------------------------------|-------------|
| 11.1  | History of the Breaching Section                                                  | N.A         |
| 11.2  | Location, Design, quantity and variety of the explosion required for detonation   | N.A         |
| 11.3  | Arrangement of explosives and security of explosive stores                        | N.A         |
| 11.4  | List of the security staff with detail of their training etc.                     | N.A         |
| 11.5  | Detail of mechanical means as a standby arrangement in case of detonation failure | N.A         |
| 11.6  | Duty Roster in case of critical situation                                         | N.A         |
| 11.7  | Breaching Committee with their action plan                                        | N.A         |
| 11.8  | List of the villages likely to be inundated in case of breach                     | N.A         |
| 11.9  | Announcement and details of evacuation arrangements                               | N.A         |
| 11.10 | Details of coordination with civil, army authorities                              | N.A         |
| 11.11 | Parallel communication arrangements                                               | N.A         |
| 11.12 | Index Plan                                                                        | N.A         |

  
Executive Engineer,  
Pasrur Link Division,  
Sialkot.

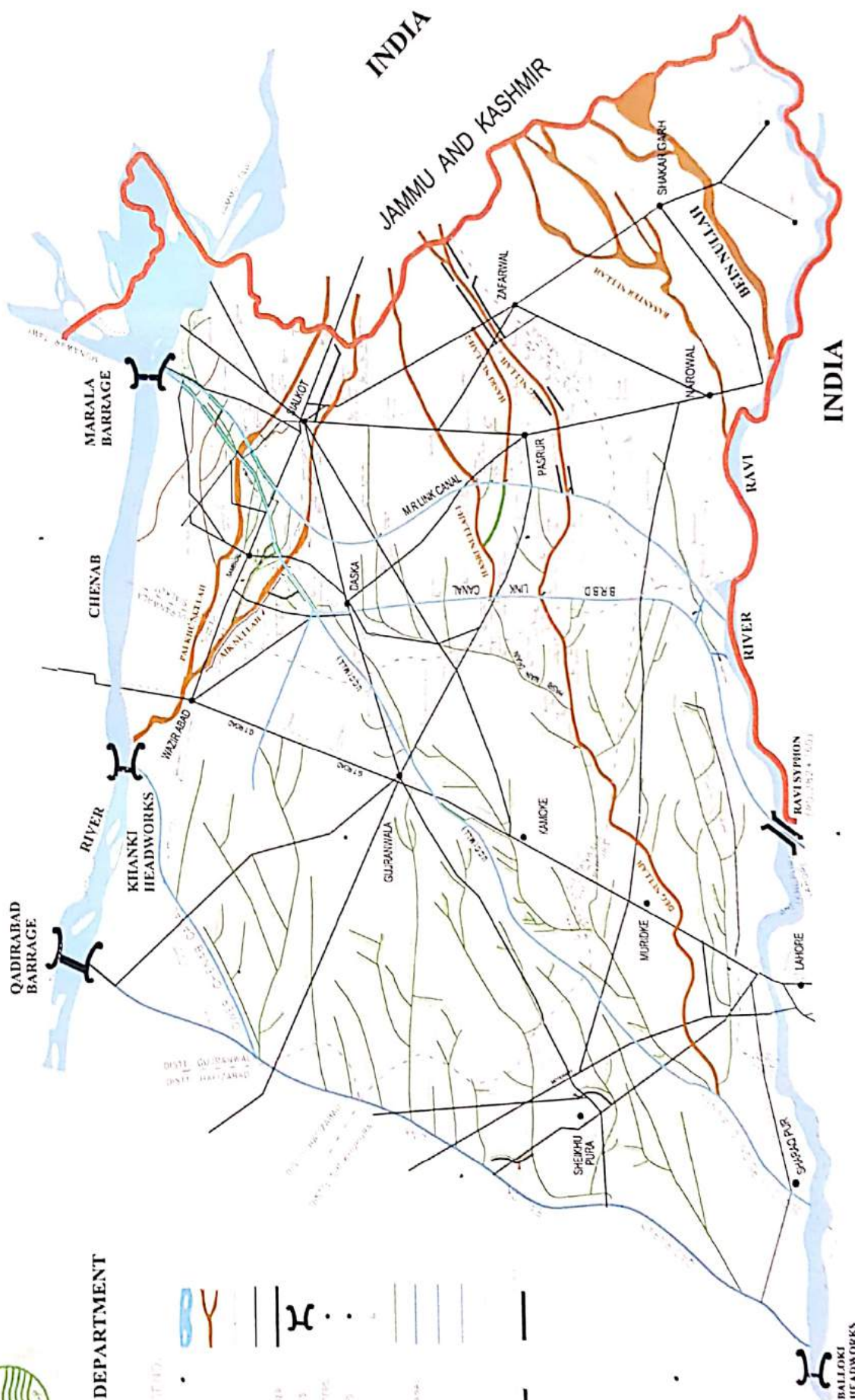
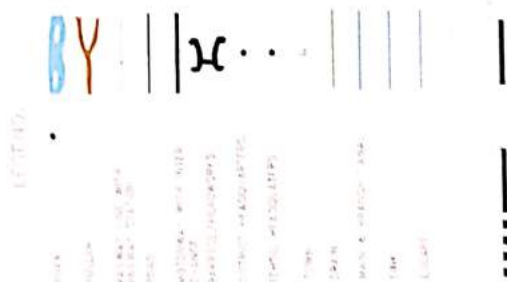
  
Superintending Engineer,  
Link Circle, Lahore.

  
Chief Engineer,  
Irrigation Lahore Zone,  
Lahore.

# NATURAL NULLAH & DRAINS PASRUR LINK DIVISION SIALKOT.



IRRIGATION DEPARTMENT



10

# PART-B

## PART - B

### Chapter # 12.

#### Vulnerable Sites on Flood Bunds / Structures

##### Site # 1 (Deg Nullah):

- i). Left Flood Protection Bund along Deg Nullah Down stream Hanjli Bridge. **Annexure-A1**
- ii). Left Flood Protection Bund along Deg Nullah upstream kingra Bridge on Deg Nullah **Annexure-A2**

##### Site # 2 (Aik Nullah):

- i. Ura Bridge RD.163+150 to166+000/L&R. **Annexure-B1**
- ii. Sialkot Daska Road Bridge RD.132+500. **Annexure-B2**
- iii. Village Buttar & Miani RD.118-119/L. **Annexure-B3**
- iv. Village Nagoor RD.111-112/L. **Annexure-B4**
- v. MR Link Canal RD 90+190 (Aik Super Passage). **Annexure-B5**
- vi. Village Bhopalwala RD 75-76. **Annexure-B6**

##### Site # 3 (Palkhu Nullah):

- i. Syphon RD.47+075 MR Link **Annexure-C1**
- ii. Dugri Nullah # 1 **Annexure-C2**
- iii. RD.213-214 Chiti Sheikhan. **Annexure-C3**
- iv. RD.228+400 Askari Bridge **Annexure-C4**

#### 12.1 Apprehended Breaches in Flood Bund / Structures:

Right Flood Protection Bund U/S Choor Bridge at RD.5+000 to RD.6+000.

#### 12.2 Operation of Breaching Sections:

There is no breaching section in Pasrur link division Sialkot

#### 12.3 Breaches due to rise of flood water, deterioration of flood bunds:

Right Marginal Bund along Deg Nullah U/S Super Passage at RD.220+122.

## CHAPTER # 13

### EMERGENCY CONTINGENCY PLAN FOR VULNERABLE SITE OF DEG NULLAH

Machinery Circle Lahore will be requested for deployment of Machinery as and when required in case of emergency.

#### Site No.1 (i):

Camp at Hanjli Bridge on Deg Nullah

#### **13.1 Plan showing route of flood water coming out of the breach supported with levels:**

Plan attached for vulnerable site No. 1 (Annexure – A1)

#### **13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:**

Hanjli, Said Pur, Kot Virk and Choor

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

##### **13.3.1 Arrangements**

All arrangements start on the onset of flood season.

##### **13.3.2 Establishment of Flood Fighting Camps**

Camp is established to monitor the situation and to provide any information related to the flood situation in order to intimate prompt action by the Officers.

##### **13.3.3 Duties of Officers / Officials and their Camp sites**

Incharge of the site is Naveed Virk Sub Divisional Officer, Rawal Link Sub Division and his contact No. is 0301-6623908. The name of in charge along with his establishment is given below: -

| Sr. # | CAMP SITE        | LOCATION   | INCHARGE OF SITE WITH ESTABLISHMENT                                                                 | CELL NO      |
|-------|------------------|------------|-----------------------------------------------------------------------------------------------------|--------------|
| 1     | At Hanjli Bridge | Deg Nullah | Muhammad Arshad<br>Sub Engineer<br>Beldars. = 15 No.<br>Gauge Reader = 03 No.<br>Chowkidar = 03 No. | 0300-6115311 |

**13.3.4 Departmental Machinery Available at Hanjli Bridge on Deg Nullah**

1 No. Tractor with Front Blade.

**13.3.5 Machinery Available From Private Source at Hanjli Bridge on Deg Nullah**

The earth moving machinery i.e. Excavator Machine=1 No. Tractor Trolley =4 No. and Tractor with front blade =1 No. will be made available from private source.

**13.3.6 & 13.3.7 Flood Fighting Material Required & Available For Vulnerable Site No.1 At Hanjli Bridge On Deg Nullah:**

| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

### 13.4 Detail of Other Infrastructure like Electric, Sui Gas, Telephone Installations, Road Network, Other Buildings, Canals and Drainage Network.

|                        |                          |
|------------------------|--------------------------|
| Electric Installation  | Yes                      |
| Sui Gas Installation   | No                       |
| Telephone Installation | Yes                      |
| Road Network           | Zafarwal – Chawinda Road |
| Buildings              | Government School        |
| Canals                 | No                       |
| Drainage Network       | No                       |

## CHAPTER # 13.

### EMERGENCY CONTINGENCY PLAN FOR VULNERABLE SITE OF DEG NULLAH

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required in case of emergency.

#### Site No.1 (ii):

Camp at upstream kingra Bridge on Deg Nullah

#### **13.1 Plan showing route of flood water coming out of the breach supported with levels:**

Plan attached for vulnerable site No. 2 (Annexure – A2)

#### **13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:**

Jandiala, Terah, Wadalah, Zafarwal, Khalil pur, padiari, sangha chak, baja pur etc.

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

##### **13.3.1 Arrangements**

All arrangements start on the onset of flood season.

##### **13.3.2 Establishment of Flood Fighting Camps**

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### **13.3.3 Duties of Officers / Officials and their Camp sites**

Incharge of the site is Naveed Virk Sub Divisional Officer, Rawal Link Sub Division and his contact No. is 0301-6623908. The name of in charge along with his establishment is given below: -

| Sr. # | CAMP SITE        | LOCATION   | INCHARGE OF SITE WITH ESTABLISHMENT                                                                 | CELL NO      |
|-------|------------------|------------|-----------------------------------------------------------------------------------------------------|--------------|
| 1     | At Hanjli Bridge | Deg Nullah | Muhammad Arshad<br>Sub Engineer<br>Beldars. = 15 No.<br>Gauge Reader = 03 No.<br>Chowkidar = 03 No. | 0300-6115311 |

**13.3.4 Departmental Machinery Available at upstream kingra Bridge on Deg Nullah**

1 No. Tractor with Front Blade.

**13.3.5 Machinery Available From Private Source at upstream kingra Bridge on Deg Nullah**

The earth moving machinery i.e. Excavator Machine=1 No. Tractor Trolley =4 No. and Tractor with front blade =1 No. will be made available from private source.

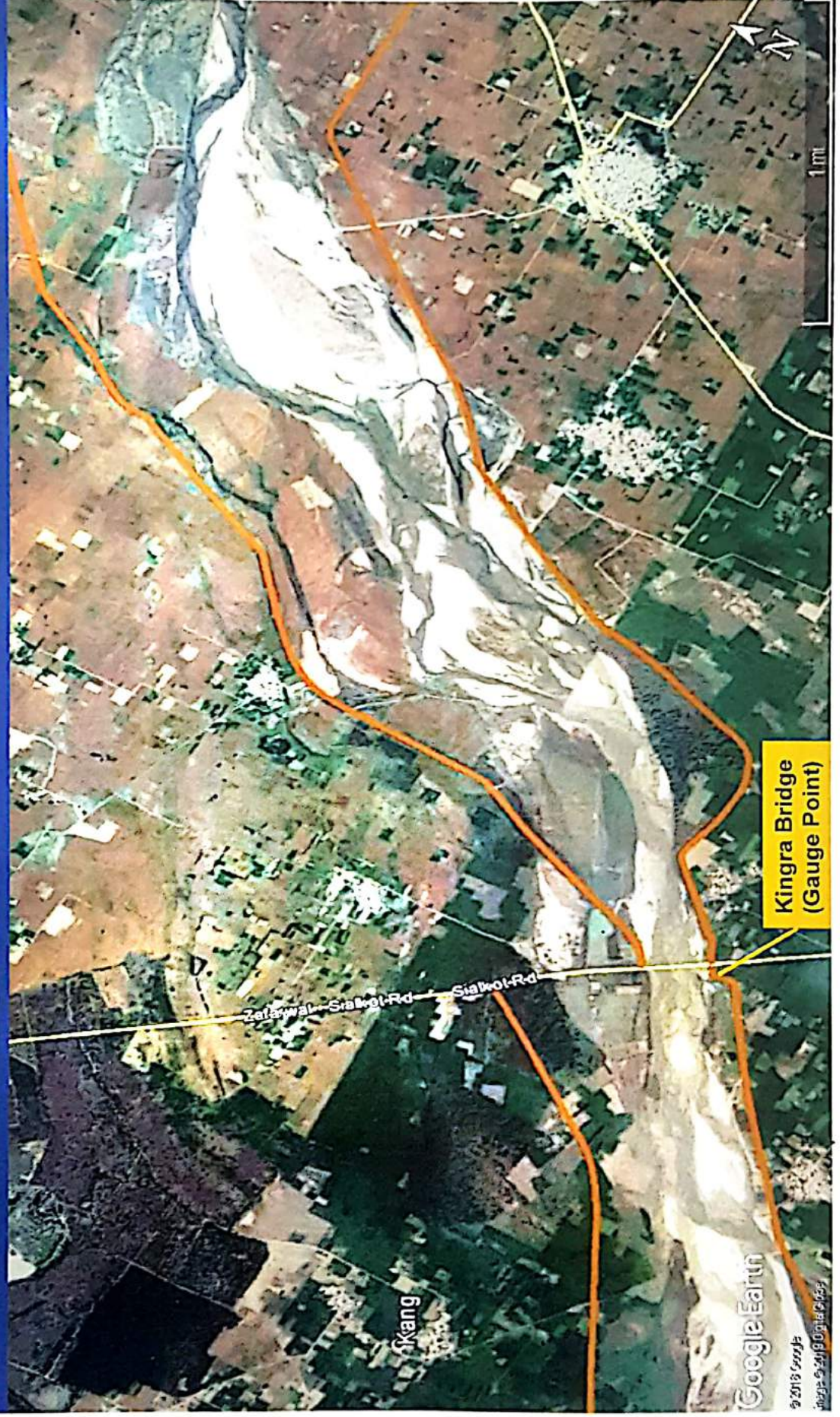
**13.3.6 & 13.3.7 Flood Fighting Material required & Available at Camp upstream kingra Bridge on Deg Nullah is as under:**

| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

### 13.4 Detail of Other Infrastructure like Electric, Sui Gas, Telephone Installations, Road Network, Other Buildings, Canals and Drainage Network.

|                        |                       |
|------------------------|-----------------------|
| Electric Installation  | Yes                   |
| Sui Gas Installation   | No                    |
| Telephone Installation | Yes                   |
| Road Network           | Sialkot-Zafarwal Road |
| Buildings              | Government School     |
| Canals                 | No                    |
| Drainage Network       | No                    |

**Vulnerable Site # 1 : ii- Left Flood Protection Bund along  
(Deg Nullah)  
Deg Nullah U/S Kingra Bridge**



40

**Vulnerable Site # 1: i- Left Flood Protection Bund along  
(Deg Nullah)  
Deg Nullah D/S Hanjli Bridge**



## Chapter # 13.

### Emergency Contingency Plan For Vulnerable Site Along Aik Nullah

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required in case of emergency.

#### Site No.2 (i):

Ura Bridge RD.163+150 to 166+000/L&R

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

Plan attached for vulnerable site No. 1 (Annexure – B1)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:

Ura, Haripur, Syedanwali, Ghopalpur etc.

#### 13.3 Strategy and action taken be explained in detail. This may include:

##### 13.3.1 Arrangements:

All arrangements start on the onset of flood season.

##### 13.3.2 Establishment of Flood Fighting Camps:

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites:

Incharge of the site is Naveed Virk Sub Divisional Officer, Rawal Link Sub Division and his contact No. is 0301-6623908. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE  | LOCATION   | INCHARGE OF SITE WITH ESTABLISHMENT                                                             | CELL NO      |
|-------|------------|------------|-------------------------------------------------------------------------------------------------|--------------|
| 1     | Ura Bridge | Aik Nullah | Fawad Akhtar<br>Sub Engineer<br>Beldars = 10 No.<br>Gauge Reader = 02 No.<br>Chowkidar = 02 No. | 0346-0407818 |

**13.3.4 Departmental Machinery Available at Ura Bridge**  
RD.163+150 to 166+000/L&R

1 No. Tractor with Front Blade.

**13.3.5 Machinery Available From Private Source at Ura Bridge**  
RD.163+150 to 166+000/L&R

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

**13.3.6 & 13.3.7 Flood Fighting Material Required & Available at camp of Village Ura Bridge at Aik Nullah.**

| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassisi with handles      | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

**13.4 Detail of Other Infrastructure like Electric, Sui Gas, Telephone Installations, Road Network, Other Buildings, Canals and Drainage Network.**

|                        |                     |
|------------------------|---------------------|
| Electric Installation  | Yes                 |
| Sui Gas Installation   | No                  |
| Telephone Installation | Yes                 |
| Road Network           | Sialkot Kingra Raod |
| Buildings              | Yes                 |
| Canals                 | No                  |
| Drainage Network       | No                  |

## Vulnerable Site # 2 : (Aik Nullah)

i- Ura Bridge RD 163+150 to 166+000/L&R



## Chapter # 13.

### Emergency Contingency Plan For Vulnerable Site Along Aik Nullah.

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required in case of emergency.

#### Site No.2 (ii):

Sialkot Daska Road Bridge RD.132+500

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

Plan attached for vulnerable site No. 2 (Annexure – B2)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:

Daburji Maliyan, Buttar, Paki Kotli, etc.

#### 13.3 Strategy and action taken be explained in detail. This may include:

##### 13.3.1 Arrangements:

All arrangements starts on the onset of flood season.

##### 13.3.2 Establishment of Flood Fighting Camps:

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites:

Incharge of the site is Naveed Virk Sub Divisional Officer, Rawal Link Sub Division and his contact No. is 0301-6623908. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE         | LOCATION   | INCHARGE OF SITE WITH ESTABLISHMENT                                     | CELL NO      |
|-------|-------------------|------------|-------------------------------------------------------------------------|--------------|
| 1     | Daska Road Bridge | Aik Nullah | Zafar Ahmad<br>Sub Engineer<br>Beldars. = 15 No.<br>Chowkidar. = 02 No. | 0302-6167381 |

**13.3.4 Departmental Machinery Available at Sialkot Daska Road Bridge RD.132+500**

1 No. Tractor with  
Front Blade.

**13.3.5 Machinery Available From Private Source at Sialkot Daska Road Bridge RD.132+500**

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

**13.3.6 & 13.3.7 Flood Fighting Material is Required at camp of Sialkot Daska Road Bridge at Aik Nullah is as under:-**

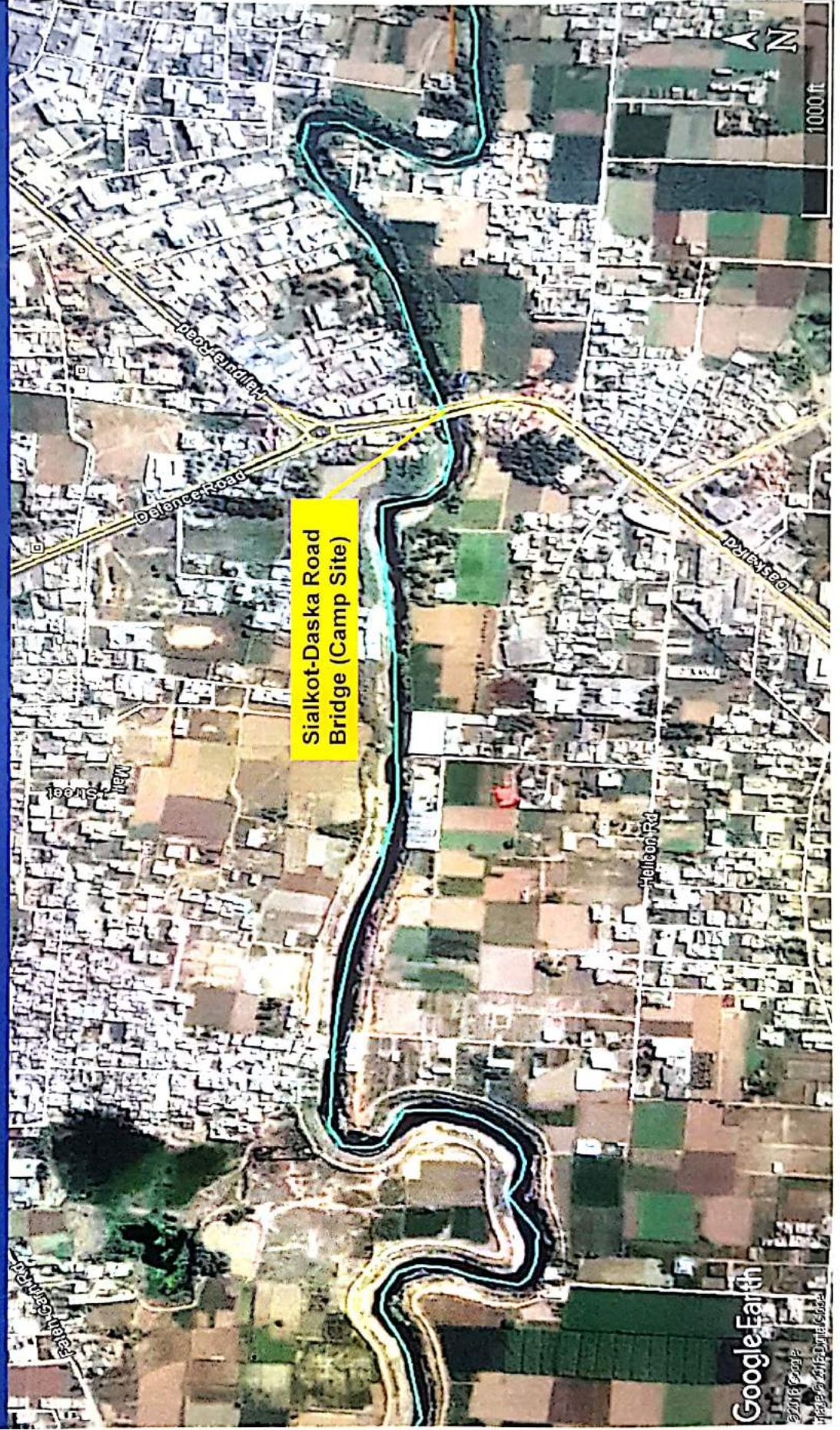
| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

**13.4 Detail of Other Infrastructure like Electric, Sui Gas, Telephone Installations, Road Network, Other Buildings, Canals and Drainage Network.**

|                        |                        |
|------------------------|------------------------|
| Electric Installation  | Yes                    |
| Sui Gas Installation   | No                     |
| Telephone Installation | Yes                    |
| Road Network           | Sialkot Daska Road     |
| Buildings              | Govt College Haji pura |
| Canals                 | No                     |
| Drainage Network       | No                     |

**Vulnerable Site # 2 :  
(Aik Nullah)**

**ii- Sialkot-Daska Road RD 132+500**



## Chapter # 13.

### Emergency Contingency Plan for vulnerable site along Aik Nullah

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required.

#### Site No.2 (iii):

Village Buttar and Miani RD.118-119/L

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

Plan attached for vulnerable site No. 3 (Annexure – B3)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:

Buttar, Miani, Dakwala, Aada, Kotli Amir Ali, Kotli Mughlan etc.

#### 13.3 Strategy and action taken be explained in detail. This may include:

##### 13.3.1 Arrangements:

All arrangements start on the onset of flood season.

##### 13.3.2 Establishment of Flood Fighting Camps:

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites:

Incharge of the site is Naveed Virk Sub Divisional Officer, Rawal Link Sub Division and his contact No. is 0301-6623908. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE    | LOCATION   | INCHARGE OF SITE WITH ESTABLISHMENT                                      | CELL NO      |
|-------|--------------|------------|--------------------------------------------------------------------------|--------------|
| 1     | RD.118-119/L | Aik Nullah | Shehbaz Ahmad<br>Sub Engineer<br>Beldars. = 15 No.<br>Chowkidar = 02 No. | 0301-6166632 |

**13.3.4 Departmental Machinery Available at Village Buttar and Miani RD.118-119/L:**

1 No. Tractor with Front Bade.

**13.3.5 Machinery Available From Private Source at Village Buttar and Miani RD.118-119/L:**

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

**13.3.6 & 13.3.7 Flood Fighting Material is Required & Available at camp of Village Buttar and Miani at Aik Nullah**

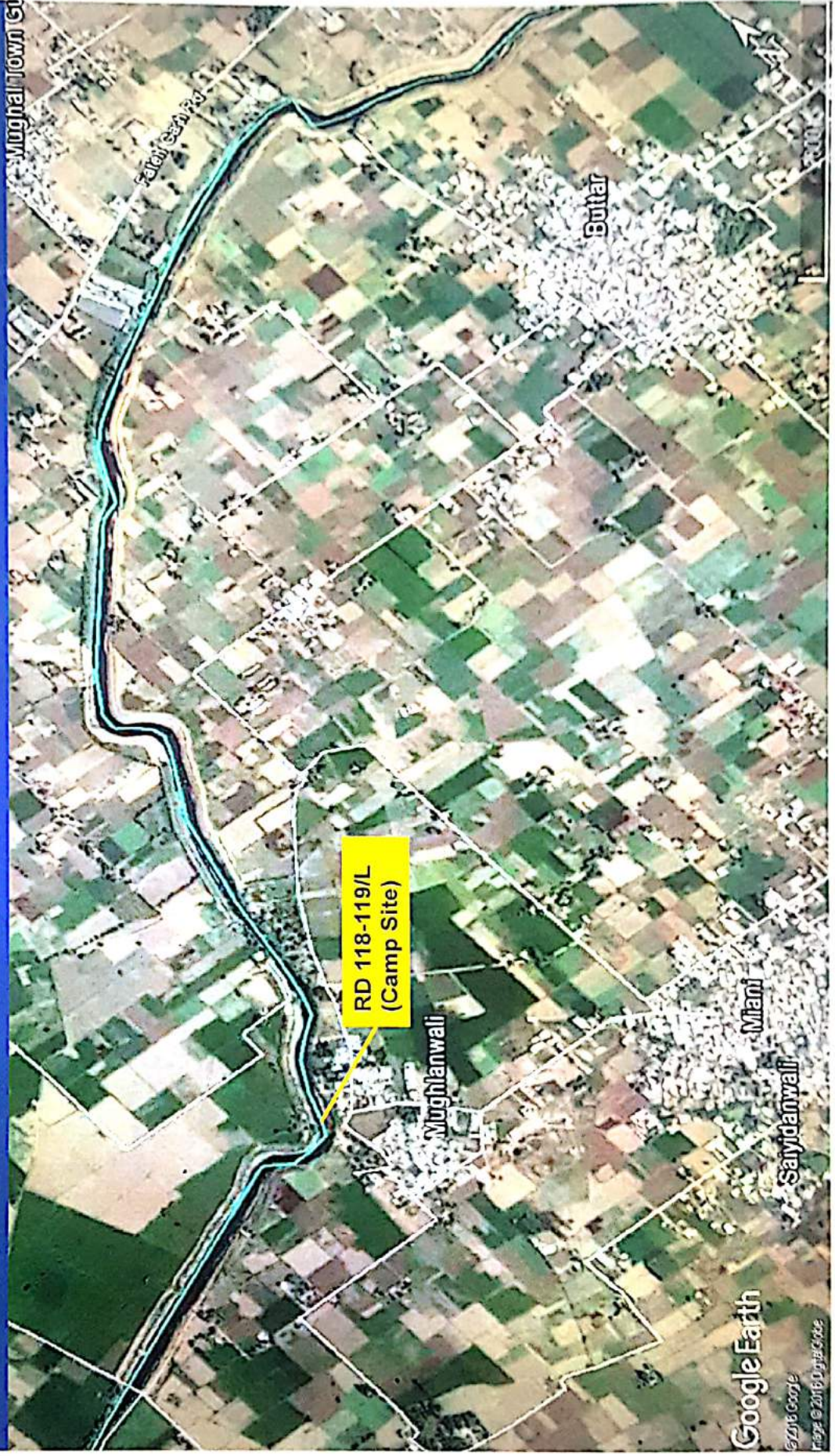
| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

**13.4 Detail of other infrastructure like electric, Sui gas, telephone installations, road network, other buildings, Canals and drainage network.**

|                        |                         |
|------------------------|-------------------------|
| Electric Installation  | Yes                     |
| Sui Gas Installation   | No                      |
| Telephone Installation | Yes                     |
| Road Network           | Sialkot Daska Road      |
| Buildings              | Government Girls School |
| Canals                 | No                      |
| Drainage Network       | No                      |

**Vulnerable Site # 2:  
(Aik Nullah)**

**iii- Miani & Butter RD 118-119/L**



## Chapter # 13.

### Emergency Contingency Plan for vulnerable site along Aik Nullah

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required.

#### Site No.2 (iv):

Village Nagoor RD.111-112/L

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

Plan attached for vulnerable site No. 4 (Annexure – B-4)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:

Nagoor, Ismail Awan, Ghowanke etc.

#### 13.3 Strategy and action taken be explained in detail. This may include:

##### 13.3.1 Arrangements:

All arrangements start on the onset of flood season.

##### 13.3.2 Establishment of Flood Fighting Camps:

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites:

Incharge of the site is Naveed Virk Sub Divisional Officer, Rawal Link Sub Division and his contact No. is 0301-6623908. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE          | LOCATION   | INCHARGE OF SITE WITH ESTABLISHMENT                                      | CELL NO      |
|-------|--------------------|------------|--------------------------------------------------------------------------|--------------|
| 1     | Nagor RD.111-112/L | Aik Nullah | Shehbaz Ahmad<br>Sub Engineer<br>Beldars. = 15 No.<br>Chowkidar = 02 No. | 0301-6166632 |

**13.3.4 Departmental Machinery Available at Village Nagoor RD.111-112/L:**

1 No. Tractor with Front Blade.

**13.3.5 Machinery Available From Private Source at Village Nagoor RD.111-112/L:**

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

**13.3.6 & 13.3.7 Flood Fighting Material is Required & Available at camp of Village Nagoor at Aik Nullah is as under:-**

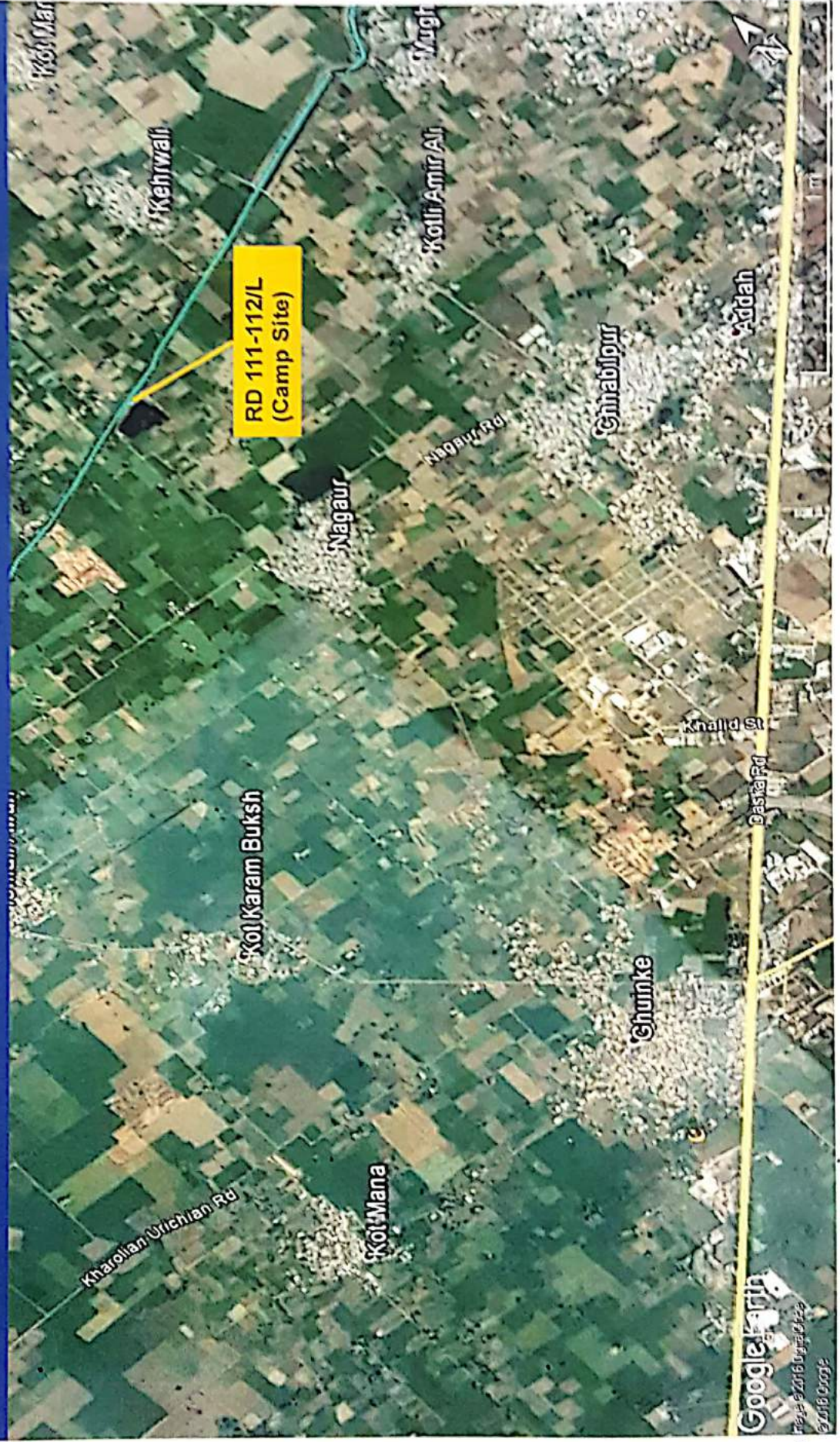
| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

**13.4 Detail of other infrastructure like electric, Sui gas, telephone installations, road network, other buildings, Canals and drainage network.**

|                        |                        |
|------------------------|------------------------|
| Electric Installation  | Yes                    |
| Sui Gas Installation   | No                     |
| Telephone Installation | Yes                    |
| Road Network           | Addah – shabilpur road |
| Buildings              |                        |
| Canals                 | No                     |
| Drainage Network       | No                     |

**Vulnerable Site # 2 :  
(Aik Nullah)**

**iv- Nigor RD 111-112/L**



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## Chapter # 13.

### Emergency Contingency Plan for vulnerable site along MR Link canal

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required.

#### Site No.2(v):

MR Link Canal RD 90+190 (Aik Super Passage)

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

Plan attached for vulnerable site No. 5 (Annexure – B5)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:

Dhane, Ghanjianwali, Lodhra, Kot Mana etc.

#### 13.3 Strategy and action taken be explained in detail: This may include:

##### 13.3.1 Arrangements:

All arrangements start on the onset of flood season.

##### 13.3.2 Establishment of Flood Fighting Camps:

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites:

Incharge of the site is Naveed Ahmed Sub Divisional Officer, Baddomalhi Link Sub Division and his contact No. is 0333-4915939. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE                   | LOCATION                       | INCHARGE OF SITE WITH ESTABLISHMENT                                       | CELL NO      |
|-------|-----------------------------|--------------------------------|---------------------------------------------------------------------------|--------------|
| 1     | RD.220+122<br>MR Link canal | MR Link Deg<br>Nullah crossing | Ikhtisham Ali<br>Sub Engineer,<br>Beldars. = 15 No.<br>Chowkidar = 02 No. | 0323-7913501 |

**13.3.4 Departmental Machinery Available at MR Link Canal RD 90+190 (Aik Super Passage):**

1 No. Tractor with Front Blade.

**13.3.5 Machinery Available From Private Source at MR Link Canal RD 90+190 (Aik Super Passage):**

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

**13.3.6 & 13.3.7 Flood Fighting Material Required & Available at MR Link Canal RD.90+190 (Aik Super Passage) at Aik Nullah is as under:-**

| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

13.4 Detail of other infrastructure like electric, Sui gas, telephone installations, road network, other buildings, Canals and drainage network.

|                        |                       |
|------------------------|-----------------------|
| Electric Installation  | Yes                   |
| Sui Gas Installation   | No                    |
| Telephone Installation | Yes                   |
| Road Network           | Pasrur-Kalaswala Road |
| Buildings              |                       |
| Canals                 | No                    |
| Drainage Network       | No                    |

## Chapter # 13.

### Emergency Contingency Plan for vulnerable site along Aik Nullah

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required.

#### Site No.2 (vi)

Village Bhopalwala RD.75-76/L

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

Plan attached for vulnerable site No.6 (Annexure – B6)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:

Bhopalwala, Kot chodah, Puraneke Raliyoke etc.

#### 13.3 Strategy and action taken be explained in detail: This may include:

##### 13.3.1 Arrangements:

All arrangements start on the onset of flood season.

##### 13.3.2 Establishment of Flood Fighting Camps:

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites:

Incharge of the site is Abdul Rehman Sub Divisional Officer, Daska Drainage Sub Division, and his contact No. is 03006402041. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE  | LOCATION   | INCHARGE OF SITE WITH ESTABLISHMENT                                             | CELL NO      |
|-------|------------|------------|---------------------------------------------------------------------------------|--------------|
| 1     | Bhopalwala | Aik Nullah | Muhammad Anwar Yasin<br>Sub Engineer<br>Beldars. = 15 No.<br>Chowkidar = 02 No. | 0333-8631577 |

**13.3.4 Departmental Machinery Available at Village Bhopalwala**  
RD.75-76/L:

1 No. Tractor with Front Blade.

**13.3.5 Machinery Available From Private Source Village**  
Bhopalwala RD.75-76/L:

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

**13.3.6 & 13.3.7 Flood Fighting Material is Required & Available at camp of Village Bhopalwala at Aik Nullah is as under:**

| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

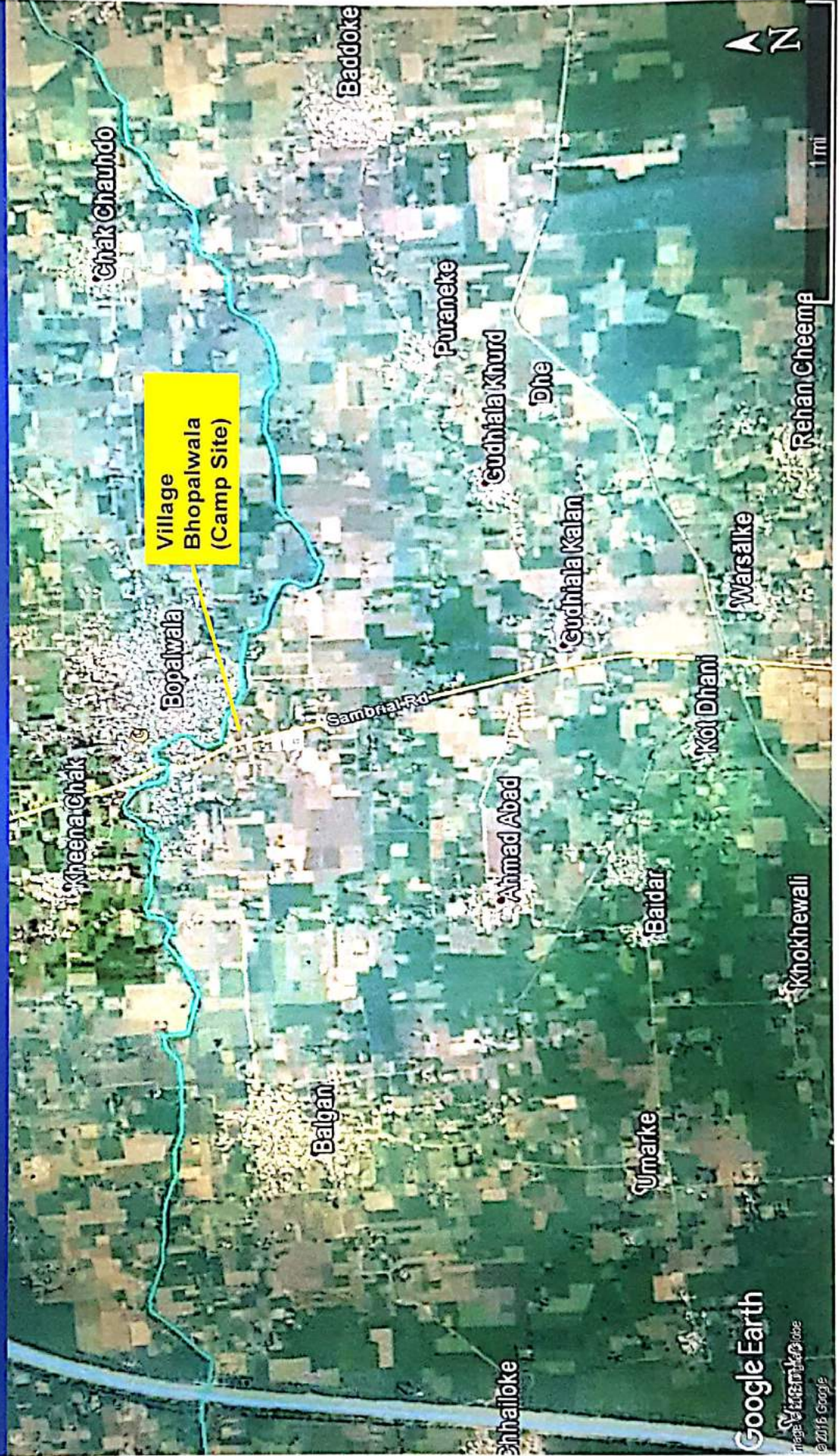


**13.4 Detail of other infrastructure like electric, Sui gas, telephone installations, road network, other buildings, Canals and drainage network.**

|                        |               |
|------------------------|---------------|
| Electric Installation  | Yes           |
| Sui Gas Installation   | No            |
| Telephone Installation | Yes           |
| Road Network           | Sambrial Road |
| Buildings              | -             |
| Canals                 | No.           |
| Drainage Network       | No.           |

## Vulnerable Site # 2 : (Aik Nullah)

## vi- Village Bhopalwala RD 75-76



## Chapter # 13.

### Emergency Contingency Plan for vulnerable site along Palkhu Nullah

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required.

#### Site No.3 (i):

MR Link Canal RD.47+075 at Machi Khokhar.

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

Plan attached for vulnerable site No. 1 (Annexure – C1)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:

Kaporwali, Kala ghumna, Ghansarpur etc.

#### 13.3 Strategy and action taken be explained in detail. This may include:

##### 13.3.1 Arrangements:

All arrangements start on the onset of flood season.

##### 13.3.2 Establishment of Flood Fighting Camps:

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites:

Incharge of the site is Abdul Rehman Sub Divisional Officer, Daska Drainage Sub Division, and his contact No. is 03006402041. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE               | LOCATION      | INCHARGE OF SITE WITH ESTABLISHMENT                                            | CELL NO      |
|-------|-------------------------|---------------|--------------------------------------------------------------------------------|--------------|
| 1     | MR Link Canal RD.47+075 | Palkhu Nullah | Sajjad Hussain Butt<br>Sub Engineer<br>Beldars. = 15 No.<br>Chowkidar = 02 No. | 0321-5540351 |

### 13.3.4 Departmental Machinery Available at MR Link Canal

#### RD.47+075 at Machi Khokhar:

1 No. Tractor with Front Blade.

### 13.3.5 Machinery Available From Private Source at MR Link

#### Canal RD.47+075 at Machi Khokhar:

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

### 13.3.6 Flood Fighting Material is Required at camp of MR Link Canal to Village Machhi Khokhar along Palkhu Nullah is as under:-

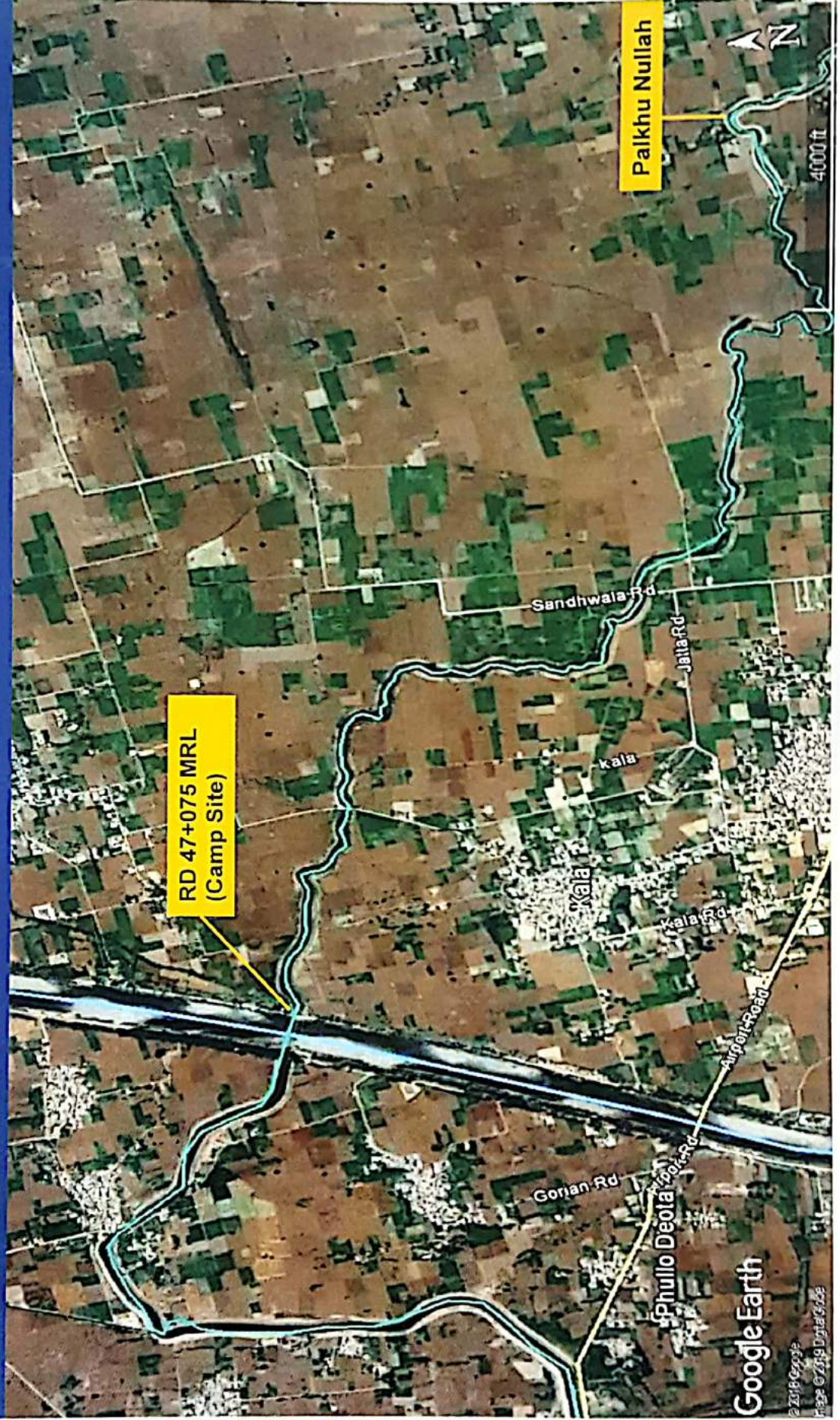
| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

**13.4 Detail of other infrastructure like electric, Sui gas, telephone installations, road network, other buildings, Canals and drainage network.**

|                        |                     |
|------------------------|---------------------|
| Electric Installation  | Yes                 |
| Sui Gas Installation   | No                  |
| Telephone Installation | Yes                 |
| Road Network           | Sialkot Marala Road |
| Buildings              | Government School   |
| Canals                 | No                  |
| Drainage Network       | No                  |

# Vulnerable Site # 3 : (Palkhu Nullah)

## i- MR Link Canal RD 47+075



## CHAPTER # 13.

### EMERGENCY CONTINGENCY PLAN FOR VULNERABLE SITE OF DEG NULLAH

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required in case of emergency.

#### Site No.3 (ii):

Camp at Dugri Nullah #1 RD.23+000

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

Plan attached for vulnerable site No. 1 (Annexure – C2)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:

Sialkot International Airport Sambrial

#### 13.3 Strategy and action taken be explained in detail. This may include.

##### 13.3.1 Arrangements

All arrangements start on the onset of flood season.

##### 13.3.2 Establishment of Flood Fighting Camps

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation. in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites

Incharge of the site is Abdul Rehman Sub Divisional Officer, Daska Drainage Sub Division, and his contact No. is 03006402041. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot.

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE                 | LOCATION     | INCHARGE OF SITE WITH ESTABLISHMENT                                            | CELL NO      |
|-------|---------------------------|--------------|--------------------------------------------------------------------------------|--------------|
| 1     | Dugri Nullah #1 RD.23+000 | Dugri Nullah | Sajjad Hussain Butt<br>Sub Engineer<br>Beldars. = 15 No.<br>Chowkidar = 02 No. | 0321-5540351 |

**13.3.4 Departmental Machinery Available at at Dugri Nullah #1**

**RD.23+000:**

1 No. Tractor with Front Blade.

**13.3.5 Machinery Available From Private Source at Dugri Nullah #1**

**RD.23+000:**

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

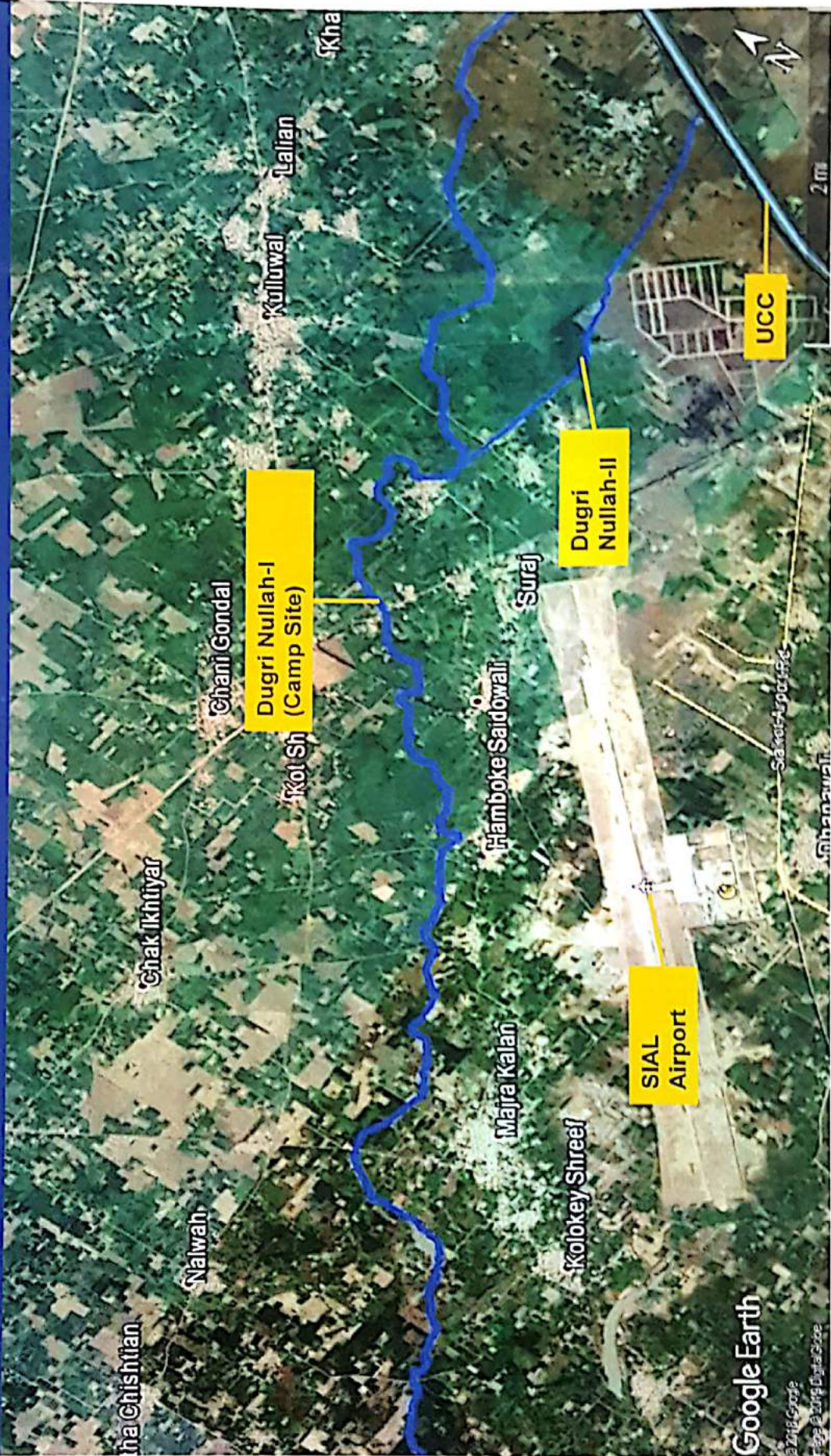
**13.3.6 & 13.3.7 Flood Fighting Material Required & Available at camp of Dugri Nullah#1 RD.23+000 along Palkhu Nullah is as under:-**

| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

**13.4 Detail of other infrastructure like electric, Sui gas, telephone installations, road network, other buildings, Canals and drainage network.**

|                        |                       |
|------------------------|-----------------------|
| Electric Installation  | Yes                   |
| Sui Gas Installation   | No                    |
| Telephone Installation | Yes                   |
| Road Network           | Sambrial Airport Road |
| Buildings              | Government School     |
| Canals                 | No                    |
| Drainage Network       | No                    |

## Vulnerable Site # 3 : (Palkhu Nullah) ii- Dugri Nullah-I



## Chapter # 13.

### Emergency Contingency Plan for vulnerable site along Palkhu Nullah

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required.

#### Site No.3 (iii):

RD 213-214 Chitti Sheikhan

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

Plan attached for vulnerable site No. 3 (Annexure – C3)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan.

Chitti Sheikhan, Nawapind Korpur etc.

#### 13.3 Strategy and action taken be explained in detail: This may include:

##### 13.3.1 Arrangements:

\* All arrangements start on the onset of flood season. \*

##### 13.3.2 Establishment of Flood Fighting Camps:

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites:

Incharge of the site is Abdul Rehman Sub Divisional Officer, Daska Drainage Sub Division, and his contact No. is 03006402041. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE                     | LOCATION         | INCHARGE OF SITE WITH ESTABLISHMENT                                      | CELL NO      |
|-------|-------------------------------|------------------|--------------------------------------------------------------------------|--------------|
| 1     | Chitti Sheikhan<br>RD.213-214 | Palkhu<br>Nullah | Muhammad Asif<br>Sub Engineer<br>Beldars. = 15 No.<br>Chowkidar = 02 No. | 0321-7881465 |

**13.3.4 Departmental Machinery Available at RD 213-214 Chitti**

**Sheikhan:**

1 No. Tractor with Front Blade.

**13.3.5 Machinery Available From Private Source at RD 213-214**

**Chitti Sheikhan:**

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

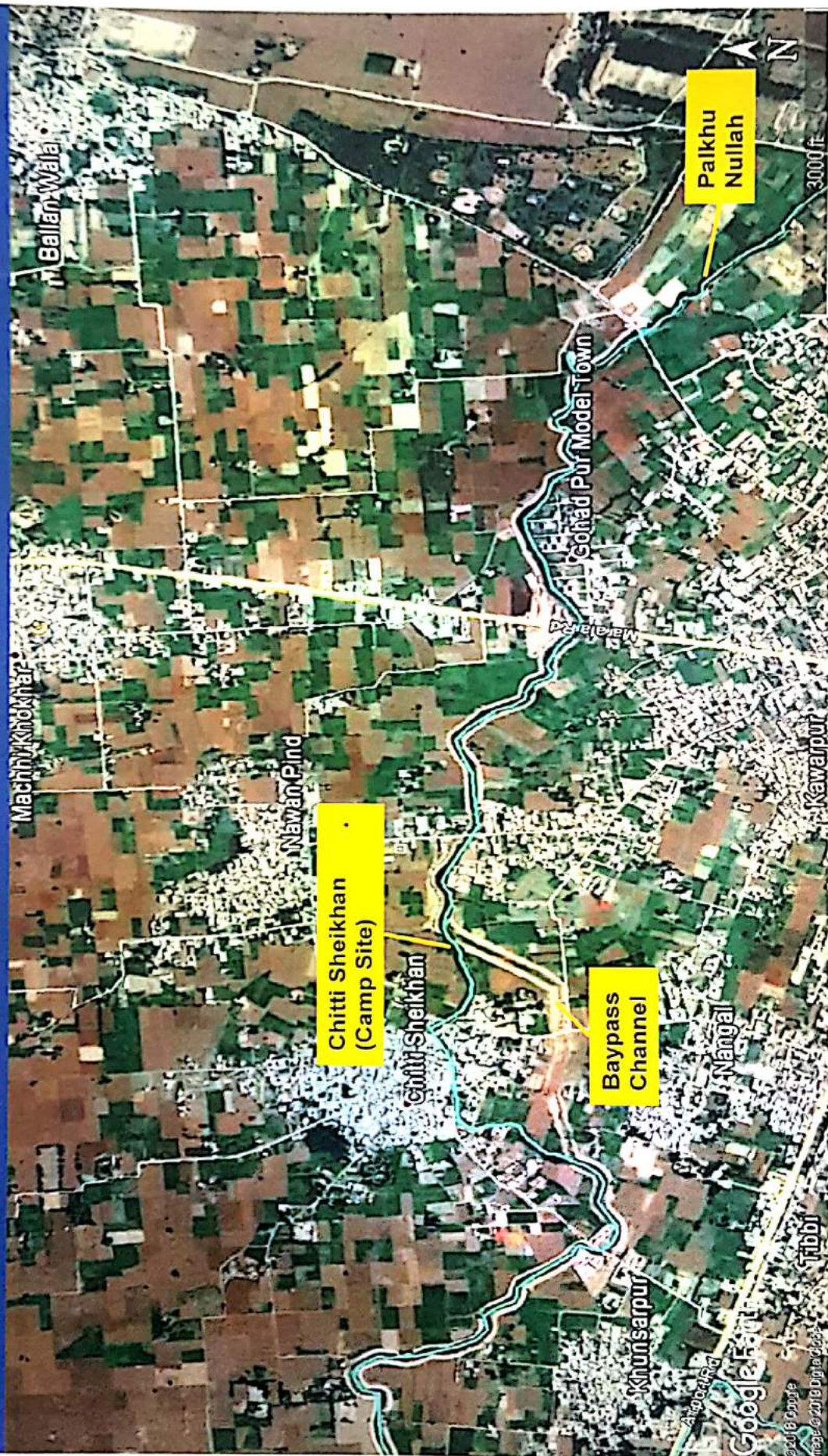
**13.3.6 & 13.3.7 Flood Fighting Material is Required & Available at camp of RD.213-214 Chitti Sheikhan along Palkhu Nullah is as under:-**

| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

**13.4 Detail of other infrastructure like electric, Sui gas, telephone installations, road network, other buildings, Canals and drainage network.**

|                        |                     |
|------------------------|---------------------|
| Electric Installation  | Yes                 |
| Sui Gas Installation   | No                  |
| Telephone Installation | Yes                 |
| Road Network           | Sialkot Marala Road |
| Buildings              | Government School   |
| Canals                 | No                  |
| Drainage Network       | No                  |

**Vulnerable Site # 3:      iii- RD 213-214**  
**(Palkhu Nullah)**      **Village Chitti Sheikhan**



## Chapter # 13.

### Emergency Contingency Plan for vulnerable site along Palkhu Nullah

Machinery Link Circle Lahore will be requested for deployment of Machinery as and when required.

#### Site No.3(iv):

RD.228+400 Askari Bridge

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

Plan attached for vulnerable site No. 4 (Annexure – C4)

#### 13.2 Detail of Villages abadies likely to be affected and this should also be shown on the Plan:

Hunter pura, Gohad pur, Balanwala

#### 13.3 Strategy and action taken be explained in detail: This may include:

##### 13.3.1 Arrangements:

##### 13.3.2 Establishment of Flood Fighting Camps:

Camp is established to monitor the situation and to provide swift and disposal of any information related to the flood situation in order to intimate prompt action by the Officers.

##### 13.3.3 Duties of Officers / Officials and their Camp sites

Incharge of the site is Abdul Rehman Sub Divisional Officer, Daska Drainage Sub Division, and his contact No. is 03006402041. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of incharge along with his establishment is given below: -

| Sr. # | CAMP SITE                       | LOCATION      | INCHARGE OF SITE WITH ESTABLISHMENT                                      | CELL NO      |
|-------|---------------------------------|---------------|--------------------------------------------------------------------------|--------------|
| 1     | Askari Colony Bridge RD.228+400 | Palkhu Nullah | Muhammad Asif<br>Sub Engineer<br>Beldars. = 15 No.<br>Chowkidar = 02 No. | 0321-7881465 |

#### 13.3.4 Departmental Machinery Available at RD.228+400 Askari

##### Bridge:

1 No. Tractor with Front Blade.

#### 13.3.5 Machinery Available From Private Source at RD.228+400

##### Askari Bridge:

The earth moving machinery i.e. 1 x Excavator Machine, 2 x Tractor Trolley estimate of procurement of machinery may be mentioned and 1 x Tractor with front blade will be made available from private source.

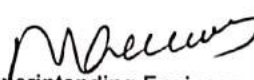
#### 13.3.6 & 13.3.7 Flood Fighting Material is Required & Available at camp RD.228+400 Askari Bridge along Palkhu Nullah is as under:-

| SR. # | Name of Article           | Quantity Required | Available Quantity | Deficient Quantity | Remarks                                                      |
|-------|---------------------------|-------------------|--------------------|--------------------|--------------------------------------------------------------|
| 1     | 2                         | 3                 | 4                  | 5                  | 6                                                            |
| 1     | Nylon bags                | 5000              | 0                  | 5000               | Deficient material will be procured before flood season 2020 |
| 2     | Bamboos or Ballies        | 500               | 0                  | 500                |                                                              |
| 3     | Kassis with handles       | 4                 | 0                  | 4                  |                                                              |
| 4     | Shouldari                 | 2                 | 0                  | 2                  |                                                              |
| 5     | Needles                   | 0                 | 0                  | 0                  |                                                              |
| 6     | Generator set             | 1                 | 0                  | 1                  |                                                              |
| 7     | Pitching Stone            | 0                 | 0                  | 0                  |                                                              |
| 8     | Water Cooler              | 1                 | 0                  | 1                  |                                                              |
| 9     | Electric Chargeable light | 0                 | 0                  | 0                  |                                                              |

**13.4 Detail of other infrastructure like electric, Sui gas, telephone installations, road network, other buildings, Canals and drainage network.**

|                        |                                |
|------------------------|--------------------------------|
| Electric Installation  | Yes                            |
| Sui Gas Installation   | No                             |
| Telephone Installation | Yes                            |
| Road Network           | Pully top khana to Marala Road |
| Buildings              | Government boys School         |
| Canals                 | No                             |
| Drainage Network       | No                             |

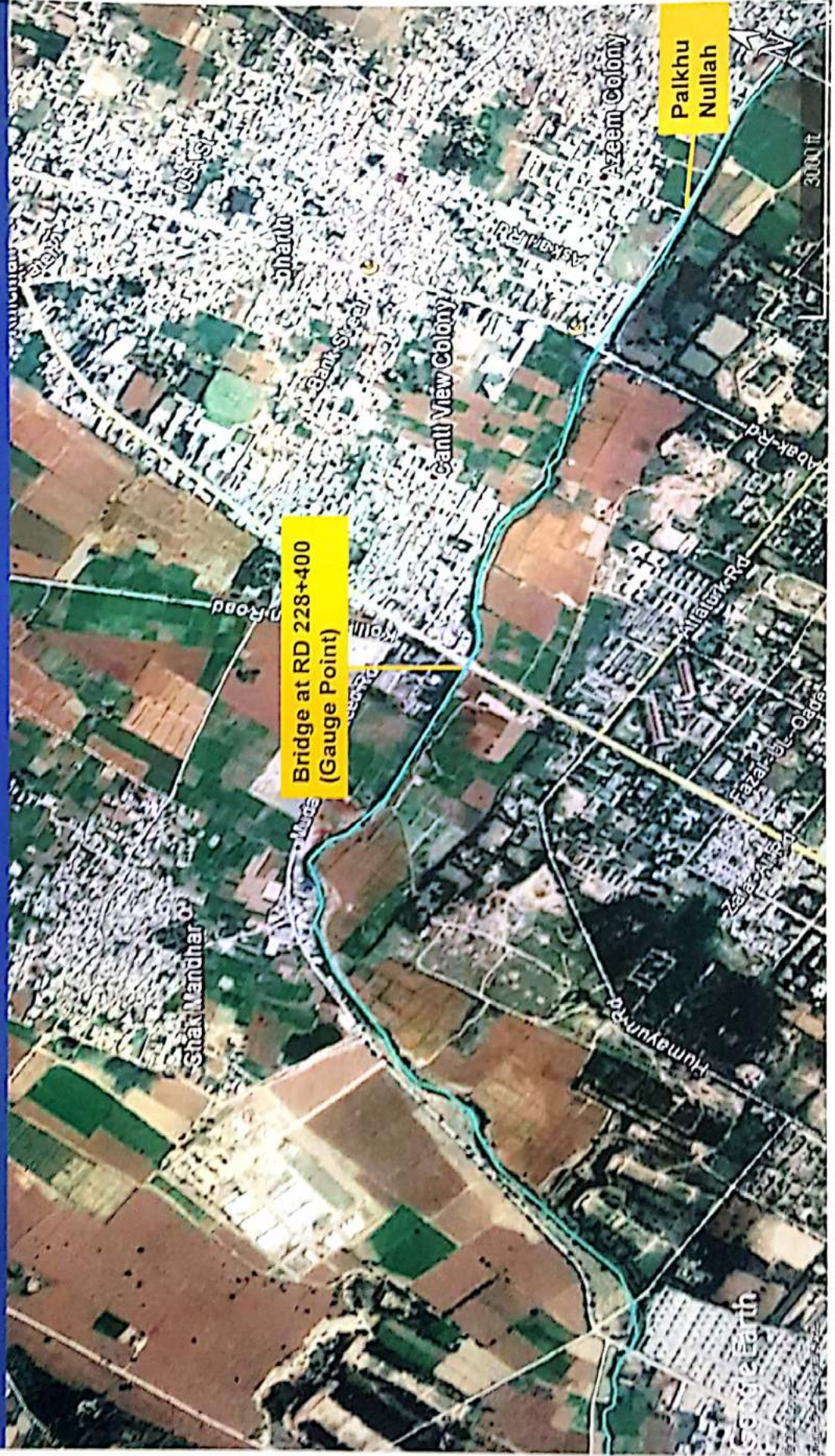
  
**Executive Engineer,**  
 Pasrur Link Division,  
 Sialkot.

  
**Superintending Engineer,**  
 Link Circle, Lahore.

  
**Chief Engineer,**  
 Irrigation Lahore Zone,  
 Lahore. 

# Vulnerable Site # 3 : (Palkhu Nullah)

## iv- RD 228+400 Askari Bridge



#### 14.1:- Re-shuffling/recouping plan of reserve stone departmentally.

In case of any eventuality /untoward flooding situation the stone will be recouped/reshuffled at vulnerable sites as per necessity under a well coordinated plan.

| Sr.#                                     | Name of Site / Location                                   | Minimum requirement i.e. 60% | Sanctioned Limit | Available Quantity | Remarks                                                                                                                                                                                              |
|------------------------------------------|-----------------------------------------------------------|------------------------------|------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flood Protection along Deg Nullah</b> |                                                           |                              |                  |                    |                                                                                                                                                                                                      |
| 1                                        | Left Flood protection bund choor Bridge to Kingra Bridge  | 0.417                        | 0.695            | 0                  | The funds amounting to Rs. 3.8 Million is received against 6.2 Million required amount for procurement of remaining stone 0.73 Lac . However the procedure of procurement of stone is under process. |
| 2                                        | Right flood protection bund choor Bridge to Kingra Bridge | 0.18                         | 0.300            | 0                  |                                                                                                                                                                                                      |
| 3                                        | Right flood protection bund U/S Kingra Bridge             | 0.225                        | 0.375            | 0                  |                                                                                                                                                                                                      |
| 4                                        | Left flood protection bund U/S Kingra Bridge              | 0.18                         | 0.300            | 0.21915            |                                                                                                                                                                                                      |
| 5                                        | 21 No. Spurs of 200 ft length (21x200)                    | 0.198                        | 0.330            | 0.24270            |                                                                                                                                                                                                      |
|                                          | <b>Total Quantity</b>                                     | <b>1.2</b>                   | <b>2.000</b>     | <b>46185</b>       |                                                                                                                                                                                                      |

#### CONSOLIDATE STATUS OF RESERVE STOCK OF STONE REGARDING PASRUR LINK SUB DIVISION, SIALKOT

| Sanctioned reserve stock of limit | Available Quantity (Lac Cft) | Deficient Balance quantity | Remarks.                                         |
|-----------------------------------|------------------------------|----------------------------|--------------------------------------------------|
| 2.000                             | 0.46200                      | 1.53800                    | Funds has been demanded from competent authority |

14.2:- DETAIL OF INLET AND OUTLET CROSSING ALONGWITH CLOSING METHODOLOGY

| Sr.#                                                               | Name of Bund /Spur | RD. | Outlet/Inlet | Existing Position | Closing Methodology |
|--------------------------------------------------------------------|--------------------|-----|--------------|-------------------|---------------------|
| There is no inlet or outlet crossing at Embankments of Deg Nullah. |                    |     |              |                   |                     |

### 14.3:- Deployment of Machinery ( Medium to High Flood)

| Sr.#                          | Name of Structure                                                                                         | Length in Mile | Vulnerable Reach                      | Camp Location                             | Site Incharge by Name & Cell No   | Machinery Deployed |       |                   |                          |                      | Availability of Stone Cft |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|----------------|---------------------------------------|-------------------------------------------|-----------------------------------|--------------------|-------|-------------------|--------------------------|----------------------|---------------------------|
|                               |                                                                                                           |                |                                       |                                           |                                   | Excavator          | Dozer | Trolleys/ Dumpers | Tractor with front blade | Lahour beldar + Mate |                           |
| 1                             | 2                                                                                                         | 3              | 4                                     | 5                                         | 6                                 | 7                  | 8     | 9                 | 10                       | 11                   | 12                        |
| PASRUR LINK DIVISION, SIALKOT |                                                                                                           |                |                                       |                                           |                                   |                    |       |                   |                          |                      |                           |
|                               | Flood Protection along Deg Nullah                                                                         |                |                                       |                                           |                                   |                    |       |                   |                          |                      |                           |
| 1                             | Right Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-29600                | 5.61           | 6-7                                   | 13-14 Hanjli Bridge                       | Muhammad Arshed 03006115311       | 1                  | -     | 4                 | 1                        | 18                   | -                         |
| 2                             | Left Flood protection bund over Deg Nullah from Defence Embankment to Zafarwal Kingra road RD. 0 - 11250. | 2.13           | 11-12                                 | At Spur R.D 9+400                         | Muhammad Arshed 03006115311       | -                  | -     | -                 | -                        | -                    | 0.46185                   |
| 3                             | Right Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-29600                | 5.26           | 22-23                                 | At Spur R.D 9+400                         | Muhammad Arshed 03006115311       | -                  | -     | -                 | -                        | -                    |                           |
| 4                             | Left Flood Protection Bund along Deg Nullah                                                               |                | -                                     | R.D 220+122/L M.R Deg Rest House          | Iktisham 03237913501              | 1                  | 1     | 2                 | 1                        | 4                    | -                         |
| 5                             | Left Marginal Bund along Deg Nullah R.D.0-20700                                                           | 3.92           | -                                     | R.D 220+122/L M.R Deg Rest House          | Iktisham 03237913501              | -                  | -     | -                 | -                        | -                    | -                         |
|                               | Flood Protection Bunds along Aik Nullah                                                                   |                |                                       |                                           |                                   |                    |       |                   |                          |                      |                           |
| 6                             | Ura Bridge R.D 163+150 To 166+000 L&R                                                                     | 1.39           | -                                     | At Ura Brg Aik Nullah R.D 163+150         | Fawad Akhtar Sub eng: 03009613443 | 1                  | -     | 2                 | 1                        | 12                   | -                         |
| 7                             | D/S Railway Bridge to Mohalah Shuja abad                                                                  | -              | -                                     | Aik Nullah D/S Railway Bridge R.D 149+500 | Fawad Akhtar Sub eng: 03009613443 | 1                  | -     | 4                 | 1                        | 17                   | -                         |
| 8                             | Haji Pura Flood Protection Bund along Aik Nullah 0 - 12+500                                               | -              | Village Bogra                         | Village Bogra                             | Fawad Akhtar Sub eng: 03009613443 | 1                  | -     | 2                 | 1                        | 17                   | -                         |
| 9                             | Sialkot Daska Road Bridge RD.132-500                                                                      | -              | Sialkot Daska Road Bridge             | Sialkot Daska Road Bridge                 | zafar Ahmad 03026167381           | 1                  | -     | 2                 | 1                        | 17                   | -                         |
| 10                            | Village Buttar & Miani R.D 118-119 /L                                                                     | -              | Village Buttar & Miani R.D 118-119 /L | Village Buttar & Miani R.D 118-125 /L     | zafar Ahmad 03026167381           | 1                  | -     | 2                 | 1                        | 17                   | -                         |
| 11                            | Village Nagoor R.D 111-112 /L                                                                             | -              | Village Nagoor R.D 111-112 /L         | Village Nagoor R.D 111-112 /L             | Shahbaz Ahmad 0301-6166632        | 1                  | -     | 2                 | 1                        | 17                   | -                         |
| 12                            | Village Bopalwala R.D 75-76 /L                                                                            | -              | Village Bopalwala R.D 75-76 /L        | Village Bopalwala R.D 75-76 /L            | Anwar yaseen 0333-8631577         | 1                  | -     | 2                 | 1                        | 17                   | -                         |
|                               | Flood Protection along Patkhu Nullah                                                                      |                |                                       |                                           |                                   |                    |       |                   |                          |                      |                           |

|    |                                                |              |                                   |                                         |                                  |           |          |           |           |    |   |
|----|------------------------------------------------|--------------|-----------------------------------|-----------------------------------------|----------------------------------|-----------|----------|-----------|-----------|----|---|
| 13 | M.R Link Canal at Machi Khokar                 | -            | M.R Link Canal To Chitti Sheikhan | M.R Link Canal R.D 47-075 Palkhu Nullah | Sajjad Hussain Butt 0321-5540351 | 1         | -        | 2         | 1         | 17 | - |
| 14 | Marala Road to Gondal Road Askri Colony Bridge | -            | Marala Road to Gondal Road Askri  | Askri Colony Bridge R.D 228+400         | Asif Sub Eng. 03217881465        | 1         | -        | 2         | 1         | 17 | - |
| 15 | Chitti Sheikhan                                |              | Marala Road to Gondal Road Askri  | Askri Colony Bridge R.D 228+400         | Asif Sub Eng. 03217881465        | 1         | -        | 2         | 1         | 17 | - |
| 16 | D/S UCC TO Sial Air Port                       | -            | D/S UCC TO Sial Air Port          | Near Sial Airport                       | Sajjad Hussain Butt 0321-5540351 | 1         | -        | 2         | 1         | 17 | - |
| 17 | Dugri Nullah                                   |              | RD.23+000                         |                                         | Sajjad Hussain Butt 0321-5540351 | 1         | -        | 2         | 1         | 17 | - |
|    | <b>Total</b>                                   | <b>18.30</b> |                                   |                                         |                                  | <b>14</b> | <b>1</b> | <b>32</b> | <b>14</b> |    |   |

#### 14.4 :- Deployment of Machinery (High to very High Flood)

| Sr.#                          | Name of Structure                                                                                         | Length in Mile | Vulnerable Reach                               | Camp Location                             | Site Incharge by Name & Cell No   | Machinery Deployed |       |                   |                          |                      | Availability of Stone Lac Cft |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------|-------------------------------------------|-----------------------------------|--------------------|-------|-------------------|--------------------------|----------------------|-------------------------------|
|                               |                                                                                                           |                |                                                |                                           |                                   | Excavator          | Dozer | Trolleys/ Dumpers | Tractor with front blade | Lahour beldar + Mate |                               |
| 1                             | 2                                                                                                         | 3              | 4                                              | 5                                         | 6                                 | 7                  | 8     | 9                 | 10                       | 11                   | 12                            |
| PASRUR LINK DIVISION, SIALKOT |                                                                                                           |                |                                                |                                           |                                   |                    |       |                   |                          |                      |                               |
|                               | Flood Protection along Deg Nullah                                                                         |                |                                                |                                           |                                   |                    |       |                   |                          |                      |                               |
| 2                             | Right Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-29600                | 5.61           | 6-7                                            | 13-14 Hanjli Bridge                       | Muhammad Arshed 03006115311       | 4                  | -     | 8                 | 4                        | 18                   | -                             |
| 3                             | Left Flood protection bund over Deg Nullah from Defence Embankment to Zafarwal Kingra road RD. 0 - 11250. | 2.13           | 11-12                                          | At Spur R.D 9-400                         | Muhammad Arshed 03006115311       | -                  | -     | -                 | -                        | -                    | 0.5400                        |
| 4                             | Left Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-27750                 | 5.26           | 22-23                                          | At Spur R.D 9-400                         | Muhammad Arshed 03006115311       | -                  | -     | -                 | -                        | -                    |                               |
| 6                             | Left Flood Protection Bund along Deg Nullah (from Dhir Fir Muhammad to Chak Raja) RD.0 - 15000            | 2.84           | -                                              | R.D 220+122/L M.R Deg Rest House          | Ikhisham 03237913501              | 4                  | 2     | 4                 | 4                        | 8                    | -                             |
| 7                             | Left Marginal Bund along Deg Nullah R.D.0-20700                                                           | 3.92           | -                                              | R.D 220+122/L M.R Deg Rest House          | Ikhisham 03237913501              | -                  | -     | -                 | -                        | -                    | -                             |
|                               | Flood Protection Bunds along Aik Nullah                                                                   |                |                                                |                                           |                                   |                    |       |                   |                          |                      |                               |
| 8                             | Ura Bridge R.D 163+150 To 166+000 L&R                                                                     | 1.39           | -                                              | At Ura Brg Aik Nullah R.D 163+150         | Fawad Akhtar Sub eng- 03009613443 | 4                  | -     | 8                 | 4                        | 24                   | -                             |
| 9                             | D/S Railway Bridge to Mohalsh Shuja abad                                                                  | -              | -                                              | Aik Nullah D/S Railway Bridge R.D 149-500 | Fawad Akhtar Sub eng- 03009613443 | 4                  | -     | 8                 | 4                        | 30                   | -                             |
| 10                            | Haji Pura Flood Protection Bund along Aik Nullah 0 - 12+500                                               | -              | Village Bogra                                  | Village Bogra                             | Fawad Akhtar Sub eng- 03009613443 | 4                  | -     | 4                 | 4                        | 30                   | -                             |
| 11                            | Sialkot Daska Road Bridge                                                                                 | -              | Sialkot Daska Road Bridge                      | Sialkot Daska Road Bridge                 | Shabbat ahmad 0301-6166632        | 4                  | -     | 8                 | 4                        | 30                   | -                             |
| 12                            | Village Buttar & Miani R.D 118-125 /L                                                                     | -              | Village Buttar & Miani R.D 118-125 /L          | Village Buttar & Miani R.D 118-125 /L     | Shabbat ahmad 0301-6166632        | 4                  | -     | 8                 | 4                        | 30                   | -                             |
| 13                            | Village Nagoor R.D 111-112 /L                                                                             | -              | Village Nagoor R.D 111-112 /L                  | Village Nagoor R.D 111-112 /L             | zafar Ahmad 03026167381           | 4                  | -     | 8                 | 4                        | 30                   | -                             |
| 14                            | Village Dhane R.D 120-121/R                                                                               | -              | Village Dhane R.D 120-121/R                    | Village Dhane R.D 120-121/R               | zafar Ahmad 03026167381           | 4                  | -     | 8                 | 4                        | 30                   | -                             |
| 15                            | Village Bopalwala R.D 75-76 /L                                                                            | -              | Village Bopalwala R.D 75-76 /L                 | Village Bopalwala R.D 75-76 /L            | Anwar yaseen 0333-8631577         | 4                  | -     | 8                 | 4                        | 30                   | -                             |
|                               | Flood Protection along Faikhu Nullah                                                                      |                |                                                |                                           |                                   |                    |       |                   |                          |                      |                               |
| 16                            | M.R Link Canal To Chiti Sheikhhan                                                                         | -              | M.R Link Canal To Chiti Sheikhhan              | M.R Link Canal R.D 47+075 Faikhu Nullah   | Sajjad Hussain Butt 0321-5540351  | 4                  | -     | 8                 | 4                        | 30                   | -                             |
| 17                            | Marala Road to Gondal Road Askri Colony Bridge                                                            | -              | Marala Road to Gondal Road Askri Colony Bridge | Askri Colony Bridge R.D 228+400           | Auf Sub Eng. 03217881465          | 4                  | -     | 8                 | 4                        | 30                   | -                             |
| 18                            | D/S UCC TO Sial Air Port                                                                                  | -              | D/S UCC TO Sial Air Port                       | Near Sial Air Port                        | Sajjad Hussain Butt 0321-5540351  | 1                  | -     | 2                 | 1                        | 30                   | -                             |
| Total                         |                                                                                                           | 21.14          |                                                |                                           |                                   | 49                 | 2     | 90                | 49                       |                      |                               |

# 14.5:- Deployment of Machinery (Very High to exceptional High Flood)

| Sr.#                          | Name of Structure                                                                                         | Length in Mile | Vulnerable Reach                      | Camp Location                             | Site Incharge by Name & Cell No   | Machinery Deployed |       |                   |                          |                      | Availability of Stone Lac Cft |         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|----------------|---------------------------------------|-------------------------------------------|-----------------------------------|--------------------|-------|-------------------|--------------------------|----------------------|-------------------------------|---------|
|                               |                                                                                                           |                |                                       |                                           |                                   | Excavator          | Dozer | Trolleys/ Dumpers | Tractor with front blade | Lahour beldar + Mate |                               |         |
| 1                             | 2                                                                                                         | 3              | 4                                     | 5                                         | 6                                 | 7                  | 8     | 9                 | 10                       | 11                   | 12                            |         |
| PASRUR LINK DIVISION, SIALKOT |                                                                                                           |                |                                       |                                           |                                   |                    |       |                   |                          |                      |                               |         |
|                               | Flood Protection along Deg Nullah                                                                         |                |                                       |                                           |                                   |                    |       |                   |                          |                      |                               |         |
| 1                             | Right Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-29600                | 5.61           | 6-7                                   | 13-14 Hanjli Bridge                       | Muhammad Arshed 03006115311       | 4                  | 2     | 4                 | 3                        | 25                   |                               | -       |
| 2                             | Left Flood protection bund over Deg Nallah from Defence Embankment to Zafarwal Kingra road RD. 0 - 11250. | 2.13           | 11-12                                 | At Spur R.D 9+400                         | Muhammad Arshed 03006115311       | 3                  | 2     | 2                 | 3                        | 10                   |                               | 0.54000 |
| 3                             | Left Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-27750                 | 5.26           | 22-23                                 | At Spur R.D 9+400                         | Muhammad Arshed 03006115311       | 3                  | 2     | 3                 | 3                        | 10                   |                               |         |
| 4                             | Right flood Protection Bund along deg Nullah.                                                             |                |                                       | R.D 220+122/L M.R Deg Rest House          | Ikhisham 03237913501              | 5                  | 3     | 4                 | 3                        | 10                   |                               | -       |
| 5                             | Left Marginal Bund along Deg Nullah R.D.0-20700                                                           | 3.92           |                                       | R.D 220+122/L M.R Deg Rest House          | Ikhisham 03237913501              | 3                  | 2     | 2                 | 3                        | -                    |                               | -       |
|                               | Flood Protection Bunds along Aik Nullah                                                                   |                |                                       |                                           |                                   |                    |       |                   |                          |                      |                               |         |
| 6                             | Ura Bridge R.D 163+150 To 166+000 L&R                                                                     | 1.39           |                                       | At Ura Brg Aik Nullah R.D 163+150         | Fawad Akhtar Sub eng: 03009613443 | 5                  | -     | 4                 | 3                        | 25                   |                               | -       |
| 7                             | D/S Railway Bridge to Mohalah Shuja abad                                                                  |                |                                       | Aik Nullah D/S Railway Bridge R.D 149+500 | Fawad Akhtar Sub eng: 03009613443 | 5                  | -     | 4                 | 3                        | 25                   |                               | -       |
| 9                             | Village Buttar & Miani R.D 118-119 /L                                                                     |                | Village Buttar & Miani R.D 118-119 /L | Village Buttar & Miani R.D 118-119 /L     | Shahbaz ahmad 0301-6166632        | 5                  | -     | 4                 | 3                        | 26                   |                               | -       |
| 10                            | Village Nagoor R.D 111-112 /L                                                                             |                | Village Nagoor R.D 111-112 /L         | Village Nagoor R.D 111-112 /L             | Shahbaz ahmad 0301-6166632        | 5                  | -     | 4                 | 3                        | 27                   |                               | -       |
| 11                            | RD.132+500 Daburgi Maliyan                                                                                |                | RD.132+500 Daburgi Maliyan            | RD.132+500 Daburgi Maliyan                | zafar Ahmad 03026167381           | 5                  | -     | 4                 | 3                        | 27                   |                               | -       |
| 12                            | Village Bopalwala R.D 75-76 /L                                                                            |                | Village Bopalwala R.D 75-76 /L        | Village Bopalwala R.D 75-76 /L            | Anwar yaseen 0333-8631577         | 5                  | -     | 4                 | 3                        | 27                   |                               | -       |

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| Flood Protection along Palkhu Nullah |                                                            |       |                                                      |                                               |                                     |    |    |    |    |    |   |
|--------------------------------------|------------------------------------------------------------|-------|------------------------------------------------------|-----------------------------------------------|-------------------------------------|----|----|----|----|----|---|
| 13                                   | M.R Link Canal syphon RD.47+075                            | -     | Palkhu Nullah                                        | M.R Link Canal R.D<br>47+075 Palkhu<br>Nullah | Sajjad Hussain Butt<br>0321-5540351 | 5  | -  | 4  | 3  | 27 | - |
| 14                                   | Marala Road to Gondal Road Askri<br>Bridge Chitti Sheikhan | -     | Marala Road to<br>Gondal Road Askri<br>Colony Bridge | Askri Colony Bridge<br>R.D 228+400            | Asif Sub Eng.<br>03217881465        | 5  | -  | 4  | 3  | 27 | - |
| 15                                   | D/S UCC TO Sial Air Port                                   | -     | D/S UCC TO Sial<br>Air Port                          | Near Sial Air Port                            | Sajjad Hussain Butt<br>0321-5540351 | 5  | -  | 4  | 3  | 27 | - |
| 16                                   | Dugri Nullah RD.23+000                                     | -     | RD.23+000                                            | RD. 23+000                                    | Sajjad Hussain Butt<br>0321-5540351 | 5  | -  | 4  | 3  | 27 | - |
|                                      | Total                                                      | 18.30 |                                                      |                                               |                                     | 68 | 11 | 55 | 45 |    |   |

120

# 14.6:- Police Deployment Plan

1

## Proforma 1

| Sr.#                          | Site of Breaching Section                                                                           | Concerned canal Division | Concerned Police Station and District | Police Persons Deployed     |           | Remarks if any                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------|-----------------------------|-----------|------------------------------------------------------|
|                               |                                                                                                     |                          |                                       | Inspector/Sub inspector/ASI | Constable |                                                      |
| PASRUR LINK DIVISION, SIALKOT |                                                                                                     |                          |                                       |                             |           |                                                      |
| 1                             | Right Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD 13+000 to 14+000 |                          |                                       | NOT APPLICABLE              |           |                                                      |
|                               |                                                                                                     |                          |                                       | Proforma 2                  |           |                                                      |
|                               | Vulnerable sites used for illegal cuts during floods                                                | Concerned canal Division | Concerned Police Station and District | Police Persons Deployed     | Constable | Remarks if any                                       |
| 1                             | R.D 98+000-111+000 L BRBD Link Canal                                                                | Pasrur link Division     | Strah District & Tehsil Sialkot       | 1                           | 4         | The peoples of adjoining area making cuts every year |
| 2                             | R.D 80+000-85+000 L BRBD Link Canal                                                                 |                          | Strah District & Tehsil Sialkot       | 1                           | 4         |                                                      |
|                               |                                                                                                     |                          |                                       | Proforma 3                  |           |                                                      |
|                               | Name of Barage                                                                                      | Concerned canal Division | Concerned Police Station and District | Police Persons Deployed     | Constable | Remarks if any                                       |
|                               | Not applicable                                                                                      | -                        | -                                     | -                           | -         | -                                                    |

**14.7:- Details of synthetic bags with capacity of 500 kg and 1000 kg**

| Sr.#                          | Name of Structure                                                                                                                  | Length in Mille | Vulaerable Reach                                | Camp Location                             | Site Incharge by Name & Cell No   | No. of Synthetic bags |         |          |         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------|-------------------------------------------|-----------------------------------|-----------------------|---------|----------|---------|
|                               |                                                                                                                                    |                 |                                                 |                                           |                                   | 500 Kg                | 1000 kg | 500 Kg   | 1000 kg |
|                               |                                                                                                                                    |                 |                                                 |                                           |                                   | Available             |         | Required |         |
| 1                             | 2                                                                                                                                  | 3               | 4                                               | 5                                         | 6                                 |                       |         |          |         |
| PASRUR LINK DIVISION, SIALKOT |                                                                                                                                    |                 |                                                 |                                           |                                   |                       |         |          |         |
|                               | Flood Protection along Deg Nullah                                                                                                  |                 |                                                 |                                           |                                   |                       |         |          |         |
| 1                             | Left Flood protection bund over Deg Nallah from Defence Embankment to Zafarwal Kingra road RD. 0 – 11250.                          | 2.13            | 11-12                                           | At Spur R.D 9+400                         | Muhammad Arshed 03006115311       | -                     | -       | 500      | 1000    |
| 2                             | Right Flood protection bund over Deg Nallah from Defence Embankment to Zafarwal Kingra road RD. 0 – 14500.                         | 2.90            | -                                               | -                                         | Muhammad Arshed 03006115311       | -                     | -       | -        | -       |
| 3                             | Left Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-27750                                          | 5.26            | 22-23                                           | At Spur R.D 9+400                         | Muhammad Arshed 03006115311       | -                     | -       | -        | -       |
| 4                             | Right Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-29600                                         | 5.61            | 6-7                                             | 13-14 Hanjli Bridge                       | Muhammad Arshed 03006115311       | -                     | -       | 500      | 1000    |
| 5                             | Right Marginal Bund RD.0- 18+100 along Deg Nullah                                                                                  | 3.62            |                                                 | R.D 220+122/L M.R Deg Rest House          | Ikhtisham 03237913501             | -                     | -       | -        | -       |
| 6                             | Left Marginal Bund along Deg Nullah R.D.0-20700                                                                                    | 3.92            | Left Marginal Bund along Deg Nullah R.D.0-20700 | R.D 220+122/L M.R Deg Rest House          | Ikhtisham 03237913501             | -                     | -       | -        | -       |
|                               | Flood Protection Bunds along Aik Nullah                                                                                            |                 |                                                 |                                           |                                   |                       |         |          |         |
| 6                             | Ura Bridge R.D 163+150 To 166+000 L&R                                                                                              | 1.39            | Ura Bridge R.D 163+150 To 166+000 L&R           | At Ura Brg Aik Nullah R.D 163+150         | Fawad Akhtar Sub eng: 03009613443 | -                     | -       | 500      | 1000    |
| 7                             | D/S Railway Bridge to Mohalah Shuja abad                                                                                           | -               | D/S Railway Bridge to Mohalah Shuja abad        | Aik Nullah D/S Railway Bridge R.D 149+500 | Fawad Akhtar Sub eng: 03009613443 | -                     | -       | 500      | 1000    |
| 14.8                          | Detail of Polythene sheets of Black colour to Protect upstream Slope Against Wave Action and to control Seepage through            |                 |                                                 |                                           |                                   |                       |         |          |         |
|                               | Polythene sheets of Black colour to Protect upstream Slope Against Wave Action to control Seepage (average 20 Ft width ) = 500 Rft |                 |                                                 |                                           |                                   |                       |         |          |         |

Note: The required quantity will be procured before establishing camp site in July 2020

14.8 :- Details of polythene sheets of black color to protect upstream slope against wave action and to control seepage through embankments

| Sr. #                         | Name of Structure                                                                                      | Length in Mile | Vulnerable Reach                                    | Camp Location                             | Site Incharge by Name & Cell No   | No. of Synthetic bags Available |   | Plastic Sheet (Sft) |   |
|-------------------------------|--------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------|-------------------------------------------|-----------------------------------|---------------------------------|---|---------------------|---|
|                               |                                                                                                        |                |                                                     |                                           |                                   | Required                        | 7 | 8                   | 9 |
| 1                             | 2                                                                                                      | 3              | 4                                                   | 5                                         | 6                                 |                                 |   |                     |   |
| PASRUR LINK DIVISION, SIALKOT |                                                                                                        |                |                                                     |                                           |                                   |                                 |   |                     |   |
|                               | Flood Protection along Deg Nullah                                                                      |                |                                                     |                                           |                                   |                                 |   |                     |   |
| 1                             | Right Flood Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-29600             | 5.61           | 6-7                                                 | 13-14 Hanjli Bridge                       | Muhammad Arshed 03006115311       | -                               | - | -                   | - |
| 2                             | Left Flood protection bund over Deg Nullah from Defence Embankment to Zafarwal Kingra road RD.0-11250. | 2.13           | 11-12                                               | At Spur R.D 9+400                         | Muhammad Arshed 03006115311       | -                               | - | -                   | - |
| 3                             | Left Flood   Protection Bund along Deg Nullah (from Kingra Road to Choor Bridge) RD.0-27750            | 5.26           | 22-23                                               | At Spur R.D 9+400                         | Muhammad Arshed 03006115311       | -                               | - | -                   | - |
| 4                             | Left Flood Protection Bund along Deg Nullah (from Dhir Pir Muhammad to Chak Raja) RD.0-15000           | 2.84           | from Dhir Pir Muhammad to Chak Raja) R.D .0 - 15000 | R.D 220+122/L M.R Deg Rest House          | Ikhtisham 0323-7913501            | -                               | - | -                   | - |
| 5                             | Left Marginal Bund along Deg Nullah R.D.0-20700                                                        | 3.92           | Left Marginal Bund along Deg Nullah R.D.0-20700     | R.D 220+122/L M.R Deg Rest House          | Ikhtisham 0323-7913501            | -                               | - | -                   | - |
|                               | Flood Protection Bunds along Aik Nullah                                                                |                |                                                     |                                           |                                   | -                               | - | -                   | - |
| 6                             | Ura Bridge R.D 163+150 To 166+000 L&R                                                                  | 1.39           | Ura Bridge R.D 163+150 To 166+000 L&R               | At Ura Brg Aik Nullah R.D 163+150         | Fawad Akhtar Sub eng: 03009613443 | -                               | - | -                   | - |
| 7                             | D/S Railway Bridge to Mohalah Shuja abad                                                               | -              | D/S Railway Bridge to Mohalah Shuja abad            | Aik Nullah D/S Railway Bridge R.D 149+500 | Fawad Akhtar Sub eng: 03009613443 | -                               | - | -                   | - |
| 8                             | Haji Pura Flood Protection Bund along Aik Nullah 0 - 12+500                                            | -              | Village Bogra                                       | Village Bogra                             | Fawad Akhtar Sub eng: 03009613443 | -                               | - | -                   | - |
| 9                             | Sialkot Daska Road Bridge                                                                              | -              | Sialkot Daska Road Bridge                           | Sialkot Daska Road Bridge                 | Shahbaz ahamad 0301-6166632       | -                               | - | -                   | - |
| 10                            | Village Buttar & Miani R.D 118-125 /L                                                                  | -              | Village Buttar & Miani R.D 118-125 /L               | Village Buttar & Miani R.D 118-125 /L     | Shahbaz ahamad 0301-6166632       | -                               | - | -                   | - |
| 11                            | Village Nagoor R.D 111-112 /L                                                                          | -              | Village Nagoor R.D 111-112 /L                       | Village Nagoor R.D 111-112 /L             | zafar Ahmad 03026167381           | -                               | - | -                   | - |
| 12                            | Village Dhane R.D 120-121/R                                                                            | -              | Village Dhane R.D 120-121/R                         | Village Dhane R.D 120-121/R               | zafar Ahmad 03026167381           | -                               | - | -                   | - |
| 13                            | Village Bopalwala R.D 75-76 /L                                                                         | -              | Village Bopalwala R.D 75-76 /L                      | Village Bopalwala R.D 75-76 /L            | Anwar yaseen 0333-8631577         | -                               | - | -                   | - |
|                               | Flood Protection along Palkhu Nullah                                                                   |                |                                                     |                                           |                                   | -                               | - | -                   | - |
| 14                            | M.R Link Canal Tq Chiti Sheikhan                                                                       | -              | M.R Link Canal To Chiti Sheikhan                    | M.R Link Canal R.D 47+075 Palkhu Nullah   | Sajjad Hussain Butt 0321-5540351  | -                               | - | -                   | - |

|                                                                                            |                                                |   |                                                |                                 |                                  |   |   |           |
|--------------------------------------------------------------------------------------------|------------------------------------------------|---|------------------------------------------------|---------------------------------|----------------------------------|---|---|-----------|
| 15                                                                                         | Marala Road to Gondal Road Askri Colony Bridge | - | Marala Road to Gondal Road Askri Colony Bridge | Askri Colony Bridge R.D 228+400 | Asif Sub Eng. 03217881465        | - | - | -         |
| 16                                                                                         | D/S UCC TO Sial Air Port                       | - | D/S UCC TO Sial Air Port                       | Near Sial Air Port              | Sajjad Hussain Butt 0321-5540351 | - | - | -         |
| NOTE: The polythene sheet will be procured according to the site condition where required. |                                                |   |                                                |                                 |                                  |   |   |           |
|                                                                                            |                                                |   |                                                |                                 |                                  |   |   | Page # 89 |

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14.8 :- Details of polythene sheets of black color to protect upstream slope against wave action and to control seepage through embankments

| 14.3.1 Details of polyethylene sheets or black color to protect upstream slope against wave action and to control seepage through embankments |                                                                                                                 |                   |                                                   |                                              |                                      |                    |       |                      |                             |                                     |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------|----------------------------------------------|--------------------------------------|--------------------|-------|----------------------|-----------------------------|-------------------------------------|----------------------------|
| Sr.#                                                                                                                                          | Name of Structure                                                                                               | Length<br>in Mile | Vulnerable Reach                                  | Camp Location                                | Site Incharge by<br>Name & Cell No   | Machinery Deployed |       |                      |                             | Availability<br>of Stone<br>Lac Cft |                            |
|                                                                                                                                               |                                                                                                                 |                   |                                                   |                                              |                                      | Excavator          | Dozer | Trolleys/<br>Dumpers | Tractor with<br>front blade |                                     | Lahour<br>beldar +<br>Mate |
| 1                                                                                                                                             | 2                                                                                                               | 3                 | 4                                                 | 5                                            | 6                                    | 7                  | 8     | 9                    | 10                          | 11                                  | 12                         |
| PASRUR LINK DIVISION, SIALKOT                                                                                                                 |                                                                                                                 |                   |                                                   |                                              |                                      |                    |       |                      |                             |                                     |                            |
|                                                                                                                                               | Flood Protection along Deg Nullah                                                                               |                   |                                                   |                                              |                                      |                    |       |                      |                             |                                     |                            |
| 1                                                                                                                                             | Right Flood Protection Bund along Deg Nullah<br>(from Kingra Road to Choor Bridge) RD.0-29600                   | 5.61              | 6-7                                               | 13-14 Hanjli Bridge                          | Muhammad Arshed<br>03006115311       | 1                  | -     | 4                    | 1                           | 18                                  | -                          |
| 2                                                                                                                                             | Left Flood protection bund over Deg Nullah from<br>Defence Embankment to Zafarwal Kingra road<br>RD. 0 - 11250. | 2.13              | 11-12                                             | At Spur R.D 9400                             | Muhammad Arshed<br>03006115311       | -                  | -     | -                    | -                           | -                                   | 0.46185                    |
| 3                                                                                                                                             | Right Flood Protection Bund along Deg Nullah<br>(from Kingra Road to Choor Bridge) RD.0-29600                   | 5.26              | 22-23                                             | At Spur R.D 9400                             | Muhammad Arshed<br>03006115311       | -                  | -     | -                    | -                           | -                                   |                            |
| 4                                                                                                                                             | Left Flood Protection Bund along Deg Nullah                                                                     |                   | -                                                 | R.D 220+122/L M.R Deg Rest<br>House          | Ikhisham<br>03237913501              | 1                  | 1     | 2                    | 1                           | 4                                   | -                          |
| 5                                                                                                                                             | Left Marginal Bund along Deg Nullah R.D.0-20700                                                                 | 3.92              | -                                                 | R.D 220+122/L M.R Deg Rest<br>House          | Ikhisham<br>03237913501              | -                  | -     | -                    | -                           | -                                   | -                          |
|                                                                                                                                               | Flood Protection Bunds along Aik Nullah                                                                         |                   |                                                   |                                              |                                      |                    |       |                      |                             |                                     |                            |
| 6                                                                                                                                             | Ura Bridge R.D 163+150 To 166+000 L&R                                                                           | 1.39              | -                                                 | At Ura Brg Aik Nullah R.D<br>163+150         | Fawad Akhtar Sub eng:<br>03009613443 | 1                  | -     | 2                    | 1                           | 12                                  | -                          |
| 7                                                                                                                                             | D/S Railway Bridge to Mohallah Shuja abad                                                                       | -                 | -                                                 | Aik Nullah D/S Railway Bridge<br>R.D 149+500 | Fawad Akhtar Sub eng:<br>03009613443 | 1                  | -     | 4                    | 1                           | 17                                  | -                          |
| 8                                                                                                                                             | Haji Pura Flood Protection Bund along Aik<br>Nullah 0 - 12+500                                                  | -                 | Village Bogra                                     | Village Bogra                                | Fawad Akhtar Sub eng:<br>03009613443 | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
| 9                                                                                                                                             | Sialkot Daska Road Bridge RD.132+500                                                                            | -                 | Sialkot Daska Road Bridge                         | Sialkot Daska Road<br>Bridge                 | rafar Ahmad<br>03026167381           | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
| 10                                                                                                                                            | Village Buttar & Miani R.D 118-119 /L                                                                           | -                 | Village Buttar & Miani R.D<br>118-125 /L          | Village Buttar & Miani<br>R.D 118-125 /L     | rafar Ahmad<br>03026167381           | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
| 11                                                                                                                                            | Village Nagoor R.D 111-112 /L                                                                                   | -                 | Village Nagoor R.D 111-112<br>/L                  | Village Nagoor R.D 111-<br>112 /L            | Shahbaz Ahmad<br>0301 6166632        | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
| 12                                                                                                                                            | Village Bopalwala R.D 75-76 /L                                                                                  | -                 | Village Bopalwala R.D 75-<br>76 /L                | Village Bopalwala R.D 75-<br>76 /L           | Anwar yaseen<br>0331 8631577         | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
|                                                                                                                                               | Flood Protection along Pakhu Nullah                                                                             |                   |                                                   |                                              |                                      |                    |       |                      |                             |                                     |                            |
| 13                                                                                                                                            | M.R Link Canal at Machi Khokar                                                                                  | -                 | M.R Link Canal To Chiti<br>Sheikhan               | M.R Link Canal R.D<br>47+075 Pakhu Nullah    | Sajjad Hussain Butt<br>0321-5540351  | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
| 14                                                                                                                                            | Marala Road to Gondal Road Askri Colony<br>Bridge                                                               | -                 | Marala Road to Gondal<br>Road Askri Colony Bridge | Askri Colony Bridge R.D<br>228+400           | Asif Sub Eng.<br>03217881465         | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
| 15                                                                                                                                            | Chitti Sheikhan                                                                                                 |                   | Marala Road to Gondal<br>Road Askri Colony Bridge | Askri Colony Bridge R.D<br>228+400           | Asif Sub Eng.<br>03217881465         | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
| 16                                                                                                                                            | D/S UCC TO Sial Air Port                                                                                        | -                 | D/S UCC TO Sial Air Port                          | Near Sial Airport                            | Sajjad Hussain Butt<br>0321-5540351  | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
| 17                                                                                                                                            | Dugri Nullah                                                                                                    |                   |                                                   |                                              | Sajjad Hussain Butt<br>0321-5540351  | 1                  | -     | 2                    | 1                           | 17                                  | -                          |
| Total                                                                                                                                         |                                                                                                                 | 18.30             | RD.23+000                                         |                                              |                                      | 14                 | 1     | 32                   | 14                          | -                                   | -                          |

**CHAPTER NO. 15 :- BACK UP OF DIVISION, (IN CASE OF BREACH)**

In case of Emergency, Flood Bund Division, Narowal will be back up Division, for Left Flood Embankment along Deg Nullah from Defence Embankment to RD.220+122 MR Link Canal Pasrur Link Division, Sialkot



**Sub Divisional Officer,**  
Rawal Link Sub Division,  
Sialkot.



**Executive Engineer,**  
Pasrur Link Division,  
Sialkot.



OFFICE OF THE  
CHIEF ENGINEER DRAINAGE & FLOOD ZONE  
IRRIGATION DEPARTMENT

Government Engineering Academy Punjab, Canal Bank Road,  
Thokar Niaz Beg, Lahore – 53700,  
E-mail: [cednf@yahoo.com](mailto:cednf@yahoo.com) Ph.042-99233551

To

✓  
The Executive Engineer,  
Pasrur Link Division,  
Sialkot.

No.D&F/2020/ 1070 /25/76

Dated 7 / 04 /2020

**SUBJECT: FLOOD FIGHTING PLAN 2020.**

The flood Fighting Plan 2020 received from your Division is hereby vetted after scrutiny.

Therefore, you are requested to circulate the same copies of Flood Fighting Plan 2020, duly signed by Chief Engineer and Superintending Engineer to all stakeholders as well as 04 copies (soft copy through e-mail: [cednf@yahoo.com](mailto:cednf@yahoo.com)) to this office and 01 copy to Director, Hydraulic Structure Safety Evaluation Cell situated at Government Engineering Academy Punjab, Thokar Niaz Baig, Lahore.

  
**DIRECTOR FLOOD**  
For Chief Engineer, Drainage & Flood Zone  
Irrigation Department Punjab Lahore

C.C:

Chief Engineer, Irrigation Lahore Zone, Lahore.