



**GOVERNMENT OF THE PUNJAB
IRRIGATION DEPARTMENT**

PASRUR LINK DIVISION, SIALKOT

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To,

1. The Federal Flood Commission, Office of the Chief Engineer, Advisor/Chairman Federal flood commission Islamabad.
2. The Secretary to Government of the Punjab, Irrigation Department, Lahore
3. The Flood Relief Commissioner, Lahore.
4. Punjab Disaster Management Authority, Lahore
5. The Chief Engineer, Drainage & Floods Lahore (4) Copy
6. The Chief Engineer, Irrigation Lahore Zone, Lahore (3) Copy
7. The Executive Engineer (OP), Lahore Zone, Lahore
8. Director Hydraulic Structure Safety Elevation Cell, Government Engineering Academy Punjab, Lahore.
9. The Commissioner, Gujranwala Division, Gujranwala
10. The Superintending Engineer, Link Circle, Lahore
11. The Director Flood, Lahore
12. The Executive Engineer, UCC Marala
13. The Executive Engineer, Rachna Drainage Division Sheikhpura
14. The Executive Engineer, Flood Bund Division Narowal
15. District Coordination Officer Narowal
16. The District Police Officer, Narowal
17. Headquarter Engineer, 30-corps, Gujranwala
18. The Head Quarter 8-Div: Sialkot
19. The Head Quarter 15-Div: Sialkot
20. The District Co-ordination Officer, Sialkot
21. The District Police Officer, Sialkot.
22. The Assistant Commissioner, Sialkot.
23. The Assistant Commissioner, Sambrial.
24. The Assistant Commissioner, Daska.
25. The Assistant Commissioner, Pasrur.
26. The Sub Divisional Officer, Rawal Link Sub Division, Sialkot
27. The Sub Divisional Officer, Baddomalhi Link Sub Division, Deg Rest House.
28. The Sub Divisional Officer, Goraya Sub Division, Daska.
29. The Sub Divisional Officer, Daska Drainage Sub Division, Daska.


No. **625-53** / 100-G

Dated: **02/06/** /2021

Subject: FLOOD FIGHTING PLAN FOR THE YEAR 2021

Please find enclosed herewith copy of flood fighting plan 2021 of Pasrur Link Division Sialkot after vetting from Chief Engineer Drainage & Flood vide his letter No. D&F / 2021 / 2004 / 25 / 76 Dated: 07-04-2021 for information and further necessary action Please.

DA
Flood Fighting Plan 2021


Executive Engineer,
Pasrur Link Division,
Sialkot.

GOVERNMENT OF THE PUNJAB
IRRIGATION DEPARTMENT



FLOOD FIGHTING PLAN 2021

PASRUR LINK DIVISION SIALKOT

LINK CIRCLE LAHORE

IRRIGATION ZONE LAHORE



CHIEF ENGINEER DRAINAGE & FLOOD ZONE
IRRIGATION DEPARTMENT
Government Engineering Academy Punjab, Canal Bank Road
Thokar Niaz Baig, Lahore-53700,
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CP-227

To

The Executive Engineer,
Pasrur Link Division,
Slalkot.

No.D&F/2021/ 2004 /25/76

Dated 07/04/2021.

Subject: FLOOD FIGHTING PLAN 2021.

Ref: Your office letter No. 343/100-G dated 24.03.2021.

The Flood Fighting Plan 2021 received from your Division is hereby vetted after scrutiny.

Therefore, you are requested to circulate the same copies of Flood Fighting Plan 2021, duly signed by Chief Engineer and Superintending Engineer to all stakeholders as well as 04 copies (soft copy through e-mail; 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.

o/c


DIRECTOR FLOOD

for Chief Engineer, Drainage & Flood Zone
Irrigation Department, Lahore

C.C.

1. Chief Engineer, Irrigation Lahore Zone, Lahore.
2. Superintending Engineer, Link Circle, Lahore.

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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 area falling between Chenab River and Ravi River. The area comes under 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 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 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 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 said natural Nullahs intercept 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 cross drainage works inundates 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 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 inlets if water level in e canal allows 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 Sheikhupura, 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	Abdul Rehman Sub Divisional Officer, Rawal Link Sub Division Sialkot	Sialkot	0300-6402011
2	Yasir Saleem Sub Divisional Officer, Baddomalhi Link Sub Division Deg Rest House	RD 220+122 MR Link Canal Deg Rest House	0333-4764275
3	Shabir Hussain Sub Divisional Officer, Goraya Sub Division Daska	R.D. 19 + 786 / L BRBD Link Canal at Daska	0300-4589972

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. 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 flood protection bunds along Deg Nullah from Defense 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)	Palkhu Nullah & Pathanwali Drain
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 LOC	Sialkot Daska Road Bridge RD.132+500 Aik Nullah	Assist Sub Engineer, Colony Section

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

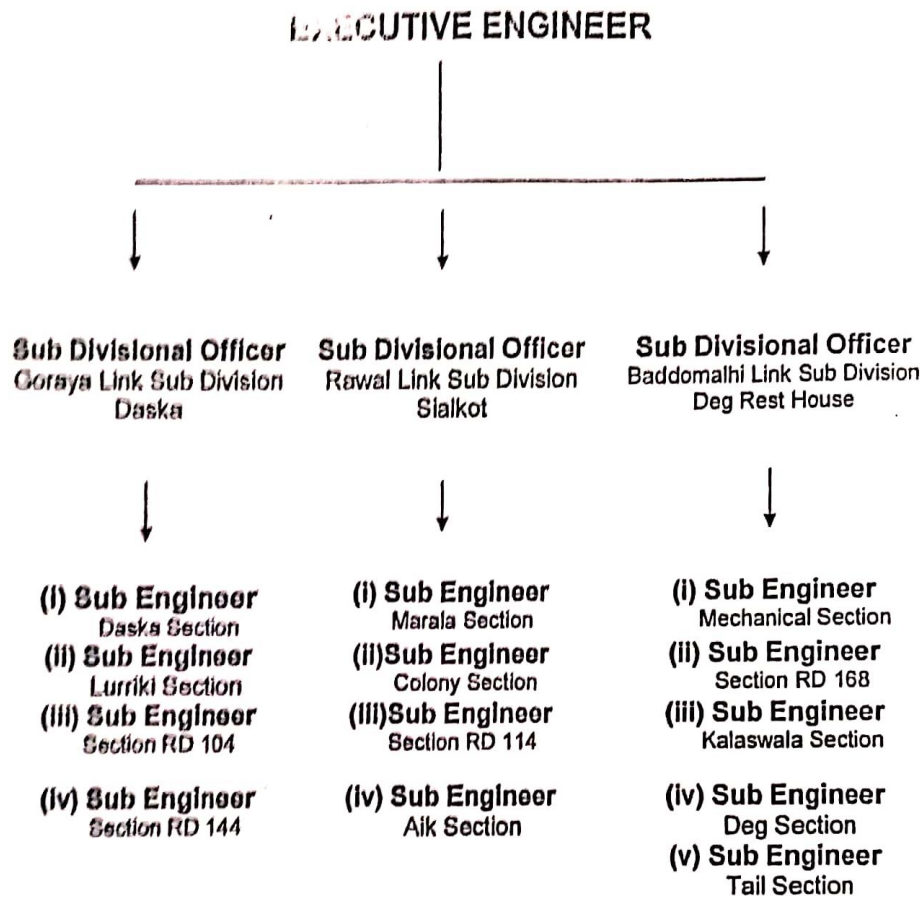
This Sub Divisional Officer is in-charge of BRBD Link Canal from RD 0+500 to RD178+000 with his Headquarter at its RD.20/L Daska. Inlets have been constructed at RD 17-18/L, 25-26/L and RD 100-101/L to drain out flood water accumulated along left bank of BRBD Link. Hasri Nullahs I and II cross BRBD Link 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
1	Sub Engineer Daska Section	RD 0-50 / BRBD Link	RD 20 BRBD Link (Sialkot-Gujranwala Road)
2	Sub Engineer Lumke 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.

The Sub Divisional Officer is in-charge of Daska Drainage Sub Division Daska look after Drains and Natural Nullahs falls in District Sialkot. Revamping of department, Daska Sub Division is administratively attached with newly constituted drainage division i.e Gujarawala Drainage Division Gujranwala. All associated drains & Nullah also transferred along with sub divisional setup.

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, Slalkot

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.0-29800	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 Alk Nullah						
1	City Flood Protection Bund along Alk Nullah R.D.0-7340	1.47	1964	10.0	3:1	2:1
2	Mallah Chak Flood Protection Bund along Alk Nullah R.D.0-31500	6.30	1984	20.0	3:1	2:1
3	Haji Pura Flood Protection Bund along Alk Nullah R.D.3900-12500	1.72	1984	5.0	3:1	Pacca Wall
4	Alk Nullah Drain Bund 0-49+700	9.94	1991	15	3:1	3:1



IRRIGATION DEPARTMENT PUNJAB

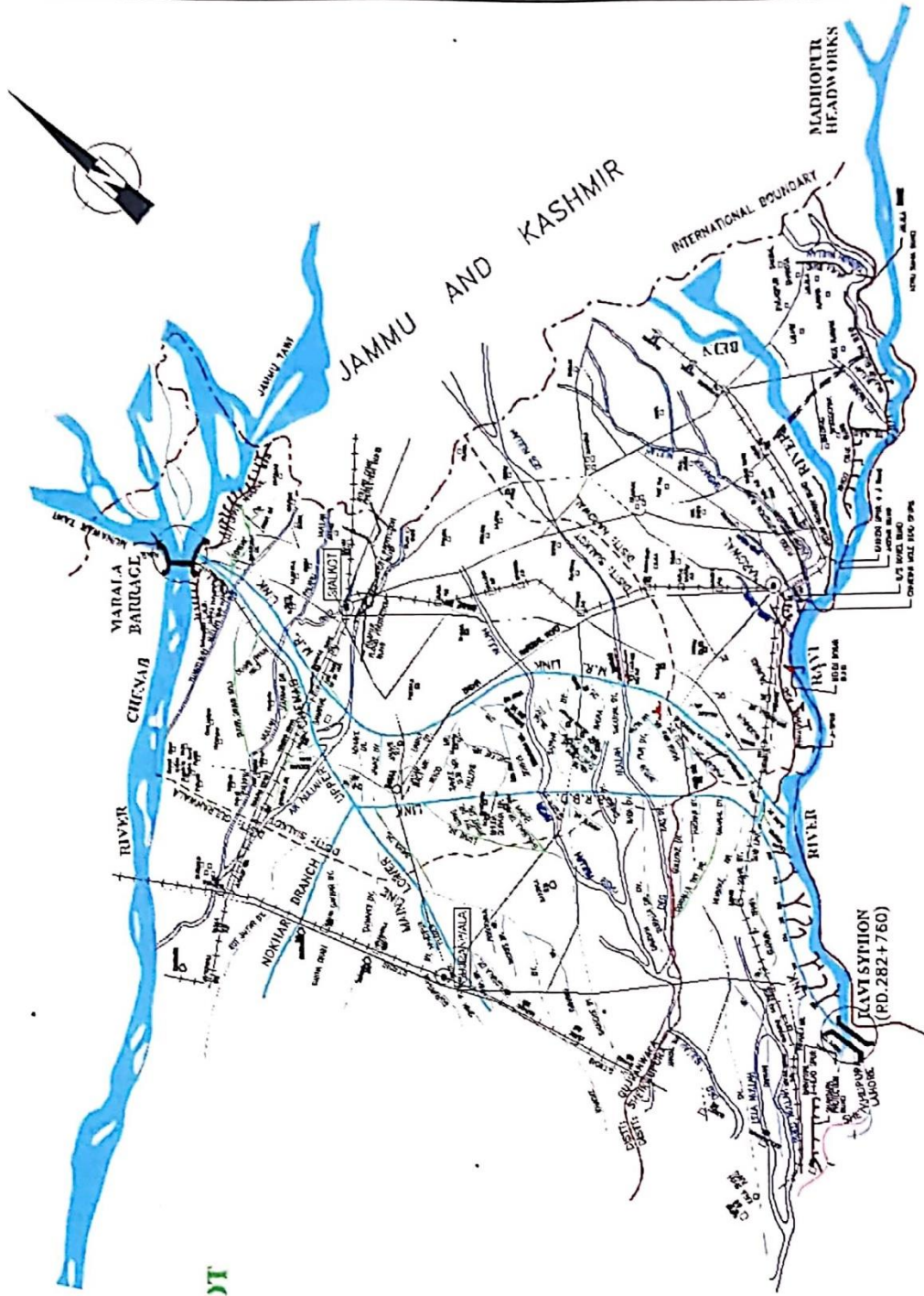
INDEX PLAN

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 washed in reach RD 4500-5400 and a ring bund was constructed for passage of flood to save further damage. The winter rains also played havoc as 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 nose of spur RD 4500. During monsoon 2007, there were small freshets of low flood intensity in Deg and Aik Nullah, which passed safely without causing any damage to infrastructures in area.

FLOOD 2008:

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

FLOOD 2009:

During flood season 2009, abnormal flood was received in Deg Nullah with high magnitude velocity. The duration of high flood was also more than 18 hours. These longer duration and high velocity attacked bunds in different reaches. Flood fighting was carried out by the department successfully to save 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" was taken up for safety of people and properties of adjoining villages as well as government infrastructures i.e. Bridges culverts roads, schools, etc.

FLOODS 2010:

During 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 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 morning hours at 08:30 AM and attacked severely on eroded bank in reach RD 8+000 to 9+000. The duration of peak spanned up to 30 hours. Due to abrupt change in flow behavior of Deg Nullah, velocity of flood water as experienced was 10-12 ft / sec.

FLOODS 2011:

During 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 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 recorded and attacked severely on shank and mole head Spurs No. 3 & 4. The stone aprons of Spurs were launched during freshet which were restored later on.

FLOODS 2012:

During 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 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.

Flood resulted due to heavy rain fall in catchment areas of Nullahs in India occupied Jammu & Kashmir. The water spilt out from e banks of these Nullahs. This water hit MR Link Canal on left bank. A part of this water passed through syphons and inlets upto their design capacities and balance was accumulated along left banks, there by

damaging the crops, properties and even human lives. This inundation urged inhabitants to cut bank of canal at their own. This event was 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 farmers of 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 heavy rainfall spell in catchment area of Deg Nullah started in 2nd week of July 2015 and flow began to increase gradually. The flood having high magnitude about 33329 Cs on 10.07.2015 in Deg Nullah was recorded.

Due to meandering action of flow in Nullah, 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 spur RD. 7+000/L and launched/damaged apron of said spur.

Afterwards, flood water at U/S Hanjli Bridge, caused launching /damaging pitching and apron of flood protection bund and guide bank of bridge which was protected by dumping of stone on war footed basis.

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, 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.

A parallel flow along right side on Haji Pura flood Protection Bund was observed during exceptionally high flood and eroded some patches of protection

wall. The erosion occurred at R.D 135-136 resultantlly brick wall in a length of 130 ft on Hajl Pura Bund was collapsed.

A series of breaches occurred D/S Daska Road Bridge where 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, spilled 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 receiving of flood.

FLOOD 2017 ON AIK NULLAH:

Aik Nullah is widened upto 160 ft and banks are constructed on both sides of Nullah upto Bridge RD.102+990 which is also to be widened under Flood Protection of Sialkot Against Aik & Palkhu Nullah project. There is a gap of about 100 ft on left side of under construction embankment due to the graveyard of Christian community. On 1st August, 2017, flood was received in Aik Nullah at mentioned point i.e. RD.103+000 and water spilled through this gap. the spilled water flowed along periphery of village Ismail Awan and will ultimately opted its natural route and crossed siphon of MR Link. No damages were observed at site.

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 Punjab, resultantlly collision of monsoon and western seasonal low pressure coming from Behra-e-Arab, 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 hitted 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 trees and sand bags 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 hilly catchment area across border and enters in Pakistan territory from occupied Jammu & Kashmir near Vains village in East of Sialkot city. The design Discharge of Nullah was 1000 Cs, but maximum observed Discharge on 06-09-2014 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. Flood water overtopped between RD.216-217/L but controlled on 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. Keeping in view above situation, construction of three 3 No. spurs for protecting site were approved and constructed at site.

Flood 2019 IN DEG NULLAH:

A freshet of 12200 Cs hit 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 embankment.

FLOOD 2020 IN PALKHU NULLAH

A freshet of 4525 Cs was observed on 28-08-2020 hit Right bank at RD. 222+300 /R and breach occurred. Flood Fighting was done by bamboos, plastic bags, corrugated sheets and strengthen of breach site by deploying machinery through earth fill.

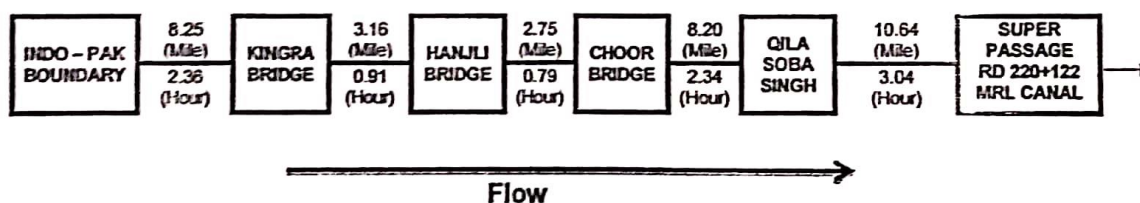
Chapter # 4.

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 at Kingra Road Bridge	10000	10000 to 15000	15000 to 22000	22000 to 30000	0.30000 to above
AIK NULLAH 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 CHOOR BRIDGE	2.75	0.79
4	Deg Nullah	CHOOR 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
2020	-	-	-	-	-	4525 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 SUPPER PASS, DE 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
2020	-	-	4525 Cs	-

Chapter # 5.

FLOOD FIGHTING STRATEGY

FLOOD FIGHTING STRATEGY AT DIFFERENT LIMITS OF AIK, PALKHU & DEG NULLAH:

Heavy floods are expected in Nullah Aik, Palkhu & Deg. Strict watching arrangement will be started by 15th June 2020. According to scale fixed by department as per flood fighting plan. The pre-flood arrangements necessarily required are given below.

STAGE-I

i. Low Flood: -

Deg Nullah	Aik Nullah	Palkhu Nullah
10000	2000	1000

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

STAGE-II

ii. Medium Floods.

Deg Nullah	Aik Nullah	Palkhu Nullah
10000-15000	2000-9000	1000-1500

Supervisory staff will be same as in Stage-I.

STAGE-III

iii. High Floods

Deg Nullah	Aik Nullah	Palkhu Nullah
15000-30000	9000-16000 Cs	1500-2500

Supervisory staff will be same as in Stage-I. Additional mechanical machinery i/c excavators, front blade tractors, tractors with trolleys would be hired to control situation as per requirement.

STAGE-IV

iv. Exceptional High floods.

Deg Nullah	Aik Nullah	Palkhu Nullah
Above 30000 Cs	Above 16000 Cs	Above 2500 Cs

Watching establishment would be increased from 1st Three stage as per requirement. Similarly, additional mechanical machinery i/c excavators, front blade tractors, tractors with trolleys would be hired to control situation as per requirement.

CHAPTER # 6.

FLOOD DAMAGES RESTORATION WORKS

LIST OF WORK EXECUTED DURING THE YEAR 2020-21 UNDER THE HEAD OF A13501-EMBANKMENTS:

Sr. No	Name of Work	Amount	Startling Date	Completion Date
1	Providing & Deploying Machinery in Reach RD 210 to 235 on Palku Nullah.	1.13	26-08-2020	30-09-2020
2	Repairing damaged banks of Aik Nullah between RD. 100+000 to RD. 101+000 during flood season 2020	0.507	26-12-2020	26-01-2021
3	Providing & Deploying Machinery Deg Nullah RD 220+122 of MR Link Canal (Flood Season 2020)	0.465	26-08-2020	30-09-2020
4	Protection of flood bunds U/S Kingra bridge at Nullah Deg	24.062	Tenders will be called soon	-
5	Repairing/Protection of RMB along Nullah Deg b/w RD. 11+000 to RD. 13+000 against erosion action U/S super passage MR Link Canal	26.128	Tenders will be called soon	-
6	Repairing/restoration of LMB along Nullah Deg U/S super passage at RD.220+122 MR Link Canal RD. 0+000 to RD. 20+770	19.875	8/3/2021	Work Will be Completed in April 2021

CHAPTER # 7.

FLOOD FIGHTING WATCHING ARRANGEMENT

7.1:- Re-shuffling/recouping plan of reserve stone departmentally.					
Sr. #	Name of Site / Location	Minimum requirement i.e. 70%	Sanctioned Limit	Available Quantity	Remarks
Flood Protection along Deg Nullah					
1	Left Flood protection bund choor Bridge to Kingra Bridge	0.486	0.695	0	Funds has been demanded from competent authority
2	Right flood protection bund choor Bridge to Kingra Bridge	0.210	0.300	0	
3	Right flood protection bund U/S Kingra Bridge	0.262	0.375	0	
4	Left flood protection bund U/S Kingra Bridge	0.210	0.300	0.219	
5	21 No. Spurs of 200 ft length (21x200)	0.231	0.330	0.242	
Total Quantity		1.4	2.000	0.462	
CONSOLIDATE STATUS OF RESERVE STOCK OF STONE REGARDING PASRUR LINK SUB DIVISION, SIALKOT					
	Sanctioned reserve stock of limit (Lac Cft)	Available Quantity (Lac Cft)	Deficient Balance quantity	Remarks.	
	2.000	0.462	1.538	Funds has been demanded from competent authority	

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

7.2 Pre- Flood Arrangements:

All bunds are inspected by a Committee constituted by the Secretary to Government of Punjab, Irrigation Department in month of May of every year. Inspection of all bunds and spurs by the Team of Military personals is also carried out before flood season to ensure that bunds are safe against 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, and

R.D 220+122 Deg Rest House at Deg Nullah, Ura Bridge RD.163+150 and super passage of M.R. Link Canal RD.97+000 at Aik Nullah and Palkhu Nullah at RD 228+400 Askri Colony Bridge. Camps are established on all vulnerable sites to monitor 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 camp sites as per necessity.

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

7.3 Watching Establishment

In view of possibility of receiving timely flood warnings, precautionary measures have to be taken from 1st July to 15th 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 there is no flood event occurred, establishment will be utilized in filling rain cuts etc.

7.4 Arrangement at Sensitive Sites

Camps are established on vulnerable sites to monitor 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 camp sites as per necessity. 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, and R.D 220+122 Deg Rest House. Keeping in view possibility of receiving floods, precautionary measures have to be taken from 1st July to 15th October. Watching Establishment is employed for flood season as per limits of flood already fixed for various magnitude of Discharge in Deg, Aik & Palkhu Nullah.

7.5 WATCHING MATERIAL

Statement showing flood emergency stores at different camps:

Sr#	Description	unit	AIK NULLAH			PALKHU NULLAH			DEG NULLAH	TOTAL REQUIRED	AVAILABLE AT SITE	BALANCE REQUIRED
			RD.132+500 Sialkot Daska Road Bridge	MR Link Canal RD.220-122	Syphon RD.47+075 MR Link	RD.222-223	RD.100-101	At Hanjli Bridge				
1	2	3	5	8	10	12	13	14	15	16	17	
1	Nylon bags	No.	2500	2500	0	5000	2000	5000	17000	5000		12000
2	Bamboos or Ballies	No.	200	200	200	200	200	200	1200	90		1110
3	Kassies with handles	No.	5	5	5	5	5	5	30	0		30
5	Axes	No.	5	5	5	5	5	5	30	0		30
6	Hand saw	No.	1	1	1	1	1	1	6	0		6
7	Torches	No.	5	5	5	5	5	5	30	0		30
8	Cells for Torches	Dozen	5	5	5	5	5	5	30	0		30
9	Sootli	Kg	10	10	10	10	10	10	60	0		60
10	Shouldari	No.	1	1	1	1	1	1	6	0		6
11	Needles	No.	12	12	12	12	12	12	72	0		72
12	Generator set	No.	1	1	1	1	1	1	6	0		6
13	Nylon Rope	Kg	20	20	20	20	20	20	120	0		120
14	Umbrella	No.	5	5	5	5	5	5	30	0		30
15	Rain coat	No.	10	10	10	10	10	10	60	0		60
17	Water Cooler	No.	1	1	1	1	1	1	6	0		6
18	Search Lights with 100w	No.	2	2	2	2	2	2	12	0		12
19	Rain Long Shoes	No.	10	10	10	10	10	10	60	0		60

7.6 Arrangement for Sounding & Probing:

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

7.7 Lighting Arrangement:

Lighting accessories have also been arranged at Camp Site.

7.8 Ration Arrangement:

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

7.9 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.

7.10 Transportation:

Transportation will be arranged locally.

7.11 Law and Order:

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

7.12 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, Daska, Sambrial and District Headquarter Hospital Slalkot.

7.13 Liaison with other Department:

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

7.14 Role of the Army:

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

7.15 Duties of Telephone Attendant:

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

7.16 Wireless Arrangements:

No such arrangements are available in Pasrur Link Division.

CHAPTER # 3.

DETAIL OF ENCROACHMENT

Total No. of 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, Pulku Nullah & Pathanwali drain.
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.

On receipt of any flood warning from Flood Warning Center and provincial Disaster Management Authority, the flood controlling office at Sialkot under supervision of Flood Control Officer/ Sub Divisional Officer, Rawal Link Sub Division, Sialkot will inform will inform immediately to the following: -

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

- 9- District Police Officer, Sialkot
- 10- District Police Officer, Narowal.

Any un-wanted happening will be reported to Executive Engineer, Pasrur Link Division, Sialkot and all others concerned promptly.

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

CHAPTER #10. EMERGENCY TELEPHONE NUMBERS


Sr. No	Designation	Phone Numbers		Fax Number
		Office	Mobile No.	
1	Secretary Irrigation Department, Punjab.	042-99212117 042-99212118	0304-0920033	042-9212116
2	Chief Engineer, Irrigation, Lahore Zone, Lahore.	042-99212085 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	0321-4117766	042-99250308
6	Executive Engineer Pasrur Link Division Sialkot.	052-9250088	0321-5442494	052-9250089
7	Executive Engineer Flood Bund Division Narowal.	0524-412374	0304-0826776	054-2411685
8	Executive Engineer Marala Division U.C.C. Marala.	052-3502102	0333-8161746	052-3502120
9	Executive Engineer, Gujranwala Division UCC Gujranwala	055-9200199	0334-8112162	055-9200326
10	Deputy Commissioner Sialkot.	052-9250451 052-9250452	0304-0920065	052-9250453
11	Deputy Commissioner Narowal.	0542-412500	0304-0920067	054-2412075
12	District Police Officer Sialkot.	042-9250321 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	0345-4583285	052-9250089
16	Flood Control Centre, Flood Relief Officer Sialkot.	052-9250467	-	-
17	Meteorological Department Jail Road Lahore.	042-99200208 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 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 92-50338	-	-
26	Army Flood Emergency Gujranwala.	-	-	-
27	PDMA Sialkot.	052-9250011	0321-7281003	

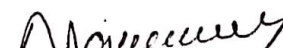
CHAPTER # 11.

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.

PART - B

Chapter # 12.

Vulnerable Sites on Flood Bunds / Structures

Site # 1 (Deg Nullah):

- i. Left & Right Flood Protection Bund along Deg Nullah U/S Choor Bridge to Defense Embankment (i/c Kingra Bridge U/s Left & Right Flood Bunds). **Annexure-A1**
- ii. Left & Right marginal bund along Deg Nullah U/S super passage RD.220+122 MR Link Canal **Annexure-A2**

Site # 2 (Aik Nullah):

- i. U/S Daska Road Bridge RD.132+500 to 163+150 including spill guide bund. **Annexure-B1**
- ii. Slalkot Daska Road Bridge RD.132+500 to 97+500 MR Link Canal. **Annexure-B2**

Site # 3 (Palkhu Nullah):

- i. RD.63+000 to 180+000 **Annexure-C1**
- ii. RD.190+500 to 264+000. **Annexure-C2**

Site # 4 (Pathanwali & Daska Drain II)

Annexure-D

Site # 5 (M.R Link Canal Syphons & Inlets)

Annexure-E

12.1 Apprehended Breaches in Flood Bund / Structures:

Nil.

12.2 Operation of Breaching Sections:

There is no breaching section in Pasrur Link Division Slalkot

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

Site No.1 (i):

Left & Right Flood Protection Bund along Deg Nullah U/S Choor Bridge to Defense Embankment (i/c Kingra Bridge & U/S Left & Right Flood Bunds).

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, 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 onset of flood season.

13.3.2 Establishment of Flood Fighting Camps

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

13.3.3 Duties of Officers / Officials and their Camp sites

In-charge of site is Abdul Rehman Sub Divisional Officer, Rawal Link Sub Division and his contact No. is 0300-6402041. under overall supervision of Executive Engineer, Pasrur Link Division, and Sialkot

The name of in-charge Sub Engineer along with his establishment is given below: -

Sr. #	CAMP SITE/REACH	LOCATION	INCHARGE OF SITE WITH ESTABLISHMENT	CELL NO
1	At Hanjli Bridge	Deg Nullah	Muhammad Arshad Sub Engineer Beldars. = 10 No. Gauge Reader = 02 No. Chowkidar = 02 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

i. **U/S Choor Bridge To Hanji Bridge**

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 as per need bases.

ii. **Kingra Bridge & U/S Left & Right Flood Bunds**

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 as per need bases.

13.3.6

**STATUS OF FLOOD FIGHTING MATERIAL FOR
VULNERABLE SITE NO. 1 (i) AT HANJLI BRIDGE ON
DEG NULLAH:**

Sr #	Description	unit	DEG NULLAH At Hanjli Bridge	AVAILABLE AT SITE	BALANCE REQUIRED	Remarks
1	2	3	4	5	6	7
1	Nylon bags	No.	5000	1000	3400	Deficient material will be procured before flood season 2021
2	Bamboos or Ballies	No.	200	Nil	200	
3	Kassis with handles	No.	5	Nil	5	
5	Axes	No.	5	Nil	5	
6	Hand saw	No.	1	Nil	1	
7	Torches	No.	5	Nil	5	
8	Cells for Torches	Dozen	5	Nil	5	
9	Sootli	Kg	10	Nil	10	
10	Shouldari	No.	1	Nil	1	
11	Needles	No.	12	Nil	12	
12	Generator set	No.	1	Nil	1	
13	Nylon Rope	Kg	20	Nil	20	
14	Umberlla	No.	5	Nil	5	
15	Rain coat	No.	10	Nil	10	
17	Water Cooler	No.	1	Nil	1	
18	Search Lights with rods	No.	2	Nil	2	
19	Rain Long Shoes	No.	10	Nil	10	

13.3.7

**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

Vulnerable Site # 1 : (Deg Nullah)

i- Left & Right Flood Protection Bund along Deg Nullah U/S Hanjli Bridge to Defense Embankment (i/c Kingra Bridge U/S Left & Right Flood Bunds)



Site No.1 (ii):

Left & Right marginal bund along Deg Nullah U/S super passage
RD.220+122 MR Link Canal

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

Plan attached for vulnerable site No. 3 (Annexure – A2)

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

Khewa bajwa, Noorpur, kalaswala etc.

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

13.3.1 Arrangements

All arrangements start onset of flood season.

13.3.2 Establishment of Flood Fighting Camps

Camp is established at RD 220+122 M.R Link Canal (Deg Rest Houe) to monitor situation and to provide swift and disposal of any information related to flood situation in order to intimate prompt action by the Officers.

13.3.3 Duties of Officers / Officials and their Camp sites

In-charge of the site is Yasir Saleem Sub Divisional Officer, Baddomalhi Link Sub Division and his contact No. is 0333-4764275. The name of sub engineer in charge along with his establishment is given below: -

Sr. #	CAMP SITE	LOCATION	INCHARGE OF SITE WITH ESTABLISHMENT	CELL NO
1	RD.220+122 M.R Link (Deg Rest House)	M.R Link Canal	Ihtisham Sub Engineer Beldars. = 10 No. Chowkidar = 02 No.	0347-4610056

13.3.4 Departmental Machinery Available at Left & Right marginal bund along Deg Nullah U/S super passage RD.220+122 MR Link Canal

Nil.

13.3.5 Machinery Available From Private Source at Left & Right marginal bund along Deg Nullah U/S super passage RD.220+122 MR Link Canal

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 as per need bases.

13.3.6 STATUS OF FLOOD FIGHTING MATERIAL FOR VULNERABLE SITE NO. 1 (ii) AT CAMP RD.220+122 ON DEG NULLAH IS AS UNDER:

Sr#	Description	unit	MR Link Canal RD.220-122	AVAILABLE AT SITE	BALANCE REQUIRED	REMARKS
1	2	3	4	5	6	7
1	Nylon bags	No.	2500	170	2330	Deficient material will be procured before flood season 2021
2	Bamboos or Ballies	No.	200	50	150	
3	Kassis with handles	No.	5	Nil	5	
5	Axes	No.	5	Nil	5	
6	Hand saw	No.	1	Nil	1	
7	Torches	No.	5	5	0	
8	Cells for Torches	Dozen	5	Nil	5	
9	Sootli	Kg	10	Nil	10	
10	Shouldari	No.	1	Nil	1	
11	Needles	No.	12	Nil	12	
12	Generator set	No.	1	Nil	1	
13	Nylon Rope	Kg	20	Nil	20	
14	Umbrella	No.	5	Nil	5	
15	Rain coat	No.	10	Nil	10	
17	Water Cooler	No.	1	Nil	1	
18	Search Lights with rods	No.	2	Nil	2	
19	Rain Long Shoes	No.	10	Nil	10	

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 Classwala Road & Pasrur Dhooda Road
Buildings	Deg Rest House
Canals	M.R Link Canal
Drainage Network	No

Vulnerable Site # 1 : (Deg Nullah)

ii- Left & Right Marginal bund along Deg Nullah
U/S Super-Passage RD 220+122 MR Link Canal



Site No.2 (i) Aik Nullah:

U/S Daska Road Bridge RD.132+500 to 163+150 including spill guide bund

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, Sialkot City Area etc.

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

13.3.1 Arrangements:

All arrangements start onset of flood season.

13.3.2 Establishment of Flood Fighting Camps:

Camp is established at Daska Sialkot Road (Aik Nullah RD 132+500) to monitor the situation and to provide swift and disposal of any information related to flood situation in order to intimate prompt action by the officers.

13.3.3 Duties of Officers / Officials and their Camp sites:

In-charge of the site is Abdul Rehman Sub Divisional Officer, Rawal Link Sub Division and his contact No. is 0300-6402041. under overall supervision of Executive Engineer, Pasrur Link Division, Sialkot.

The name of in-charge Sub Engineer along with his establishment is given below: -

Sr. #	CAMP SITE/REACH	LOCATION	INCHARGE OF SITE WITH ESTABLISHMENT	CELL NO
1	Daska Road Bridge at Aik Nullah RD 132+500	Aik Nullah	Abdul Rehman Sub Engineer Beldars = 10 No. Gauge Reader = 02 No. Chowkidar = 02 No.	0334-8145435

13.3.4 Departmental Machinery Available at Urra Bridge RD.132+500 to163+150

Nil

13.3.4 Machinery Available from Private Source at U/S Daska Road Bridge RD.132+500 to 163+150 including Spill Guide Bund

The earth moving machinery i.e. 1 No. Excavator Machine, 2 No. tractor with trolley and 1 No. tractor with front blade will be made available from private source as per need bases.

13.3.6 STATUS OF FLOOD FIGHTING MATERIAL FOR VULNERABLE SITE NO. 2 (i) AT CAMP RD.132+500 SIALKOT DASKA ROAD BRIDGE

Sr#	Description	unit	RD.132+500 Sialkot Daska Road Bridge	AVAILABLE AT SITE	BALANCE REQUIRED	REMARKS
1	2	3	4	5	6	7
1	Nylon bags	No.	2500	Nil	2500	Deficient material will be procured before flood season 2021
2	Bamboos or Ballies	No.	200	Nil	200	
3	Kassiss with handles	No.	5	Nil	5	
5	Axes	No.	5	Nil	5	
6	Hand saw	No.	1	Nil	1	
7	Torches	No.	5	Nil	5	
8	Cells for Torches	Dozen	5	Nil	5	
9	Sootli	Kg	10	Nil	10	
10	Shouldari	No.	1	Nil	1	
11	Needles	No.	12	Nil	12	
12	Generator set	No.	1	Nil	1	
13	Nylon Rope	Kg	20	Nil	20	
14	Umberlla	No.	5	Nil	5	
15	Rain coat	No.	10	Nil	10	
17	Water Cooler	No.	1	Nil	1	
18	Search Lights with rods	No.	2	Nil	2	
19	Rain Long Shoes	No.	10	Nil	10	

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	Sialkot City Area
Canals	No
Drainage Network	Yes

Vulnerable Site # 2 : (Aik Nullah)

i- U/S Daska Road Bridge RD 132+500 to
RD 163+150 including spill guide bund.



Site No.2 (ii):

Sialkot Daska Road Bridge RD.132+500 to 97+500 MR Link Canal

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, Hagoor, Kotli Marlan etc.

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

13.3.1 Arrangements:

All arrangements start onset of flood season.

13.3.2 Establishment of Flood Fighting Camps:

Camp site is same as Site # 2 (i).

13.3.3 Duties of Officers / Officials and their Camp sites:

In-charge of the site is Abdul Rehman Sub Divisional Officer, Rawal Link Sub Division and his contact No. is 0300-6402041. under overall supervision of Executive Engineer, Pasrur Link Division, Sialkot.

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

Sr. #	CAMP SITE	LOCATION	INCHARGE OF SITE WITH ESTABLISHMENT	CELL NO
1	Daska Road Bridge Aik Nullah RD 132+500	Aik Nullah	Zafar Ahmad Sub Engineer Beldars. = 10 No.	0302-6167381

13.3.4 Departmental Machinery Available at Sialkot Daska Road Bridge RD.132+500 to 97+500 MR Link Canal

Nil.

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE AT SIALKOT DASKA ROAD BRIDGE RD.132+500 TO 97+500 MR LINK CANAL

The earth moving machinery i.e. 1 No. Excavator Machine, 2 No. tractor with trolley and 1 No. tractor with front blade will be made available from private source as per need bases.

13.3.6 STATUS OF FLOOD FIGHTING MATERIAL FOR VULNERABLE SITE NO. 2 (ii) AT CAMP OF SIALKOT DASKA ROAD BRIDGE AT AIK NULLAH IS AS UNDER:-

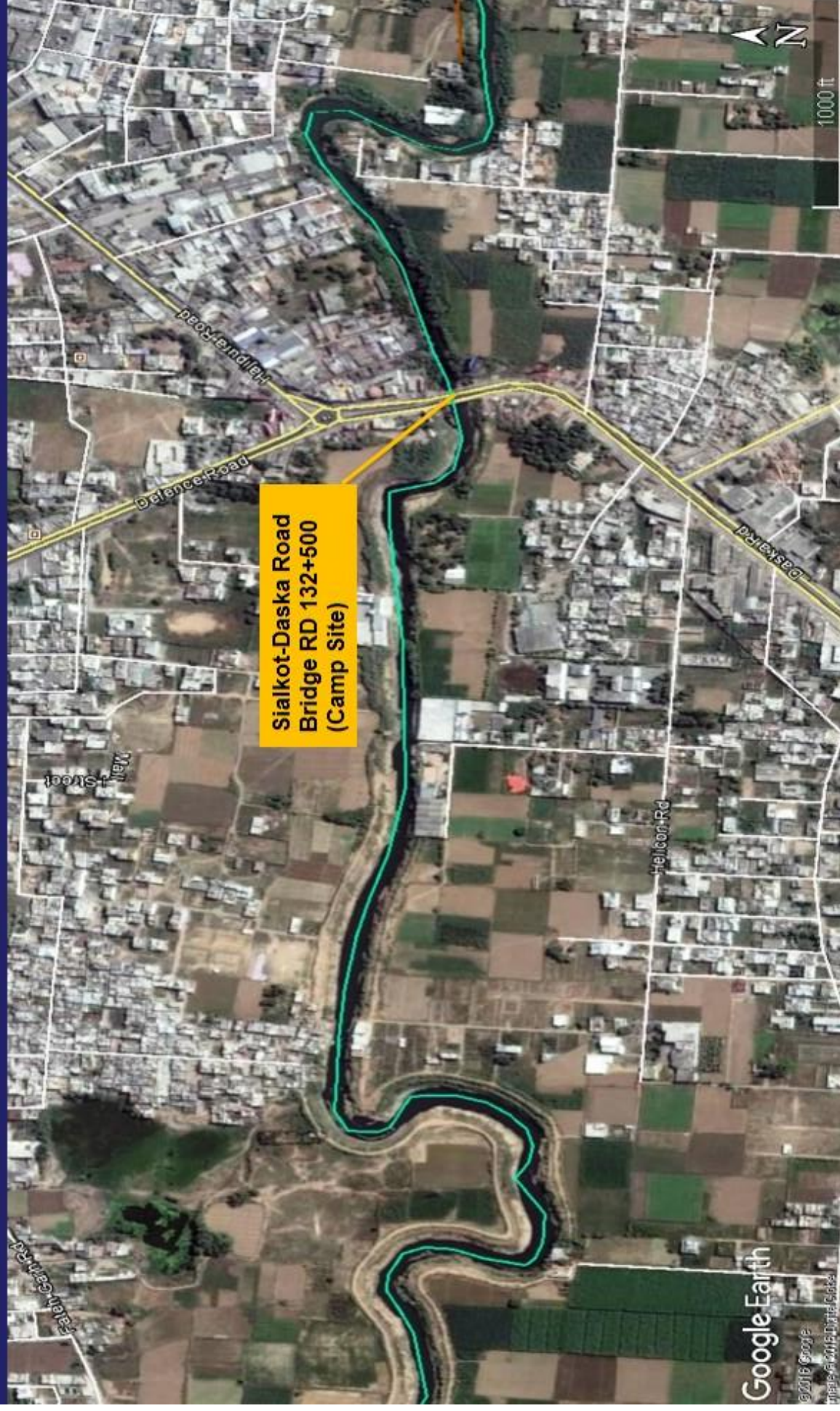
Flood fighting material of Site No. 2(i) will be utilized as per requirement

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. Schools & Rural Health Centres
Canals	No
Drainage Network	Yes

Vulnerable Site # 2 : (Aik Nullah)

ii- Sialkot - Daska Road Bridge RD 132+500 to
RD 97+500 MR Link Canal.



Site No.3 (i) Pulku Nullah:

Pulku Nullah RD. 63+000 to RD 180+000

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

Plan attached for vulnerable site No. 3 (Annexure – C1)

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

Sialkot International Airport, Sambrial, Sudhra, Paki Ghari, Kotli Mughlan, Ravella, Kotli Khokhan, Sarankey, Kimwali, Dharanwali, Chak Ajanta, Khambranwala etc.

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

13.3.1 Arrangements

All arrangements start onset of flood season.

13.3.2 Establishment of Flood Fighting Camps

No. need of establishment of flood camp.

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, Sialkot.

The name of in-charge of sub engineer along with his establishment is given below: -

Sr. #	CAMP SITE	LOCATION	INCHARGE OF SITE WITH ESTABLISHMENT	CELL NO
1	RD 222-223 Pulku Nullah	Palkhu Nullah	Muhammad Asif Sub Engineer Beldars. = 10 No.	0321-7881465 0332-8710 ^r 51

13.3.4 Departmental Machinery Available at at RD.63+000 to 180+000:

Nil.

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE AT RD.63+000 TO 180+000:

The earth moving machinery i.e. 1 No. Excavator Machine, 2 No. tractor with trolley and 1 No. tractor with front blade will be made available from private source as per need bases.

13.3.6 STATUS OF FLOOD FIGHTING MATERIAL FOR VULNERABLE SITE NO. 3 (i) RD.63+000 TO 180+000 ALONG PALKHU NULLAH IS AS UNDER:-

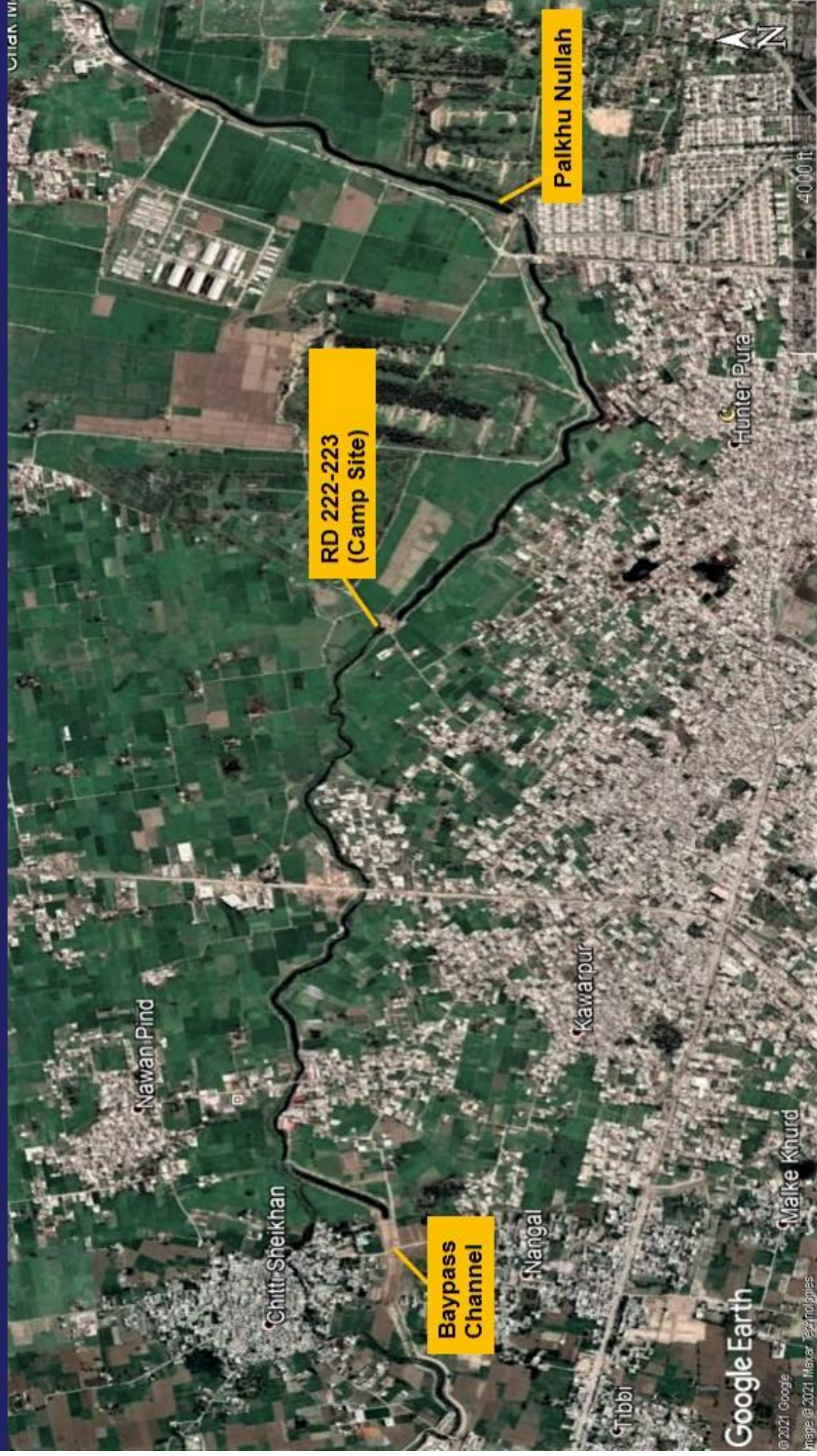
Flood frightening material of Site No. 3(ii) will be utilized as per requirement.

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 - Wazirabad Road, Sialkot Airport Road
Buildings	Sialkot Airport, Schools, Rural Health Centers
Canals	U.C.C Canal
Drainage Network	Yes

Vulnerable Site # 3 : (Palkhu Nullah)

i- RD. 63+000 to RD 180+000



Site No.3 (II):

Pulku Nullah RD .190+500 to RD 264+000

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

Plan attached for vulnerable site No. 3 (Annexure – C2)

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

Chata, Kapoorwali, Kala ghumna, Ghansarpur, Chitti Sheikhan, Nawapind Korpur Gohadpur Balanwala, Machikhokar, Sialkot Cantt & Dallowali etc.

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

13.3.1 Arrangements:

All arrangements start onset of flood season.

13.3.2 Establishment of Flood Fighting Camps:

Camp is established on RD 222 – 223, 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, Sialkot.

The name of in-charge sub engineer along with his establishment is given below: -

Sr. #	CAMP SITE	LOCATION	INCHARGE OF SITE WITH ESTABLISHMENT	CELL NO
1	RD.222-223	Palkhu Nullah	Muhammad Asif Sub Engineer Beldars. = 10 No. Chowkidar = 02 No.	0321-7881465

13.3.4 Departmental Machinery Available at RD .190+500 to 264+000:

Nil.

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE AT RD .190+500 TO 264+000:

The earth moving machinery i.e. 1 No. Excavator Machine, 2 No. tractor with trolley and 1 No. tractor with front blade will be made available from private source as per need bases.

13.3.6 STATUS OF FLOOD FIGHTING MATERIAL FOR VULNERABLE SITE NO. 3 (ii) AT CAMP OF RD 222-223 ALONG PALKHU NULLAH IS AS UNDER:-

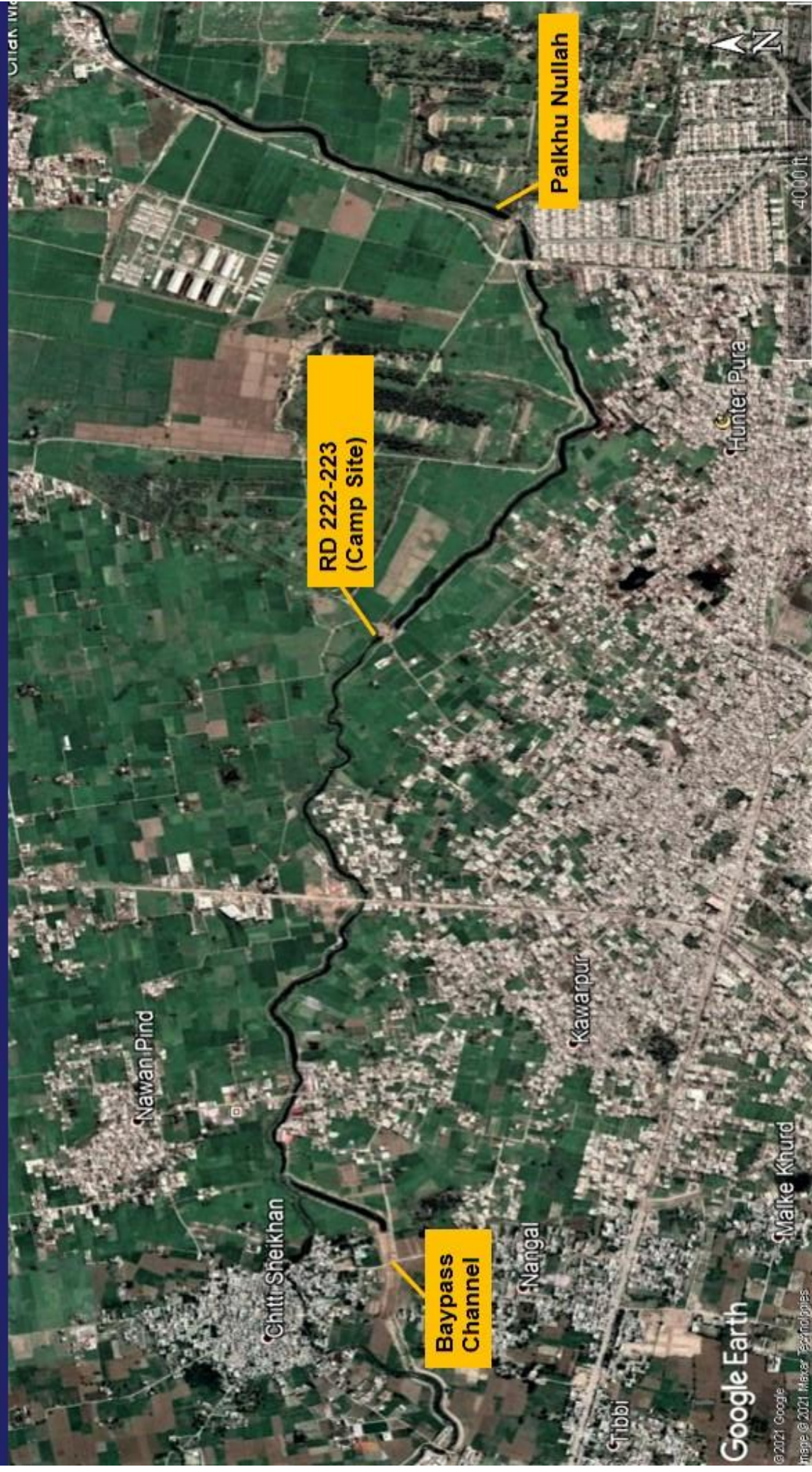
Sr#	Description	unit	RD.222-223	AVAILABLE AT SITE	BALANCE REQUIRED	REMARKS
1	2	3	4	5	6	7
1	Nylon bags	No.	5000	Nil	5000	Deficient material will be procured before flood season 2021
2	Bamboos or Ballies	No.	200	Nil	200	
3	Kassis with handles	No.	5	Nil	5	
5	Axes	No.	5	Nil	5	
6	Hand saw	No.	1	Nil	1	
7	Torches	No.	5	Nil	5	
8	Cells for Torches	Dozen	5	Nil	5	
9	Sootli	Kg	10	Nil	10	
10	Shouldari	No.	1	Nil	1	
11	Needles	No.	12	Nil	12	
12	Generator set	No.	1	Nil	1	
13	Nylon Rope	Kg	20	Nil	20	
14	Umbrella	No.	5	Nil	5	
15	Rain coat	No.	10	Nil	10	
17	Water Cooler	No.	1	Nil	1	
18	Search Lights with rods	No.	2	Nil	2	
19	Rain Long Shoes	No.	10	Nil	10	

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, Sialkot-Kuluwal Road
Buildings	Cantonment Board Area
Canals	M.R Link Canal
Drainage Network	Yes

Vulnerable Site # 3 : (Palkhu Nullah)

ii- RD. 190+500 to 264+000



Site No.4 :

Pathanwali & Daska Drain II

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

Plan attached for vulnerable site (Annexure – D)

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

Jodewali, Gunna, Puragpur, Mandianwali, Partanwali, pirochak, Daoke etc

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

13.4.1 Arrangements:

All arrangements start onset of flood season.

13.3.2 Establishment of Flood Fighting Camps:

No need of establishment of flood camp.

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 in-charge sub engineer along with his establishment is given below: -

Sr. #	CAMP SITE	LOCATION	INCHARGE OF SITE WITH ESTABLISHMENT	CELL NO
1	Daska-Sialkot Road Bridge Aik Nullah RD 132+500	Aik Nullah	Fawad Akhtar Sub Engineer Beldars. = 5 No.	0346-0407818

13.3.4 Departmental Machinery Available at Pathanwali & Daska Drain II:

Nil.

13.3.5 Machinery Available From Private Source at Pathanwali & Daska Drain II:

The earth moving machinery i.e. 1 No. Excavator Machine, 2 No. tractor with trolley and 1 No. tractor with front blade will be made available from private source as per need bases.

13.3.6 STATUS OF FLOOD FIGHTING MATERIAL FOR VULNERABLE SITE ALONG PATHANWALI DRAIN IS UNDER:-

Flood fighting material at site No. 1(ii) will be utilized in-case of emergency.

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-Pasrur Road, Sialkot-Eman Abad-Road, Lahore-Sialkot Motorway
Buildings	Schools, Rural Health Centers etc.
Canals	M.R Link Canal
Drainage Network	Yes

Vulnerable Site # 4 : (Pathanwali & Daska Drain-II)

i- Pathanwali & Daska Drain-II



Site No.5 :

M.R Link Canal Syphons & Inlets

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

Plan attached for vulnerable site (Annexure – E)

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

Jattan, Kala Ghumana, Jorrian, Gunjariwali, Kotli Marlan, Motra, Pandori, Kotli Dasu Singh etc.

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

13.4.2 Arrangements:

All arrangements start onset of flood season.

13.3.2 Establishment of Flood Fighting Camps:

No need of establishment of flood camp.

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 in-charge sub engineer along with his establishment is given below: -

Sr. #	CAMP SITE	LOCATION	INCHARGE OF SITE WITH ESTABLISHMENT	CELL NO
1	RD 222-223 Pulku Nullah	Pulku Nullah	Zafar Ali Sub Engineer Beldars. = 10 No.	0300-6441407

13.3.4 Departmental Machinery Available at M.R Link Canal

Syphons & Inlets:

Nil.

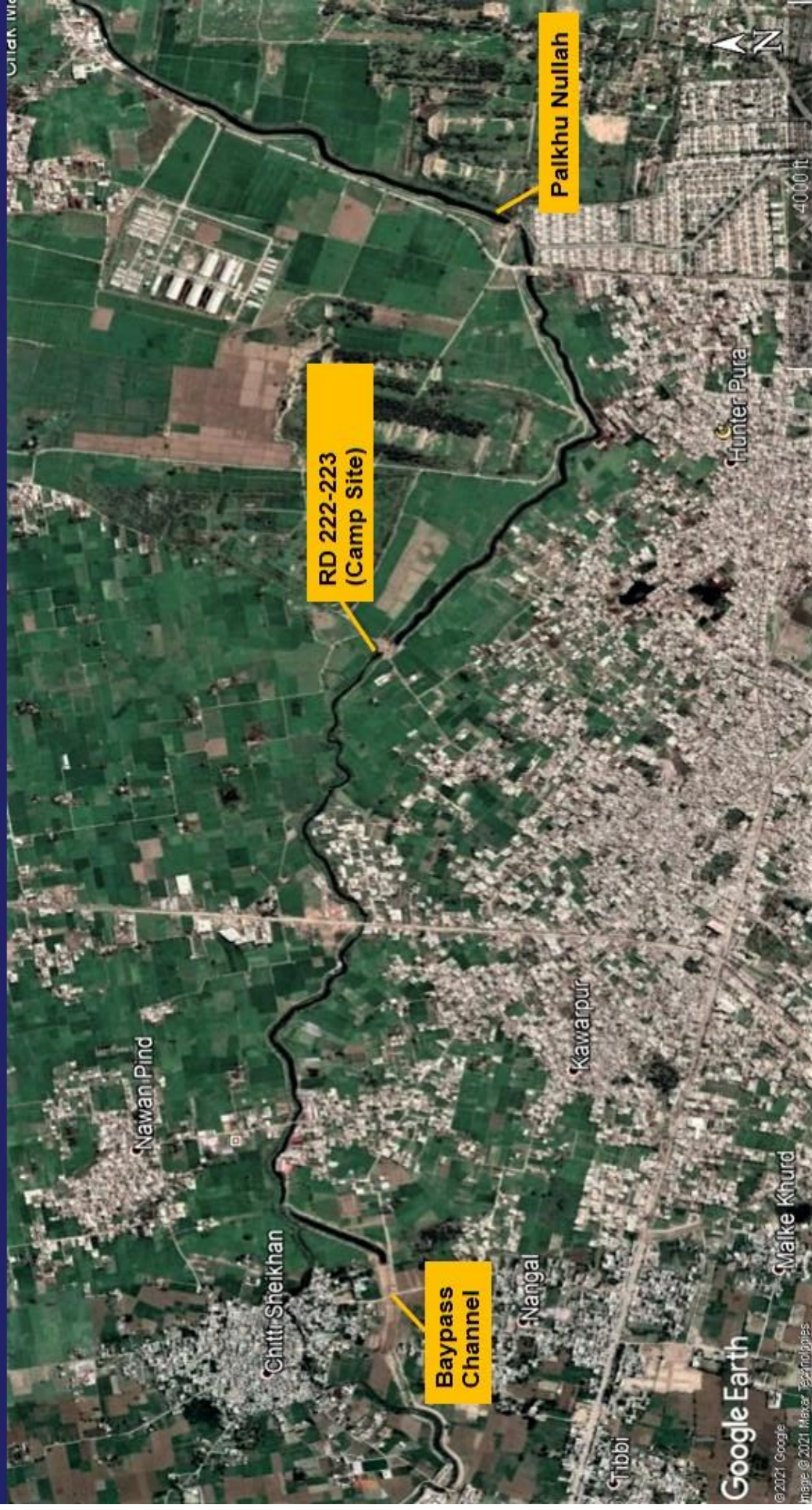
13.3.5 Machinery Available From Private Source at M.R Link

Canal Syphons & Inlets:

The earth moving machinery i.e. 1 No. Excavator Machine, 1 No. tractor with trolley and 1 No. tractor with front blade will be made available from private source as per need bases.

Vulnerable Site # 5 : (MR Link Canal Syphons & Inlets)

i- MR Link Canal Syphons & Inlets





13.3.6 STATUS OF FLOOD FIGHTING MATERIAL R
VULNERABLE SITE NO. 3 (iv) AT CAMP RI 4
ALONG PATHANWALI DRAIN IS AS UNDER:-


Flood fighting material at site No. 3(ii) will be utilized in-case of emergency.

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

Electric Installation	Yes
Sui Gas Installation	No
Telephone Installation	Yes
Road Network	Sialkot-Wazirabad Road, Sialkot-Daska Road
Buildings	Schools, Rural Health Centers etc.
Canals	M.R Link Canal
Drainage Network	Yes


Executive Engineer
Pasrur Link Division
Sialkot


Superintending Engineer
Link Circle, Lahore


Chief Engineer
Irrigation Lahore
Lahore