

FLOOD CONTINGENCY PLAN 2018 DISTRICT NAROWAL



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FOREWORD

The need of this document arose when it was realized in view of the inevitable need of enhanced cooperation amongst all agencies/stakeholders to be able to discharge their respective duties in an officious and befitting manner. Therefore, a moderate attempt has been made to incorporate all operational details into the document, upto micro management level i.e. SOPs specifying roles and responsibilities of different agencies, a status check on their operational preparedness level vis-à-vis their existing resource position, status of existing flood protection infrastructure, efficacy of existing early warning systems and a pragmatic account of Relief Sectors/Relief Camps.

Overall objective of the Flood Plan is to provide a conceptual framework for "Rescue, Relief and Rehabilitation" activities through benchmarking of standards and to enable the Civil Administration to be able to take "Informed Decisions", in the event of floods in River Ravi or any of the tributary streams (Nullahs). The document provides useful insights as to how it should be possible to responded within the shortest possible response time to able to minimize extent of devastation, through optimization of available human/material resources, hedging of losses and better coordination amongst concerned agencies, in the event of any flood related situation.

(Ali Anan Qamar)
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Chapter 1

INTRODUCTION

District Narowal was originally carved out of District Sialkot on 1st of July 1991 and now consists of Tehsil Narowal, Shakargarh and Zafarwal. The district is traditionally flood prone, with River Ravi, Nullah Ujh, Basantar, Bain and Deg, crisscrossing its revenue limits. Flood season usually starts from 1st July and persists uptill the 2nd week of October. Preparation for such eventuality is a standard practice with the District Government and strenuous efforts are involved in mobilizing human and material resources, in order to be able to pre-empt any disaster and to carry out relief measures in an organized manner. For this purpose, a comprehensive Flood Plan has been developed so that precious lives and properties can be protected from the devastations of flood.

1.1 OBJECTIVES

Objectives of the Flood Plan are to develop a framework for rescue, relief and rehabilitation activities with a view to:

- i. Save precious lives and properties.
- ii. Enable those located in vulnerable areas in moving their livestock/cattle.
- iii. Minimize human misery and sufferings.
- vi. Protect installations of sensitive nature.

1.2 RAVI RIVER AND TRIBUTARY STREAMS/NULLAHS

River Ravi originates in the basin of Banga Hills having 3460 sq. miles of catchment area and then flows into Chamba District of Himachal Pradesh. After leaving the hilly region, it enters into Pathan Kot, District Gurdaspur at Chundh and after passing through Gurdaspur District, it enters into Pakistan territory near Kot Nainan



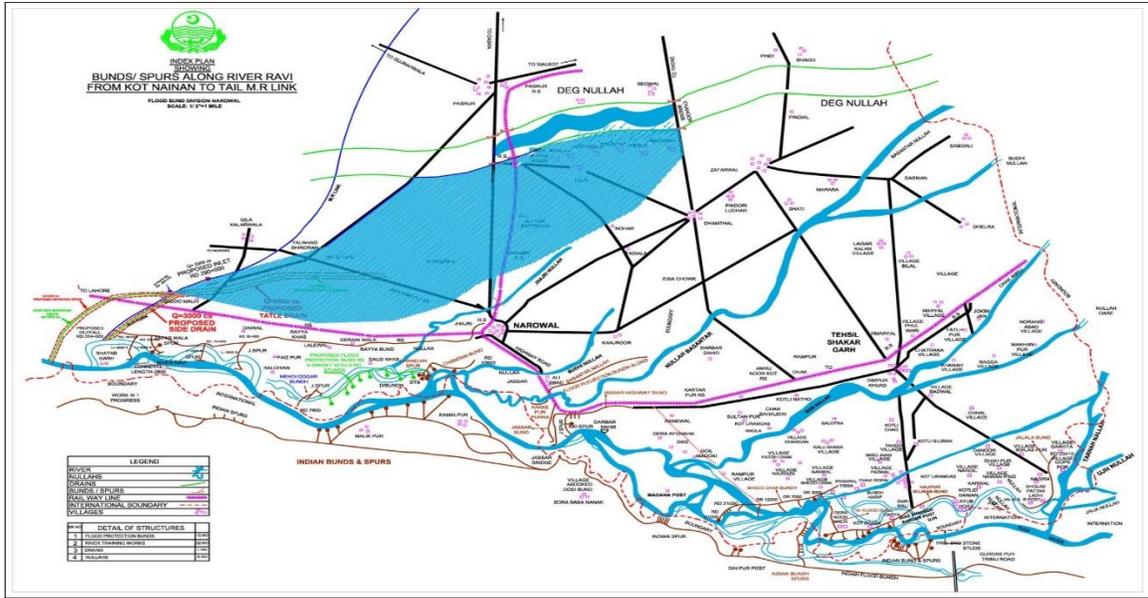


Figure 1: Lay Out of All Flood Bunds on River Ravi and its Tributaries in Dist Narowal

in Tehsil Shakargarh, District Narowal. After leaving Narowal District, the River enters into District Sheikhpura near Burj, and then again passes through Amritsar District of India. After running for 10 miles in Indian Territory, the river again enters into Pakistan territory near the village Aulian Pur of Sheikhpura District and reaches Shahdara, after travelling a distance of 114 km, downstream Jassar bridge. The River has the following principal tributaries capable of over flooding, within District Narowal’s revenue limits [1].

Sr. #	Name of Tributary	Length in Miles	Average slope 1000 ft.	Catchment area in sq. mile	Likely maximum Discharge in cusecs	Out-falling at
1	Ujh Nullah	80	31.6	675	249000	U/S Jassar Bridge
2	Bein Nullah	48	5.9	346	128000	U/S Jassar Bridge
3	Basantar Nullah	45	6.4	224	83000	D/S Jassar Bridge

Table 1: Tributaries of River Ravi

1.3 NULLAH DEG

In addition to above tributaries of River Ravi, high discharge in Deg Nullah also affects considerable area of district Narowal near Zafarwal, Jaistiwala, Qila Ahmad Abad and downstream villages of Baddo Malhi.



Figure 2: Hanjli Bridge, Deg , Zafarwal at 35000 Cusecs

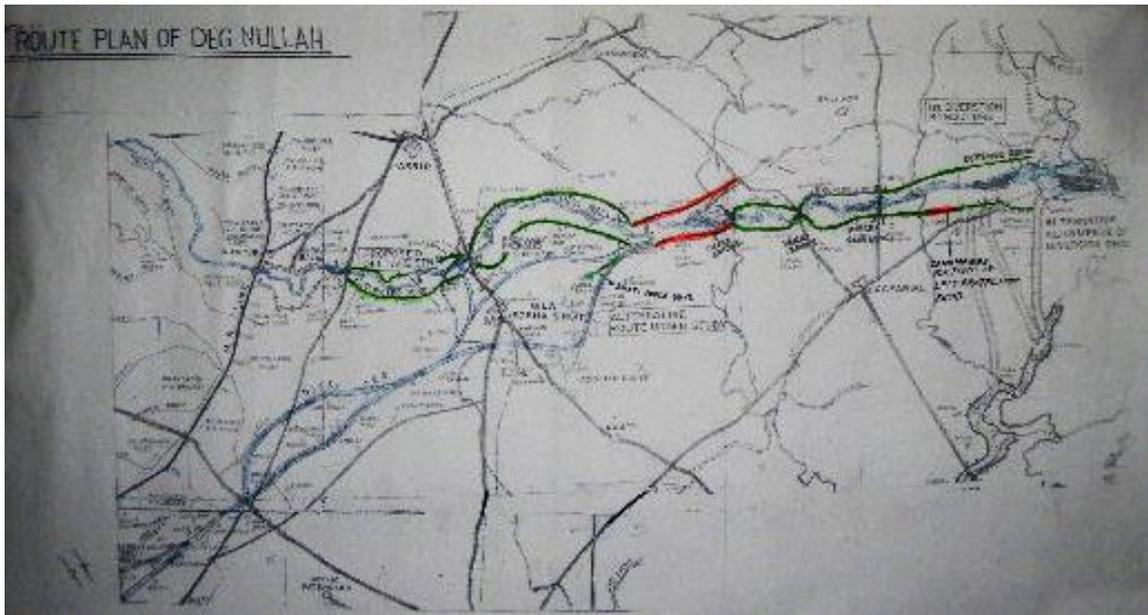


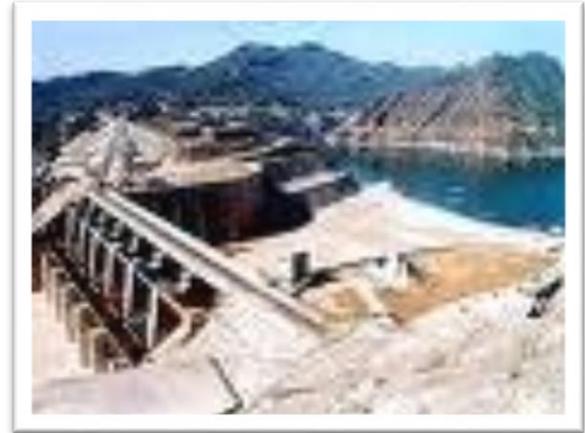
Figure 3: Route of Nullah Deg in the territorial limits of District Narowal

1.4 INFRASTRUCTURE ON RIVER RAVI IN INDIAN TERRITORY

According to IRSA sources, River Ravi runs a distance of 100 km from the Madhopur headworks, before entering into Pakistani territory at Kot Nainan near Haji Pur Gujran Bund. Following dams/headworks have been constructed by the Indian Authorities, in order to control and regulate water in River Ravi in the Indian Territory.

1.4.1 Thein Dam

Ranjit Sagar Dam (Thein dam) is a gigantic Multipurpose River valley Project constructed on river Ravi, 24 km upstream of Madhopur Headworks. Construction of Ranjit Sagar Dam is a part of the total plan for utilization of water of three eastern rivers namely Sutlej, Beas and Ravi, for irrigation and Power generation. Ranjit Sagar Dam is located in a gorge section of river Ravi.



1.4.1.1 Salient Features of Thein Dam [2]

Catchment area	6086 sq. km
Reservoir area	87.00 sq. km.
Gross Storage capacity	3280 million cum
Live storage capacity	2344 million cum
Dam Type	Earth core-cum-gravel shell dam
Top level of the Dam	EL 540.00 m
Maximum height of dam	160.00 m.
Length at Top of the dam	617.00 m.
Width at top of the dam	14.00 m
Maximum width at base of the dam	669.2 m
Normal reservoir level	527.91 m.
Clear water-way of spillway	109 m.
Crest level of spillway	EL 511 .7 m.
Maximum outflow	24637 cumecs
Spillway design flood	20678 cumecs
No. of Penstock Headers	2
No. of Penstock Branches	4
Dia of each Penstock Header	8.5 m.
Dia of each Penstock Branches	5.17 m.
Type of turbines	Vertical Shaft Francis
Maximum net head	121.9 m.
Minimum net head	76.0 m.

1.4.2 Madhopur Headwork's

Madhopur Headworks is a part of one of the oldest and most effective irrigation systems, developed during the British rule 150 years ago. Due to recent renovation work, removal of silt after 55 years, painting of gates with anti-corrosive paints and changing of



pulleys, the storage capacity of Madhopur Headworks is being restored to optimum level. Now the headworks can store 15000 cusecs of water for four to five hours. Therefore, even if water is stopped at Ranjit Sagar dam, the headworks can still feed water to its subsidiary canals for four to five hours [3]

1.4.3 Shahpur -Kandi Barrage/Dam

Storage capacity of Shahpur Kundi Barrage/dam is 13,000 Acre Feet.

1.5 TIME LAG STATEMENT

S.No.	Site	Distance miles	Time Lag in hours	Cumulative Aggregate
1	Madhopur to Haji Pur Gujran Bund Near Kot Nainan	40	06	06
2	Haji Pur Gujran Bund to Bheeko Chak Flood Bund	10	3	09
3	Bheeko Chak Flood Bund to Jassar Bridge	12	04	13
4	Jassar Bridge to Ravi Siphon	38	10	23
5	Ravi Siphon to Shahdara Bridge	33	11	34
6	Shahdara Bridge to Balloki Headworks	64	19	53
7	Balloki Headworks to Sidhnai Headworks	240	75	128

Table 2: Time Lag Statement of River Ravi from Madhupur to Sidhnai Headworks

1.6 FLOOD LIMITS OF RIVER RAVI AND ITS TRIBUTARIES

Sr.No	Site	Low (Cs)	Medium (Cs)	High (Cs)	Very High (Cs)	Exceptionally High (Cs)
1.	Ujh at Jalalla	15000 to 30000	30000 to 50000	50000 to 75000	75000 and 100000	868ft and above
2.	River Ravi at Haji Pur Gujran	830ft.	834ft	836ft.	838ft	839ft and above
3.	River Ravi at Jassar	50000 to 75000	75000to 100000	100000 to 150000	150000to 200000Cs	200000Cs and above
4.	Bain at Shakargarh Bridge	1600 to 3000 Cs	3000to 24000	24000to 26000Cs	26000to 43000Cs	43000Cs and above
5.	Basantar at RailwayBridge Narowal	700 to 4700	4700 to 7500	7500to 11600Cs	11600to 17800Cs	17800Cs and above
6.	Deg at Qila Ahmad Abad	3600 to 7500Cs	7500 to 15000	15000 to 36000 Cs	36000 Cs and above	-

Table 3: Flood Limits of Ujh, Ravi, Bain, Basantar and Deg

1.7 CATCHMENT AREAS AND FLOOD PATTERN IN RIVER RAVI.

Most of the Catchment area of River Ravi and its tributary streams, falls within the Indian Territory. There are a number of flood protection structures constructed both by India and Pakistan along both sides of River Ravi. Consequently, the River runs in the form of loops and snake bends along international boundary. Due to limited meandering width, the river behavior is aggressive.

According to satellite imagery studies carried out over a period of 20 years (between 1972–1973 and 1991–1993), the River coursing along the India–Pakistan border, meanders substantially in the alluvial plains of the Amritsar and Gurdaspur Districts of Indian Punjab, causing considerable damage in the Indian Territory as a result of change in course of the River. The reason attributed to this change in the course of the river is massive river training structures/bunds constructed close to the old course of the River. The shift in the course of the River has been reported to be 4.8 kilometer (3.0 miles) towards India.

Chapter 2

FLOOD PROTECTION INFRASTRUCTURE IN DISTRICT NAROWAL

A persistent pattern of low to medium floods in River Ravi, Deg, Bain, Basantar Nullahs, has consistently been noticed and therefore, a number of protection bunds have been constructed at all vulnerable points. Besides, flood warning posts at most critical points have also been established as per detail given below:

2.1 FLOOD PROTECTION BUNDS ON RIVER RAVI

Following flood protection bunds have been constructed by the Government of the Punjab, Irrigation department, on River Ravi and tributary streams (Nullahs).

- i) **Jalala Bund In Tehsil Shakargarh:** Jalala Bund starts from village Baharwal and end at Jalala, this bund protects about 100 villages of Tehsil Shakargarh from erosive action of Nullah Ujh, which is major active tributary of River Ravi. The Bund eroded near the village from Attu Chak Jhander to Viraich BC during floods of 2017 , resultantly the width of bund at this point decreased form 20 feet to 10 feet only which was very alarming. To elaborate, the reach in between RD 14+000 to 17+000 of Jalala Flood Bund came under direct action of the flood in year 2017. Emergent work was carried out in time and promptly during flood season of 2017 under para 2.89 of PWD Clause (emergency work) , which resulted in flood protection of about 100 villages of Tehsil Shakargarh and resultantly no loss to the public and private infrastructure occurred. This emergent work was not limited to construction of 03 number solid stone studs which effectively countered parallel flow of Nullah along the toe of the bund. The Executive Engineer Flood Bund Division Narowal, elaborated that efforts are underway



to construct two more studs before start of flood season of 2018 to avert any damage in future, subject to availability of funds.

ii) CHAKRA BUND

-Chakra Bund is situated on Nullah Bain near village Chakra. This bund has partially established which needs more extension 400 to 500 feet, subject to availability of funds. During flood season of 2016, the flood water over flowed which caused huge damages to crops of the area. The flood water also damage Narowal – Shakargarh road near Bustan and Mundikhail. However, during year 2016, 3 No.s mole head construed along the Chakra Bund to protect from direct hit of flood water. During flood season of 2017, the Chakra Bund remained safe from the flood water. The condition of this bund is satisfactory, however there is a need to extend the bund in a length of about 1000 ft. and to construct 02 more spurs before upcoming flood season for complete protection of the area, subject to the availability of funds.

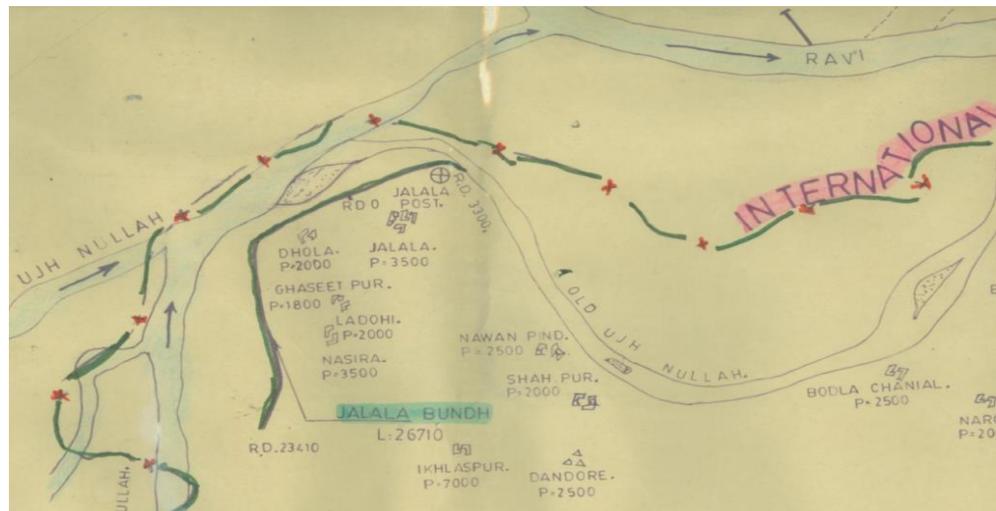
iii) SHAH PUR CHANJORA

Erosion is being made by the Nullah Bain near village Shah Pura Chanjura during the floods of 2017. There is possibility of erosion of the Abadi of the Said Mauza. A scheme to protect the village abadies of Shah Pur Chanjora was approved by the Irrigation Department but work could not be carried out due to non-availability of funds. The summary has been sent to Cabinet Division on advise of P&D Department by Irrigation Department for arrangement of funds, after which work may be started after completing the tendering process. Under this scheme 5 No's solid stone stud shall be constructed aligned to the high edge of village.

FATEH PUR KHURD

Erosion is also bein gmade by the Nullah Bain near village Fateh Pur Khurd during the floods of 2017. The Abadi of Fateh Pur is presently under threat . A scheme to protect the village abadies of Fateh Pur Gujran was

approved by the Irrigation Department but work could not be carried out due to non-availability of funds. The summary has been sent to Cabinet Division on advise of P&D Department by Irrigation Department for arrangement of funds , after which work may be started after completing the tendering process. Under this scheme 2 No.s solid stone stud shall be constructed aligned to the high edge of village.



Haji Pur Gujran Bund: This Bund is situated near village Kot Nainan. Its total length is 12km. although the condition of bund is satisfactory but it requires minor earth filling on the top of the bund at some points. Irrigation department has taken up the work through departmental Machinery Division, hopefully same shall be completed soon.



iii) **Bheeko Chak Bund**: Its total length is 10km. Its overall condition is satisfactory.





vi) **Chandianwali Bund:**

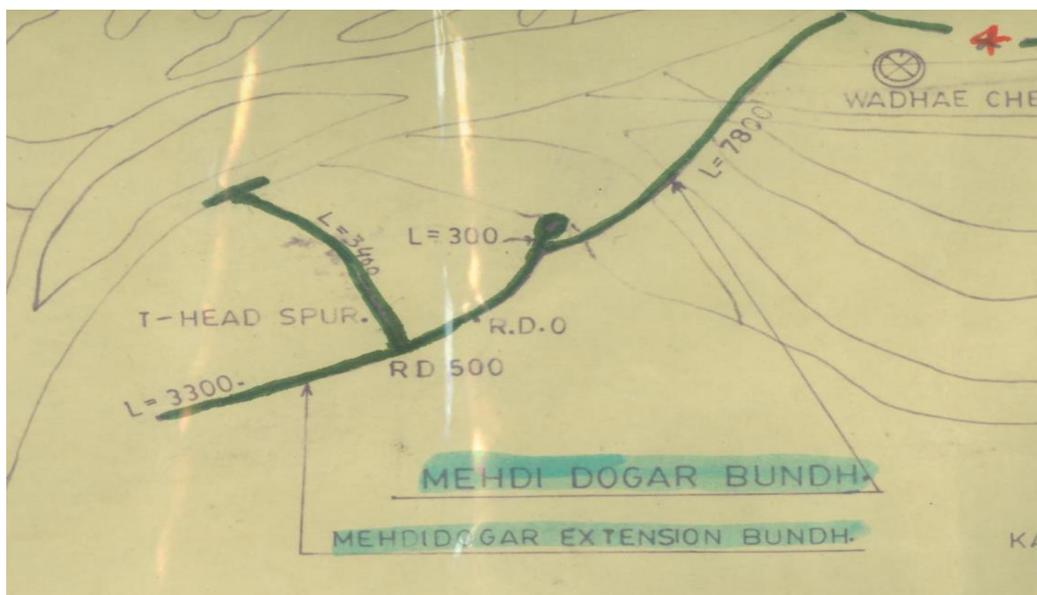
This Bund is in Tehsil Narowal and is in good condition.





vii) **Mehdi Dogar Flood Bund:**

This Bund is on Nullah Basantar in Narowal and its length is 1.56 miles. The condition of the bund is satisfactory.



viii) **Rayya Bund:**

The bund is on River Ravi in Tehsil Narowal. Its length is 13.20 miles. The condition of the bund is satisfactory.



2.2 BUNDS ON STREAMS/NULLAHS

i) **Jaistiwala Bund :**

Jaistiwala Bund was constructed by Irrigation Department, for protection of villages Jaistiwala Uncha, Jaistiwala Newan, Lala, Behlolpur from flooding in Nullah Deg. To protect the said villages, the strengthening of the bund RD 0-16 has been completed and new embankment from RD 16-34 left and right side is near to completion stage. 2 No.s spur at RD 20+000 and RD 20+200 on left side have been completed before flood season of 2017 to save village Jaistiwala..

ii) **Noor Pur Siphon:**

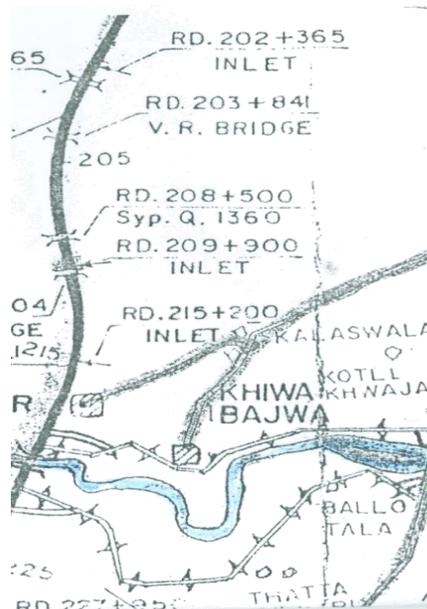


Figure 4: Noor Pur Siphon at Deg Nullah

iii) **Protection Bund Upstream Qila Ahmad Abad:**

This is a newly constructed bund upstream Qila Ahmad Abad, for protection of built up areas. This bund is being maintained by Irrigation Department, Pasrur Link, Pasrur.



Figure 5: Protection Bund Upstream Qila Ahmad Abad

2.3 DESIGN PARAMETERS OF FLOOD PROTECTION

2.3.1 FLOOD BUND SUB DIVISION, NO.1 SHAKARGARH

Sr .#	Name of bund	Length in Miles	Top width	Side slopes		Free Board over HFL (1985)	Vulnerable Reach RD.
A JALALA SECTION							
1	Jalala bund RD.0-26710	5.34	20 ft	2.5:1	2:1	5.0 (1988)	13+000 to 180000
B HAJIPUR GUJRAN SECTION							
1	HajiPur Gujran Bund RD.0.37750	7.55	25	3:1	2:1	6.0 (1988)	
2	Spur No.1 of HajiPur Gujran Flood Bund RD.0.1250	0.25	20	3:1	3:1	6.0 (1985)	

3	Spur No.2 of HajiPur Gujran Flood Bund RD.0.1250 i. Stud No1 RD.0.450 ii. Stud No.2RD.0.250	0.25	20	3:1	3:1	6.0 (1985)	
4	Spur No.3 of Hajipur Gujran Flood Bund RD.0.160 i. Stud No.3 RD.0.170 ii. Stud No.4 RD.0.80	0.032	20	3:1	3:1	6.0 (1985)	
5	Spur No.4 of HajiPur Gujran Flood Bund RD.0.230	0.046	20	3:1	3:1	6.0 (1985)	
6	Spur No.5 of HajiPur Gujran Flood Bund RD.0.1250	0.25	20	3:1	3:1	6.0 (1985)	
7	Spur No.6 of HajiPur Gujran Flood Bund RD.0.3800	0.76	20	3:1	3:1	6.0 (1985)	
8	Spur No.7 of HajiPur Gujran Flood Bund RD.0.1350	0.27	20	3:1	3:1	6.0 (1985)	
9	Spur No.8 of HajiPur Gujran Flood Bund RD.0.360	0.72	20	3:1	3:1	6.0 (1985)	
C	BHECO CHAK SECTION						
1	Bheko Chak flood bund Rd.31000.	6.20	20	3:1	3:1	5.0 (1985)	
2	Spur No.1 of Bheko Chak flood bund RD.600						
3	Spur No.2 of Bheko Chak flood bund RD.0.3550	0.71	20	3:1	3:1	5.0 (1985)	
4	Spur No.3 of Bheko Chak flood bund RD.0.4500	0.90	20	3:1	3:1	5.0 (1985)	
5	Spur No.4 of Bheko Chak flood bund RD.0.4200	0.84	20	3:1	3:1	5.0 (1985)	
6	Spur No.5 of Bheko Chak flood bund RD.0.36500	0.73	20	3:1	3:1	5.0 (1985)	

7	Diversion Bund at Muddo Gole village RD. 0-5700	1.41	20	3:1	3:1	5.0 (1985)	
D	SURVEY AND INVESTIGATION SECTION						
1	Tie Flood Bund between HajiPur Gujran and Bheko Chak Flood Bund.	3.20	25	3:1	3:1	6.0 (1988)	
2	Guide Spur at Chak Narrah	0.19	20	3:1	2:1	5.0 (1988)	
3	Guide Spur at Ferozepur	0.19	20	3:1	2:1	5.0 (1988)	

Table 4: Flood Bunds of Shakargarh Sub Division with vulnerable reaches

2.3.2 SIALKOT DRAINAGE SUB DIVISION, NAROWAL

As per data provided by Irrigation Department specifications of Flood Protection Bunds is as under [1]:

Sr .#	Name of bund	Length in Miles	Top width	Side slopes		Free Board over HFL (1985)	Vulnerable Reach RD.
A	JASSAR SECTION						
1	Jassar Highway bund RD.0-20000.	4.00	24-28	3:1	2:1	5.0 above HFL (1973)	
2	Jassar Flood Protection bund RD.0-9300	1.86	25	3:1	2:1	6.0 (1973)	RD.3000
3	Kakkake Spur RD. 0-1800.	0.36	20	3:1	2:1	6.0 (1973)	Nose of spur
4	J-Spur RD.0.5200	1.04	20	3:1	2:1	6.0 (1973)	RD 2500-4400 Nose Portion
5	Right Guide Bund RD.0-1400	0.78		3:1	2:1		
6	Approach bund RD. 0-1500	0.30		3:1	2:1		
7	Railway Spur RD. 0-800	0.16	15	3:1	2:1		
8	Flood Bund Along Basantar Nullah	5.00	15	3:1	2:1	5.0 (1985)	
B	CHANDIAN SECTION						

1	Chandian Mole Head Spur RD. 0-5850 including extension portion 0-3000. Mole Head Spur at RD.1500 Length 0-1600 Earthen stud at RD.2200 Length 0-600. Mole Head spur at RD.2400 Length 0-600.	1.77 0.32 0.12 0.12	25	3:1	2:1	5.0 (1985) 5.0 (2002)	Nose +Creek portion
2	Chandian Dowel Bund RD. 0-10500 Earthen stud at RD.1200 Length 0-600. Earthen stud at RD.2300 Length 0-600. Mole head spur at RD.3150 Length 0-600.	2.10	25	3:1	2:1	5.0 (1985) 5.0 (2002)	RD. 5000-10000 and above
	Total Length B.	4.79					
C	RAYYA SECTION						
1	Rayya Flood Bund RD. 0-40000	8.00	20	3:1	2:1	5.0' (1973)	
2	Medhi Doger Bund RD. 0.7800	1.56	20	3:1	2:1	5.0' (1973)	Nose of Spur
3	Medhi Doger Extension Bund RD. 0.3300	0.66	20	3:1	2:1	5.0' (1973)	
4	Medhi Doger Mole Head RD. 00.33	0.06	20	3:1	2:1	5.0' (1973)	
5	Medhi Doger Spur RD. 0-3400	0.68	20	3:1	2:1	5.0' (1976)	
D	ZAFARWAL SECTION						
1	Rayya Flood Bund RD.40000-94000	10.80	20	3:1	2:1	5.0' (1973)	RD.71000 – 94000
2	Zafarwal Spur RD.83000	1.20	25	3:1	2:1	5.0' (1973)	
3	Spur RD. 65000	1.72	25	3:1	2:1	5.0' (1988)	RD. 0-2000 and Nose

4	Spur RD. 75000	1.64	25	3:1	2:1	5.0' (1973)	Nose of Spur
5	Spur RD. 89000		25	3:1	2:1	5.0' (1988)	
E	DEG NULLAH						
	Chahoor Bridge to Jastiwala RD:0+000 to 16+000 R/L	37000	25	2:1	3:1	4.0	
F	TATLE DRAIN						
	Tatle Drain RD:0+000 to 57+000	57000	12/12/	1.5:1		2.0	

Table 5: Specification of Flood Bunds of Sub Division Narowal at vulnerable reaches

2.4 DISTRICT FLOOD CONTROL ROOM

District Flood Control has been established in office of the Deputy Commissioner, Narowal, with telephone No.0542-920062 & Fax No. 920062. It remains operational round the clock and one telephone operator and one official remain present round the clock through the flood season. All flood situation reports are received in this Control Room and conveyed to the concerned Sub Divisional Control Rooms, established in the office of Assistant Commissioners. The daily situation reports are exchanged on telephone and in case of emergency, police wireless system is also used

2.5 FLOOD WARNING SYSTEM

Sr. No	Flood Warning Center	Source of Information
1.	Kot Nainan Ghulam Qambar zaigham SDO, Irrigation, Shakargarh. (0345 4433248)	1. Jalala Section: Rana Zaheer ahmad Sub Engineer 03486614722,03334624384 (Muhammad Ijaz Sub. Engg, 0335-1613955) 2. Haji Pur Gujran Section Javaid Iqbal Virk 03402547477 03004747803 3. S&I Section (Sub. Engg. Mehfooz Elahi, (0300-4856591)) 4. Bheko Chak Section S&I Section (Sub. Engg. Abood Akbar, 0300-7776607)
2.	1. Zeeshan Ali Hashmi, XEN, Flood Bund Division, NWL. PTCL: 0542-920090 fax: 0542-920091 (0323-4443607) 2. Muhammad Younis , SDO Irrigation, SLK Drainage, Sub-Div, Narowal. (03219475757)	1. Jassar Section (Liaquat Ali, Sub. Engg. 0300-7761277) 2. Chandian Section (Muhammad Afzal Sub. Engg. 0300-7760587) 3. Zafarwal Section (Mehmood Ahmad Wahla, Sub. Engg. 0300-6978519) 4. Rayya Section (Khalid Rafiq, Sub. Engg. 0344-9555694)
3.	District Flood Control Room	1. Met. Dept. Lahore (042-99200139, 99201238, 99201244, 99205159, 99205160) kot Nainan observation post of irrigation dept (Rana Zaheer ahmad Sub Engineer 03486614722,03334624384) 2. Lehri Check Post of Rangers (052-9250088) 3. Divisional Officer Irrigation Office at (0542-920090) 3. Police Wireless Control (500014) 4. Sector Incharges 5. Patwaris 6. General Public

Table 6: Flood Warning Posts and contact numbers of resource persons

2.6 COMMUNICATION SYSTEM LIKELY TO BE AFFECTED

1. Non-functional Railway Line Narowal to Chak Amru
2. Narowal Shakargarh Road from Shakargarh to Mundi Khel in Tehsil Shakargarh
3. GEPCO installations
 - a. Grid Station Narowal (0542-410784)
 - b. Grid Station Zafarwal (0542-538339)
 - c. Grid Station Shakargarh (0542-450072)
4. Kingra Road (due to flooding in Deg)

2.7 DISTRICT FLOOD RELIEF COMMITTEE

A District Flood Relief Committee, comprising of key Govt. functionaries as well as prominent citizens/representatives of associations of the district, to coordinate all matters relating to flood protection & relief measures, have been constituted. The committee shall act as an advisory/monitoring body on all matters pertaining to relief, rescue and rehabilitation operations. Composition of the committee is as under:

1. Deputy Commissioner, Narowal (Convener)
2. District Police Officer, Narowal.
3. ADC(Rev.), Narowal/District Flood Relief Officer
4. ADC (F & P), Narowal.
5. Chief Executive Officer (DEA), Narowal.
6. Chief Executive Officer (DHA), Narowal.
7. Deputy Director Agriculture (Ext.), Narowal.
8. Deputy Director Social Welfare, Narowal.
9. XEN Buildings, Narowal.
10. ACs/Tehsil Flood Relief Officers, Narowal, Shakargarh & Zafarwal
11. XEN Flood Bund Division, Narowal
12. XEN Irrigation Sialkot Link, Pasrur
13. Chief Officer District Council Narowal
14. Chief Officer MC Narowal, Shakargarh & Zafarwal
15. XEN GEPCO, Narowal & Shakargarh & Zafarwal.
16. Divisional Engineer, PTCL
17. Station Master, Narowal

18. DDLG, Narowal.
19. District Food Controller, Narowal.
20. Additional Director Live Stock, Narowal.
21. Secretary DRTA, Narowal.
22. Regional Manager, ZTB, Narowal.
23. Civil Defense Officer, Narowal.
24. District Emergency Officer(Rescue 1122)

The Committee may co-opt representatives of trade associations, NGOs, and notables of the areas as may be necessary and may convene at the request of any member of the committee.

Chapter 3

Standard Operating Procedures (SOPs)

In order to ensure timely completion of activities, certain SOPs have been developed and all agencies have been directed to strictly adhere to their functions delineated in the SOP, which explicitly indicates roles and responsibilities of each functionary of the concerned department.

3.1 DEPUTY COMMISSIONER, NAROWAL

Deputy Commissioner is ultimately responsible for coordinating relief, rescue and rehabilitation operations in the District. He may proclaim a state of emergency/red alert in anticipation of an imminent calamity and final authority to requisition army in aid of civil administration, depending upon nature and gravity of the situation shall vest in District Narowal. Similarly, final decision to requisition armed forces shall be made by the Deputy Commissioner. He shall order evacuation of livestock/personnel, from potentially vulnerable areas, in consultation with all concerned, and shall be expected to take an informed decision with respect to every major problem, after due verification of threat perception. He shall ensure optimal utilization of resources by all departments, including Revenue, Civil Defence, Rescue 1122, Health, Education, Agriculture, Livestock & Irrigation; and shall coordinate with District Police on operational aspects of rescue and relief matters. The Deputy Commissioner will notify flood sectors and he shall operationalize Relief Camps. He will notify officers as Sectoral Officers Incharge/Relief Centers Incharge. In addition, the Deputy Commissioner may call upon support from any Provincial Department in order to supplement operational effectiveness of his core relief and rescue team.

3.2 ADDITIONAL DEPUTY COMMISSIONER (REV.)/ DISTRICT FLOOD RELIEF OFFICER

Additional Deputy Commissioner, Narowal shall be overall incharge of operational aspects of entire flood fighting operation. He will be responsible for coordination with all stakeholders involved in flood fighting operation, on behalf of the Deputy Commissioner and shall oversee and ensure that rescue, relief and rehabilitation operations are being

carried out properly. He shall collect data of discharge in each stream/nullah as well as River Ravi, from the Irrigation Department on daily basis and liaise with the concerned military authorities in policy formulation. He shall be personally responsible to update the Flood Plan, before onset of each season, including details of relief camps/sector offices, staff to be appointed at each facility and the telephone directory. He shall advise and update Deputy Commissioner about operational bottlenecks (if any) as well as all matters of pressing importance, including the need to call in the army in aid of civil administration. He shall maintain linkages with the city notables and shall motivate the civil society, to integrate their efforts with those of civil administration, in times of need. He shall also maintain close liaison with the print and electronic media and issue press release concerning the efforts and strategy of the Govt. regarding flood fighting operations. He shall be overall incharge of the relief effort, including inter alia, estimation of damages, arrangement of relief goods, management of inventory of goods collected, warehousing and subsequent transportation to various relief sectors accordingly, as per demands of Tehsil Relief Officers/Incharges Camp Officers. He shall also coordinate with the Director General of Relief, for arrangement of all relief items and supervise transportation to affected areas in other districts, as per directions of Provincial Govt.

3.3 PUBLIC SECTOR RELIEF OPERATIONS

For the purpose of management of relief goods, a central point shall be established by the DFRO, within the office premises of the Deputy Commissioner, Narowal, where all sorts of donations from different organizations/individuals will be collected and recorded. Three Sub-Divisional Relief Centers shall also be established at Narowal, Shakarghar and Zafarwal Tehsil Headquarters, for collection/stocking of relief goods and maintenance of inventory of goods received from private organizations and philanthropists. Tehsil Relief Officers (TFRO) shall compile details of all goods and share the details accordingly, with DFRO.

3.3.1.1 PRIVATE SECTOR RELIEF OPERATION

The DFRO shall be responsible for:

1. Collection and distribution of relief goods/donations.
2. Motivating the general public, including Trade Associations i.e. Anjum-e-Tajran & Shehriyan, Rice Sheller Association, Petrol Pump Association, Brick

Kiln (*Bhatta*) Association, Private Schools Association, Private Hospital Association, Bus Stand Operators, Contractor Association and the philanthropists, for donations in cash or kind, for relief related operations.

3. Distribution of blankets, clothes and other relief articles to the affected population. Priority amongst affected people shall be attached to widows, orphans and landless tenants.
4. Maintaining a central inventory of all items collected through private sources or PDMA/B.O.R.
5. Maintaining proper accounts pertaining to distribution of relief items.

3.3.1.2 TACCAVI LOAN/ HOUSE BUILDING LOANS ETC. AND OTHER RELIEF

The District Flood Relief Officer will immediately submit a list of approximate requirements to the Deputy Commissioner, for onward submission to the Relief Commissioner, Punjab Board of Revenue, Punjab.

The requirements shall be with reference to: -

1. Provision of Seeds/Fertilizer
2. Construction and repair of house.
3. Purchase of livestock
4. Compensation on account of loss of life, property and livestock

Only the deserving persons can be entitled to receive the above mentioned relief.

3.4 ASSISTANT COMMISSIONER/TEHSIL FLOOD RELIEF OFFICER

The Assistant Commissioner shall act as Tehsil Relief Officer in his respective jurisdiction. He shall supervise functions of Sector Officers and Relief Camps. The AC shall convene meetings of Sector Officer and Incharge Relief Camps, prior to commencement of flood season and identify their requirements for rescue, relief and rehabilitation activities. He shall be responsible inter alia, for the following:

1. Shall conduct a survey of flood protection infrastructure prior to onset of flood season, along with the Irrigation staff and identify any vulnerable point where possibility of breach exists, in case of heavy discharge of water in any stream/nullah/river.

2. Shall develop a map of course of water in the event of any breach and intimate the population beforehand.
3. Shall tabulate a list of vulnerable villages and make an estimate of likely effected population in such villages, in the event of flood.
4. Shall requisition from the District Administration any requisite materials i.e. boats, tents food articles as per need of the hour.
5. Shall collect information from all observation posts of army and irrigation department, situated within his jurisdiction and inform the Flood Control Room periodically.
6. Shall brief visiting officers on flood fighting operations.
7. Shall compile a list of volunteers for deployment in different sectors, for evacuation/relief operation.
8. Shall carry out inspection of all available boats as well as other flood fighting material and ensure that they are in good working condition and can cope with any alarming situation.
9. Shall visit different sectors to see that the pre-flood arrangements are complete.
10. Shall supervise rescue and relief operation in rural areas and make suitable arrangements for provision of food items and medical aid. He shall arrange for boats for evacuation/shifting of affected population to safer places.
11. Shall ensure that people at endangered areas are warned through all means necessary such as mosques, police and revenue officials etc, well before high levels of floods.
12. Shall transport people to the relief camps, already established as per Flood Plan and shall arrange for edible items accordingly.
13. Shall ensure that every Patwari makes beforehand arrangement of at least two (02) tractors/trolleys, POL, along with contact Nos. of owner/drivers of the vehicles. On an SOS call from the Assistant Commissioner, Patwari shall be expected to promptly start evacuation activity and shifting people in the designated relief camps.
14. Shall after the flood/rainwater is over, conduct an extensive tour of the area under his jurisdiction, in order to:
 - a. Conduct survey of affected families.

- b. Conduct survey of damage to crops and property.
 - c. Supervise measures undertaken for the rehabilitation of affected persons.
15. After the situation returns to normal the revenue staff under supervision of AC will: -
- a. Carry out 100% survey of the area under his jurisdiction
 - b. Assist, Sector Officers and other relief/aid providing agencies in rehabilitation of affected population.
 - c. Submit a consolidated report of damaged crops and cattle heads etc. to the Additional Deputy Commissioner (Rev.) who shall forward these cases to Board of Revenue for remission of Government dues and other relief measures through Deputy Commissioner Narowal.

3.5 SECTOR OFFICER

Sector Officer shall undertake the following activities under intimation to the Assistant Commissioner concerned:

1. Visit his respective area and acquaint himself with problems/situations of his sector.
2. Ensure Relief Centers under his jurisdiction are adequately manned and properly equipped, to handle any unforeseen contingency.
3. Ensure that telephone directory of the Relief Centre is updated and Relief Centre Incharge/Staff is well briefed on its roles and responsibilities.
4. Formulate Sector/Village/Mohallah Committees to effectively handle any situation on account of floods.
5. Identify suitable places for storage of flood fighting articles
6. Ensure proper inoculation/vaccination within his sector.
7. Verify that hospitals/dispensaries of Health and Livestock & Dairy Development Department are maintaining adequate stock of medicines etc.
8. Shall ensure evacuation and rescue work in a coordinated and systematic manner. The concerned Sector officer shall carry out detailed survey of villages in his sector and record facilities/agencies designated for flood control center so that he is well conversant with the local environment and

in a position to carry out relief & rescue operation befittingly. He shall be expected to have the following details available with him at all times:

- a) A map of the area indicating of means of communication.
 - b) A list of all the inhabitants with approximate population in each village.
 - c) A list of village or areas located at relatively safer ground.
 - d) Points to which the evacuated/rescued population shall be shifted.
9. Convey flood warning to inhabitants of his sector and activate Flood Committees.
 10. Remain present at his Sector round the clock, monitor attendance of all officers deputed in his Sector and report any instance of willful absence.
 11. Ensure in case of actual emergency that people are evacuated to save distance and Relief Centers remain open to accommodate any one in need.
 12. Coordinate with representatives of Food, Health, livestock, Police, Revenue, Irrigation and Agriculture departments, for relief and rescue activities.
 13. Make suitable arrangements for evacuation and placement of cattle/livestock.
 14. Remain in touch with the control room and take necessary action accordingly.
 15. Ensure that normal supply of food and other eatables is not suspended at any time and law and order situation remains under control.
 16. Ensure equitable distribution of relief articles amongst the affected persons.
 17. Associate with the Revenue staff and conduct 100 % survey of affected areas, after flood water subsides, and report to authorities concerned in a consolidated format.

3.6 INCHARGE RELIEF CAMP

1. Incharge Relief Camp shall be overall incharge of operational aspects in his Relief Camp and shall oversee working of all agencies present in his camp i.e. Revenue, Health, Civil Defence, Livestock, Rescue 1122, NGOs, Volunteers etc.

2. Incharge of Relief Camp shall coordinate with all concerned for provision of necessary food stuffs and other operational requirements.
3. Shall remain available at the camp along with his core team and shall be responsible for smooth running of affairs in Relief Camp.
4. Shall optimize accommodation space in the relief camp. In case sufficient resources are not available, he shall communicate his requirements to concerned Tehsil Flood Relief Officer through Sector Officer Incharge.
5. Shall make arrangements for water, toilets, and other basic amenities in the camp.
6. Shall ensure availability of requisite food articles and medicines in the camp, for people as well as livestock.
7. Shall provide information to Sector Officer Incharge, in case of break out of any epidemic.
8. Shall ensure law and order in the camp.

3.7 SECRETARY DRTA

1. The Secretary DRTA Narowal will be responsible for arrangements pertaining to provision of transport, required for rescue and relief purposes, during flood emergency.
2. Shall ascertain requirements for each Relief Centers and ensure that sufficient Mobile Units are available for each camp, to be able to transport people from affected areas, into the nearby Relief Camps.
3. Shall assist, monitor and specify targets for the revenue administration, for arrangements of requisite no. of tractor trolleys in times of need.

3.8 XEN IRRIGATION

The flood protection arrangements in District Narowal, fall under the administrative jurisdiction of XEN Irrigation Pasrur Link; primarily is responsible for maintenance and supervision of flood protection arrangements over Nullah Deg as well as maintenance and supervision of MR Link canal, and Executive Engineer Irrigation Narowal; responsible for maintenance and supervision of flood arrangements over River Ravi and its tributaries. Both officers are expected to perform following functions within their administrative jurisdictions:

1. Periodic Review of structural integrity of flood protection infrastructure over streams/nullahs as well as River Ravi, in order to ensure that no breach occurs in the event of heavy discharge of water. It shall be expected of the XENs to share their observations with their Supervisory Officers as well as District Administration, well before onset of Flood season, for necessary action to be taken accordingly.
2. Identification of vulnerable points on protective embankments (bunds) where breach could occur and specification of locations for positioning of requisite machinery/material near the vulnerable points.
3. Maintenance and repair of protective bunds/embankments, well before commencement of flood season.
4. Joint inspection of flood protection infrastructure with the Additional Deputy Commissioner (Rev.), Narowal and coordination with the Military Authorities.
5. Collection and sharing of information on discharge of water in Ravi as well as tributaries, with the Military authorities as well as District Administration, on daily basis.
6. Collection of information on discharge of water, from monitoring check posts on tributaries as well as control center at Jassar Ravi Gauge.
7. Improvement of existing instruments/gauges used for determination of water discharge (cusecs) in Ravi and tributaries.
8. Development of more effective Early Warning System
9. Liaison with IRSA authorities, Ministry of Water & Power as well as Flood Forecasting Centre Lahore, for collection of flood related information.
10. Briefing of authorities concerned on flood protection arrangements and development of an integrated departmental strategy, to be able to combat any situation during floods.
11. Stockpiling of essential articles to combat any flood related contingency and arrangement of sufficient funds beforehand, for such purposes.
12. Arrangement of labour along with machinery /equipment for proper maintenance of the vulnerable points, on flood protection arrangements.
13. Identification of points on roads or otherwise, where breaches/cuts are required to be made, to further facilitate discharge of water, in order to avert larger catastrophe.

14. Ascertainment of extent of damage caused to the protection bunds and other installations, after flood water subsides
15. Initiation of criminal proceedings against elements involved in willful breach in flood protection arrangements or MR Link canal, without consent of competent authority.
16. Assistance and Coordination in emergency repairs of public services.

3.9 XEN BUILDINGS

XEN Buildings shall ensure all possible precautionary measures prior to onset of flooding season. He shall make arrangements for protection and repair of buildings and necessary infrastructure and shall complement efforts of Irrigation Department in every possible way, in the event of any contingency. He shall be responsible inter alia, for:

1. Mobilization of all resources pertaining to his Department, including machinery and manpower, in aid and assistance of District Govt./Irrigation Department.

3.10 XEN HIGHWAY DEPARTMENT

XEN Highway Department, shall muster up all resources in aid of District Administration. in order to ensure that:

1. Roads are in satisfactory state and normal flow of traffic is maintained before and after flood emergency situation.
2. Comprehensive survey of damaged roads is conducted and repair works start immediately as soon as flood is over.
3. Any other operation as the District. Administration may direct, in aid and assistance of XEN, Provincial Highways and XEN Irrigation.

3.11 CEO (DHA), NAROWAL.

CEO(DHA), Narowal, will be expected to perform the following functions inter alia:

1. Provision of first aid/Medicare facilities during flood related emergency in District Narowal.
2. Extensive preventive vaccination/inoculation before, during and after the flood season.

3. Provision of necessary medicines, antibiotic, drugs, ORS and anti-snake biting and other necessary vaccines, in adequate quantities in addition to necessary first aid articles.
4. Planning and organization of Emergency centers and establishment of emergency cells as well as special medical teams, for centralized planning and coordination, during actual emergency and carrying out mass inoculations/vaccination of the affected population, in targeted areas/relief centers.
5. Provision of clean sanitary conditions in affected areas. Activation of mobile units with Medical Officer and staff, for provision of medical facilities in remotely located areas.
6. Mobilization of Disaster Management Unit and provision of essential articles e.g. blankets, stoves, tents in the Relief Centers, upon advice of District Administration.

3.12 DEPUTY DIRECTOR AGRICULTURE (EXT.), NAROWAL.

Deputy Director Agriculture (Ext.), Narowal, is expected to perform following functions inter alia:

1. He will ensure that sufficient stock of Rabi Crop seeds and fertilizers remain available in the District at all times.
2. The supply of fodder for cattle during emergency is properly managed, by the Agriculture Department.
3. He shall launch a rigorous campaign in the District through loudspeaker announcements, regarding time and points of availability of fodder and wheat bhoosa/hay. Farmers shall be educated as to how they can secure their crops from flood/rain water.
4. He shall ensure that at least three mobile teams headed by the Assistant Directors Agriculture (Ext.), Narowal, Shakarghar, Zafarwal & BaddoMalhi, remain available throughout the flood season, for monitoring of flood sectors and provision of assistance in targeted areas.
5. He shall manage the workforce in order to effectively combat any natural calamity and render assistance in all Flood Sectors/Relief Camps on need basis.

3.13 ADDL. DIRECTOR LIVESTOCK, NAROWAL.

It has been noticed that many people prefer to stay back and protect their livestock even in desperate times, at the peril of their lives. Such a dispensation not only endangers their own lives but also makes it extremely difficult for the rescue teams to be able to extract the marooned in case situation aggravates. In view thereof, Addl. Director Livestock, Narowal, shall be expected to perform the following functions:

1. A Relief Cell at the District level is established under his supervision of in his office, which is manned round the clock.
2. Addl./ Director Livestock, shall be responsible for vaccination of animals of flood affected areas. For this purpose, banners regarding flood relief activities will be displayed at conspicuous places in all flood relief centers, in order to appraise flood affectees about facilities available for vaccination and treatment of animals.
3. In case of flood emergency, emergency field units shall be activated for necessary measures pertaining to mass vaccination against spread of diseases. For this purpose, Addl. Director Livestock, shall organize sector wise mobile teams, for the purpose of providing treatment and vaccination. The teams shall maintain active presence in flood-affected areas and render all possible assistance to the affected communities.
4. Addl. Director Livestock, shall report to emergency centers about the extent of damage to Livestock, after flood emergency is over.

3.14 CEO (DEA), NAROWAL.

The CEO, (DEA), Narowal, shall be expected to perform the following functions inter alia:

1. He shall make available all school premises along the vulnerable areas, for establishment of relief camps, in order to be able to accommodate displaced people. He shall detail requisite staff and shall ensure that all school buildings remain readily available round the clock, for the purpose of accommodating the displaced people, throughout the entire flooding season.
2. He shall ensure presence of boy scouts and senior class students at relief camps, and shall be over all in-charge and focal person for this activity.

3.15 DEPUTY DIRECTOR SOCIAL WELFARE, NAROWAL.

He shall assist in collection of donations in cash/kind, for arranging relief activities within and outside the District. He shall also motivate local philanthropists/volunteers as well as NGOs, in integrating their efforts with those of the status apparatus. He shall have maintained a complete record of volunteers/philanthropists, keen to extend assistance in relief activities and shall also maintain an inventory of all articles collected and distributed in this regard.

3.16 DISTRICT FOOD CONTROLLER

District Food Controller will ensure that:

1. In case of emergency, sufficient stocks of wheat/sugar remain available in flood affected areas.
2. Shall prepare a scheme for opening of temporary ration depots in the areas likely to be affected by flood/rain.
3. Shall depute requisite staff with District Flood Relief Officer, during and after the flood emergency.
4. Shall arrange for emergency ration packets comprising of necessary available food items.
5. Shall arrange for immediate supply and distribution of food through Assistant Commissioner concerned.
6. Shall immediately setup a centralized cell for effective coordination.

3.17 SE, GEPCO, NAROWAL.

GEPCO Officers at Narowal shall prepare necessary contingency plan to ensure that:

1. No breakdown in electricity is allowed to happen in flood affected areas.
2. A Survey of electrical installations will be conducted, particularly in flood/rain affected areas and appropriate arrangements will be made for uninterrupted supply of electricity.
3. Uninterrupted electricity will be supplied to Sector Offices, Relief Camps, as well as all important installations.

3.18 DIVISIONAL ENGINEER, PTCL

He shall ensure uninterrupted communication in the District and shall provide telephone lines immediately, in any of the facility set up on urgent basis, especially by the Military Authorities requisitioned in aid and assistance of the civil administration. He shall also be responsible for immediate restoration of telephonic linkages in case of damage to any PTCL installation, during and after flooding season.

3.19 DISTRICT EMERGENCY OFFICER (1122), NAROWAL.

Incharge Rescue 1122 shall maintain close liaison with DFRO and shall promptly dispatch his rescue teams, at the call of DFRO, for rescue of marooned people. The 1122 service shall remain in a state of high alert throughout the flooding season and shall be fully equipped with all gadgets as well as first aid equipment. Rescue 1122 shall provide specialist swimmers, for extracting people from flood affected areas.

3.20 CIVIL DEFENCE OFFICER, NAROWAL.

1. The Civil Defence Officer, Narowal, shall in consultation with the DFRO, formulate a plan for rescue and relief operation in case of any emergency.
2. Arrange for training of Civil Defence contingent staff in handling any flood related situation.
3. Provide adequate number of volunteers for coordination of rescue activities and management of relief centers.
4. Shall provide for motorboat and flood fighting equipment, on emergency basis.
5. Shall setup an emergency cell for coordination amongst all departments, in case there is a high flood warning.
6. Shall make available requisite number of Civil Defence personnel/volunteers& material/ equipment with District Flood Relief Officer Narowal, for performance of duties during and after flood situation.
7. Shall monitor and train volunteers, for meaningful assistance in flood fighting operations.

8. Shall arrange training workshops for staff of different departments, for meaningful assistance in flood fighting operations.

3.21 DISTRICT POLICE OFFICER

1. Shall provide adequate police assistance in all Sectors/Relief Centers/flood affected areas, during any flood related emergency, for security purposes and maintenance of law & order.
2. Shall render operational support to Assist DFRO/TFRO/Sector Officers, in discharge of their duties and maintenance of law and order in flood hit areas/relief centers.
3. Shall deploy adequate police force, for evacuation of people/livestock from low lying areas along the River bed, in collaboration with Revenue Department as well as military authorities.
4. Put all District Police force in state of high alert and instruct them to collect and disseminate any flood related information to higher authorities as well as general public.
5. Make alternate arrangements for traffic, in case of suspension of normal routes, on account of floods.
6. Shall keep the Deputy Commissioner abreast of any flood related situation.
7. Shall issue directions for use of police wireless system, for communication purposes, during the emergency.

3.22 ARMED FORCES

Constitution of Islamic Republic of Pakistan enjoins upon the armed forces, to aid and assist the civil administration in times of need. Accordingly, army may be requisitioned in aid of civil administration, as and when necessary, depending upon the nature and gravity of the situation. Headquarters 30 Corps Gujranwala/Headquarters 8 Div. shall nominate liaison Officers, who shall coordinate with the Deputy Commissioner and the DFRO Narowal, during times of emergency. The military officers shall be expected to maintain constant liaison with the District Administration and to provide troops as well as flood fighting equipment/boats, to the District Administration, upon requisition. The District Administration shall arrange for accommodation of Army Troops and shall provide

all necessary facilities e.g. telephone lines etc., for communication/operational purposes. Depending upon the past experience, available boats may be kept at Ravi Gauge Jassar Station. Sector Officer concerned shall forward requests through proper channel and secure requisite number of boats from the Ravi Gauge station, after indicating specific requirements/resources. Chief Officer, M,C, Narowal, Shakarghar and Zafarwal, will be responsible for transportation of boats. In addition to troops from 8 Div, Rangers already deputed at Narowal, may also be called to further assist the Civil Administration, during all Rescue, Relief and Rehabilitation Operations.

Chapter 4

OPERATIONAL PREPAREDNESS LEVEL OF LINE AGENCIES

All departments may be placed in a state of "High Alert", depending upon the nature and gravity of the situation and shall be expected to respond accordingly. In case of High Alert, all available resources at disposal of District Administration shall be mobilized forthwith. Details of absolutely unavoidable resources to be committed, in order to maintain "Minimum Operational Preparedness Level", are given below:

4.1 REVENUE DEPARTMENT

Manpower & Human Resources		Material Resource Position	
Addl. Deputy Commissioner (Rev,)	1	Vehicles	4
Assistant Commissioner	3	Tractor/Trolleys (Rental Basis/Borrowing from landlords of concerned villages)	280
Tehsildar	3		
Naib Tehsildar	10		
Gardawar	14		
Patwari	168		
Ministerial staff	53		

4.2 IRRIGATION DEPARTMENT

Manpower & Human Resources		Material Resource Position	
XEN	1	Vehicles	03
SDO	2	Excavator (from private source)	1
Sub Engineers	8	Tractor with front blade (from private source)	2
		Tractor Trollies (from private source)	8
		Jute Bags	2000
		Nylon bags	15000
		Bamboos of Ballies	1500
		Kassis with handles	20
		Toot Basket	40
		Axes	10
		Hand Saw	10
		Torches	10

	Cells for Torches	20(Dozen)
	Sootli	40 (Kg)
	Shouldari	02
	Needles	10
	Generator Set	01
	Wire Rope	250(sft)
	Nylon Rope	100(Kg)
	Umbrella	20
	Rain Coat	20
	Water Cooler	02
	Water Set	02

4.3 C&W DEPARTMENT

Manpower & Human Resources		Material Resource Position
XEN Highways/Buildings	2	Vehicles 4
SDOs	4	
Sub Engineers	13	

4.4 HEALTH DEPARTMENT

Manpower & Human Resources		Material Resource Position	
CEO(DHA)	1	Vaccines/other Store Items	
DHO	1		
DDHOs	3		
Following Staff shall be deputed as preventative health team at each of Relief Camp (17):		Vehicles	52
i. Medical Officer		Ambulances	0
ii. Health Technician/Dispenser		ARV @ 5 dozes/PT	325Ampule
iii. LHV/Daia/Mid Wives		Anti-Snake vaccine @3 dozes/PT	450 Vials
iv. Naib Qasid/Ward Servant/ Chowkidar		Polio vaccine	5480 dozes
Constitution of Mobil Teams (17) each comprising of:		Measles Vaccines	1000
i. EPI Vaccinator		T.T	25000
ii. CDC Supervisor		Save delivery kits	879
iii. Sanitary Inspector		Plumpy doze	0,1 million Sachet
iv. Dais. N.Q. Chowkidar		Sprinkles	0.7 million
		Deltamethrine5% wdp	950 Kg
		Deltamethrine liquid	825 liters
		Temephose liquid	200 liters
		Personal protection equipment	30
		Spray Pumps	34
		Hand held fog machines	05
		Rapid diagnostic kits for malaria	7000
		Microscopy Centers	09

4.5 LIVESTOCK DEPARTMENT

Manpower & Human Resources		Material Resource Position	
Addl. Director Live Stock.	1	Vehicles	07
Addl. Principal Veterinary Officer	2	Veterinary Hospital	20
		Veterinary Dispensary	10
Senior Veterinary Officer	8	Veterinary Center	74
Veterinary Officer	9	AL Sub-Center	22
Veterinary Assistants	78	DIAG LAB	1
Sector-wise detail of staff posted, medicines provide is placed at Ann-E.		H.S.V.F.M.V	Sufficient quantity is available
		C.C.P.P.V	-do-
		N.D.V	-do-
		B.Q.V	-do-
		E.T.V	-do-

4.6 AGRICULTURAL DEPARTMENT

Manpower & Human Resources		Material Resource Position	
Deputy Director Agriculture (Ext.)	1	Vehicles	05
		Dozers	03
Assistant Director Agriculture (Ext.),	4		
Agri. Officers.	05.		
Field Assistant	58		
Baildars	100s		

4.7 WATER MANAGEMENT DEPARTMENT

Manpower & Human Resources		Material Resource Position	
Deputy Director Agriculture (WM)	1	Vehicles	3
Assistant Director Agri. (WM).	2		
Water Management officer	2		
Sub-Engineer	4		

4.8 EDUCATION DEPARTMENT

Manpower & Human Resources		Material Resource Position	
CEO(DEA)	1	Vehicles	4
DEOs	3	School Buildings	1600
DDEOs	6		
AEOs.	16		
Teaching staff	7558		
Non-Teaching staff	1635		

4.9 SOCIAL WELFARE DEPARTMENT

Manpower & Human Resources		Material Resource Position	
Deputy Director Social Welfare	1	Vehicles	3
Social Welfare Officers	3		
Staff	30		
NGOs (Detail at Ann-F)	40		
Volunteers	376		

4.10 FOOD DEPARTMENT

Manpower & Human Resources		Material Resource Position	
DFC	1		
AFC	1		
Food Inspectors	8		

4.11 RESCUE (1122) DEPARTMENT.

Manpower & Human Resources		Material Resource Position	
District Emergency Officer	1	Official Vehicle	1
Rescue staff	143	Life Jackets	208
Volunteers	50	Life Ring	36
		Life Buoys	8
		Life Lines	14
		Boats	16
		OBM Engine	17
		First Aid Kit	35
		Safety Harness	8
		Rain Coat	80
		Dry Suite	2
		Extension Ladder	3
		Jumping Sheet	5
		Rubber Gloves	11
		SUBA Set	3
		SCBA	9
		Search lights	17
		Torches	8
		OARS	45
		Nylon Rope	8
		Tents	16
		Plastic Mate	10
		Ambulances	11
		Fire Brigade	2
		Recue Vehicle	1
		Water Browser	1
		General Duty Vehicle	1
		Boats Carriers	5
		Water Proof Walki Takli with accessories	7
		Power supply for wireless base	5
		Folding Charpai	10
		Folding stretcher	10
		Rescue knife	5
		Mega phone	5
		OBM Stand	12
		Long rubber shoes	25
		Plastic Chairs	40
		Plastic Table	5
		Snake catcher stick	3
		Swimming kits	70
		Floating ropes (100Ft)	10
		Flood lights	7
		Tool bag kits	5

4.12 CIVIL DEFENCE DEPARTMENT.

Manpower & Human Resources		Material Resource Position	
Civil Defence Officer	1	Vehicle	01
Chief Instructor	1	Motor Cycle (CD-70)	03
Bomb Disposal Squad	3	Razakar	50
Other Staff	06	Paid Volunteers	12
		Scouts	50

4.13 MUNICIPAL COMMITTEE, NAROWAL

Manpower & Human Resources	Material Resource Position	
Chief Officer, Municipal Committee, Narowal, shall be responsible for provision of basic amenities in relief centers as well as flood affected areas. He shall respond promptly, to any SOS call made by Assistant Commissioner/Tehsil Flood Relief Officer. He shall mobilize/shift his resources accordingly.	Tractor MF-260 with Trolley	3
	Tractor STA-2293 Bed Ford with Trolley	1
	Tractor STA-260 Water Bozzer / Front end blade	1
	Tractor Bucket MF-385	3
	Fire Brigade Vehicle	1
	Hyundai Mini Truck.	1
	Sewer Sucker Machine/Sludge lorry	1
	Sewer Jetting Machine	1
	Dewatering set	15

4.14 MUNICIPAL COMMITTEE, SHAKARGARH

Manpower & Human Resources	Material Resource Position
Chief Officer, Municipal Committee, Shakargarh, shall be responsible for provision of basic amenities in relief centers as well as flood affected areas. He shall be expected to respond to any SOS call from Assistant Commissioner/Tehsil Flood Relief Officer. He shall mobilize/shift his resources accordingly.	<ul style="list-style-type: none"> • Tractor MF 385 01 No. • Tractor 260 02 Nos. • Tractor MF 240 01 No. • Trolley 02 • Sucker Jetting Machine 01 • Pick Up 01 • De-watering set 04 • Fire lorry 01 • Water Bozzer 01 • Fog Machine 05 • Spray Pumps 2 • Road Roller 01 • Generator 02 • Tent 30

4.15 MUNICIPAL COMMITTEE, ZAFARWAL.

Manpower & Human Resources	Material Resource Position
Chief Officer, Municipal Committee, Zafarwal, shall be responsible for provision of basic amenities in relief centers as well as flood affected areas. He shall be expected to respond to any SOS call from Assistant Commissioner/Tehsil Flood Relief Officer. He shall mobilize/shift his resources accordingly.	<ul style="list-style-type: none"> • Tractor MF 260 = 1 • Tractor MF 240 with Trolley = 1 • Tractor MF-385 with front end loader = 1 • De-watering set 9 Nos. with engine. • Canvas Pipe 280 Ft. • Water Boozer 1

4.16 TOTAL AVAILABLE RESOURCES/EQUIPMENT

Sr.	Detail of Resources	Total No.	Sr.	Detail of Resources	Total No.
1	Official Vehicle	87	37	Long rubber shoes	25
2	Life Jackets	288	38	Plastic Chairs	40
3	Life Ring	124	39	Snake catcher stick	3
4	Life Buoys	8	40	Swimming kits	70
5	Life Lines	14	41	Floating ropes (100Ft)	10
6	Boats	24	42	Long rubber shoes	25
7	OBM Engine	25	43	Plastic Table	5
8	First Aid Kit	35	44	Flood lights	7
9	Safety Harness	8	45	Tool bag kits	5
10	Rain Coat	100	46	Mosquito net	992
11	Dry Suite	2	47	Blanket	200
12	Extension Ladder	3	48	Jute Bags	2000
13	Jumping Sheet	5	49	Nylon bags	15000
14	Rubber Gloves	11	50	Bamboos of Ballies	1500

15	SUBA Set	3	51	Shouldari	2
16	SCBA	9	52	Needles	10
17	Search lights	17	53	Generator Set	3
18	Torches	18	54	Wire Rope	250(ft)
19	OARS	45	55	Nylon Rope	100(Kg)
20	Nylon Rope	8	56	Umbrella	20
21	Tents	1175	57	Mini Trucks	2
22	Plastic Mats	1000	58	Tractors	15
23	Ambulances	11	59	Trolleys	8
24	Fire Brigade	4	60	Sewer Sucker Machine	1
25	Rescue Vehicle	1	61	Sewer jetting Machine	2
26	Water Bowser	4	62	Toot Basket	40
27	General Duty Vehicle	1	63	Axes	10
28	Boats Carriers	5	64	Hand Saw	10
29	Water Proof Walkie Talkie with accessories	7	65	Cells for Torches	20(Dozen)
30	Power supply for wireless base	5	66	Sootli	40 (Kg)
31	Folding Charpai	10	67	Water Cooler	2
32	Folding stretcher	10	68	Water Set	2
33	Rescue knife	5	69	Dozers	3
34	Mega phone	5	70	Pick ups	1
35	OBM Stand	12	71	De-Watering sets	36
36	Kassis with handles	20			

4.17 REQUIRED EQUIPMENT: -

Sr.No.	Name of Equipment	Demand
1	Life jacket (for adult)	100
2	Life jacket (for child)	30
3	Life Ring	20
4	Life Buoys	10
5	Life line	20
6	Boats	5 (10 Ft long)
7	Inflate able Boats along with OBMs Engine	5
7	Boats Helmet	40
8	OBM Engine	05 (30 HP)
9	First Aid Kits	40

10	Rain Coat	50
11	Search Lights	20
12	Nylon Rope	20 (100 Ft)
13	Tents	500
14	Mosquito net	500
15	Carpets	20
16	Plastic mat	1000
17	Boat carrier	3
18	Air compressor for SCUBA Refilling	1
19	Hydraulic cutter	1
20	Gas cutter	02
21	Rope Throw gun	5
22	Blankets	20
23	Water Proff Walki Talki with accessories	10
24	Power supply for wireless base	5
25	Flooding chairs	50
26	Flooding Charpai	10
27	Swimming kits	50
28	Floating ropes (100 Ft)	10
29	Snake catcher stick	8
30	Tool Bag kit	5
31	Motor Cycle Honda CD-70	1
32	Rain suits (Barsati with long rubber shoes)	20
33	Portable generator (3 KVA)	2
34	Night vision goggles	30
35	Light gun	5
36	Torches	20
37	Flood lights	5
38	Navigator / GPS Tracker	10
39	Lights with dry battery and stand for boats	10

Chapter 5

Flood Sectors

In order to effectively handle any flood related situation, the flood fighting activities have been divided into three operational domains i.e. Rescue, Relief and Rehabilitation activities. During the emergency, each Sector team shall remain present in its respective flood sector and coordinate Rescue (precautionary measures, dissemination of flood alerts, evacuation call and forcible evacuation if required), Relief (provision of essential articles such as food, medicine, shelter to the displaced) and Rehabilitation (appraisal of damages, restoration of services like electricity, telephone, communication infrastructure etc., resettlement of displaced in temporary/permanent dwellings). Likewise, each team at Flood Relief Camp shall be responsible for arrangements of food, bedding, other basic amenities required at the Relief Camp.

For operational effectiveness, District Narowal has been divided into 17 sectors and necessary staff has been detailed at disposal of the Incharge of the Sector (Sector Officer), who shall arrange for the requisite manpower and other resources from concerned departments, as per detail given below:

5.1 SECTOR NO.1 (MARYAL)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Bain Nullah	Govt. Girls High School, Maryal	Muhammad Arshad Naib Tehsildar. (0301-6894864)	Chak Sfaira, Morlli, Jhumian Kalan, Darso Pur, Maryal, Chani Nagroota, Chani Brahamna, Jalal Pur, Darya Pur, Lakhnoor

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO(Male), Concerned
3.	Health	Medial Officer, BHU, Raibakalan
4.	Agriculture	Field Assistant of U.C
5.	Livestock	Veterinary Assistant
6.	MC, Shakargarh	Municipal Officer Regulation, Shakargarh
7.	Social Welfare	Social Welfare Officer,

8.	Civil Defense	Rep. of District Civil Defence Officer
9.	Irrigation	SDO or his Rep.
10.	GEPCO	Rep of XEN, GEPCO, Shakargarh.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.2 SECTOR NO.2 (IKHLASPUR)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Govt. Boys H/S Ikhlas Pur	Abdul Razzaq Agriculture Officer.(0307-6364780)	Bharwal, Naseera, Ratto Chak, Ghaseet pur, Lodhi Lawari, Jehindar wariah, Meer Pur, Jugian, Meer Pur, Sainian, Jalala, Bhaat, Dallah Gujran, Chanial

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	SST, with official staff.
3.	Health	Medial Officer, BHU, Laalina.
4.	Agriculture	Field Assistant
5.	Livestock	Veterinary Officer (H)
6.	Social Welfare	Sub Inspector concerned.
7.	MC, Shakargarh	Rep of M.C
8.	Irrigation	Rep of SDO Irrigation Shakargarh.
9.	Civil Defense	Rep of Civil Defence Officer.
10.	GEPCO	Rep of XEN, GEPCO, Shakargarh.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.3 SECTOR NO.3 (KOT NAINAN)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Govt. H/S Kot Niana	Mumtaz Haider Shah, Girdawar Halqa Kot Ninan 0300-6259416	Haji Pur Gujran, Chak Easar, Damudar Pur, Peer Kandialia, Khan Pur Mamian, Harial, Dhariwal, Khadial Jeeday, Dhadwal, Heer, Kenth Barahaman

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO (Male) with Concerned Official Staff
3.	Health	Senior Medical Officer,. RHC, Kot Naina
4.	Agriculture	Agri. Officer Kot Nainan
5.	Livestock	Veterinary Officer (H)(B)
6.	Social Welfare	Rep. of Social Welfare, NWL

7.	MC, Shakargarh	Rep. of MC, Shakargarh
8.	Irrigation	Sub- Engineer concerned
9.	Civil Defense	Rep. of Civil Defence Officer, Narowal
10.	GEPCO	Rep of XEN, GEPCO, Shakargarh.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.4 SECTOR NO.4 (MANGRI)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Baen	Govt. H/SMaingri	Javed Shehzad, Agriculture Officer, Noor Kot. (0333-8734266)	Mansoor, Fateh Pur Afghanan, Sakrangian and Pindi Khurd, Nangly Maina Hussain, Pindi Kalan, Chakra, Bhagwan pur

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO (Male) concerned Markaz.
3.	Health	Medical Officer, GRD, Mangri.
4.	Agriculture	Agriculture Officer, Noor Kot
5.	Livestock	V.O Mangri
6.	Social Welfare	Rep. of DY. Director Social Welfare , NWL
7.	MC, Shakargarh	Rep. of MC, Shakargarh
8.	Irrigation	SDO or his rep.
9.	Civil Defense	Rep. of Civil Defence Officer, Narowal
10.	GEPCO	Rep of XEN, GEPCO, Shakargarh.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.5 SECTOR NO.5 (BARA MANGA)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Govt. H/S Bara Manga	Shah Muhammad Agriculture Inspector, Kot Nainan (0307-5365078)	Chawarian, Bhabra Gujran, Fatwal Gujran, Bara Gujran, Nanowal, Jarpal, Ghorgal, Darya Minhasan, Kaloo Khara, Saad Khara, Noghaza, Nosharah, Bhako Chak, Wali pur Boora

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	Rep. of Dy. DEO (Male), Shakargarh
3.	Health	Dispenser, BHU, Bara Manga
4.	Agriculture	Field Assistant Bara Manga
5.	Livestock	V. Officer (H)
6.	Social Welfare	Rep: of Dy. Director Social Welfare

7.	MC, Shakargarh	Rep. of MC, Shakargarh
8.	Irrigation	Sub- Engineer concerned
9.	Civil Defense	Rep. of Civil Defence Officer, Narowal
10.	GEPCO.	Rep of XEN, GEPCO, Shakargarh.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.6 SECTOR NO.6 (BUSTAN AFGHANA)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Government Girls Middle School Bustan Afghana	Muhammad Ikram, Agriculture Inspector, (0307-6114633) (0307-7279485)	Kala Chechi, Natho Kot, Katarian, Kotla Khalwan, Kot Bachana, Kot Ramdas Mandali Kalan, Panwan Khokar, Dalla Nangal, Jarmian Singhan, Mamaan wal

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO(Male) concerned markaz.
3.	Health	Medical Officer, BHU, Mandiyyali
4.	Agriculture	Field Assistant
5.	Livestock	VO, (H)
6.	Social Welfare	Sub Inspector Concerned
7.	MC, Shakargarh	Rep. of MC, Shakargarh
8.	Irrigation	Sub-Engineer concerned
9.	Civil Defense	Rep. of Civil Defence Officer, Narowal
10.	GEPCO	Rep of XEN, GEPCO, Shakargarh.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.7 SECTOR NO.7 (KOTLA AFGHANAN)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Govt. Boys H/S Kotla Afghana	Muhammad Rafique, Naib Tehsildar. (0301-6335331)	Issar Wali, Chak Khaleel, Kotla Afghanan, Veeram, Dara Afghana, Kholyan, Ranay Wal, Nangali, oddah, Dowaba

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	Principal GHSS, Kotla Afghana with Official Staff
3.	Health	Medical Officer, BHU, Kanjroor
4.	Agriculture	Rep. of Dy. Director, Agri.
5.	Livestock	Veterinary Officer (H)
6.	Social Welfare	Rep. of Dy. Director Social Welfare
7.	MC, Shakargarh	Rep. of MC, Shakargarh
8.	Irrigation	Sub-Engineer Concerned
9.	Civil Defense	Rep. of Civil Defence Officer, Narowal
10.	GEPCO	Rep of XEN, GEPCO, Shakargarh.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.8 SECTOR NO.8 (BHAJNA)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Govt. H/S Bhajna	Rana Sarfraz Ahmad. Naib Tehsildar (0345-7195599)	Fatoee Chak, Jarmian, Jhanda Singh, Jarmian Mallah Singh, Mandiali Khurd

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO (Male) Concerned with Official Staff
3.	Health	Women Medical Officer, BHU, Mir Pur
4.	Agriculture	Rep. of Dy. Director (Agri.)
5.	Livestock	Vety. Officer (H)
6.	Social Welfare	Rep of Dy. Director Social Welfare
7.	MC, Shakargarh	Rep. of MC, Shakargarh
8.	Irrigation	Sub-Engineer Concerned
9.	Civil Defense	Rep. of Civil Defence Officer, Narowal
10.	GEPCO	Rep of XEN, GEPCO, Shakargarh.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.9 SECTOR NO. 9 (JASSAR)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Govt. High School, Jassar	Naveed Ahmad, Naib Tehsildar. (0302-6108216)	Parowal, kotli Bajwa, Chak Sahran, Takia, Ghasis Pure, Puranwala, Doaba, Nangli, Fasi pure, Chak Safdar, Hasan Hussain, Khakakey,

			Maidai Nanun, Sehne key, Dale pure
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ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AD (ADMN), Narowal
3.	Health	Medical Officer, BHU, Maddokahlwan
4.	Agriculture	Rep. of Dy. Director (Agri), Narowal.
5.	Livestock	Vet: Assistant, Jassar
6.	Social Welfare	Rep. of Dy. Director, SW, Narowal
7.	MC, Narowal	Rep. MC, Narowal
8.	Irrigation	Rep. of XEN, Flood Bund Division Narowal
9.	Civil Defense	Rep. of Civil Defence Officer, Narowal
10.	GEPCO	Rep. of XEN GEPCO, Narowal
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.10 SECTOR NO. 10 (NAROWAL TEHSIL HEADQUARTER)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Govt. High School, Narowal.	Ghulam Mustafa Girdawar (0300-7768583)	Narowal Manak, Ransinwal, Dodewali, Sutiabomba, Qalendarabad, Raan, Chak Baytenday, Mohar Shairf, Basekay Kalan, Lalewali

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	Dy. DEO (SE) (HQ), Narowal.
3.	Health	Medical Officer , BHU, Manak
4.	Agriculture	Rep. of Dy. Director Agri.
5.	Livestock	APVO
6.	Social Welfare	Rep of Dy. Director Social Welfare.
7.	MC, Narowal	Rep. of MC, Narowal
8.	Irrigation	Sub-Engineer Concerned
9.	Civil Defense	Rep. of Civil Defence Officer, Narowal
10.	GEPCO	Rep. of XEN, GEPCO, Narowal.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.11 SECTOR NO.11 (PEJOWALI)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Govt. High School, Aurangabad	Rana Saqib, Girdawar Halqa. (0300-9814610)	U.C Pejowali and Bathanwala: Kotli Mansabdar, Sangra, Aima Sheikhan, Sadrana, Verokey Bait, Feorzkey, Kotli Hassan Shah, Randher, Nangal Walaha, Arajji, Mubrikpura, Daud

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO (Male) concerned markaz. Narowal
3.	Health	Dispenser, BHU, Pejowali
4.	Agriculture	Agriculture Inspector.
5.	Livestock	VO(H)
6.	Social Welfare	Rep: of DY. Director Social Welfare Office.
7.	MC, Narowal	D.O(I&S), Narowal
8.	Irrigation	Sub-Engineer Concerned
9.	Civil Defense	Rep. of Civil Defense Officer, Narowal
10.	GEPCO	Rep of XEN, GEPCO, Narowal.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.12 SECTOR NO. 12 (RAYYA)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Govt. High School for boys Rayya Khas.	Basharat Ali Incharge Girdawar, Rayya (0301-6365575)	Daiwala, Rajputan, Dailwala Malahan, Khalichian, Dogar Sindain, Miadi Malahan, Kals kotli, Chaudrey China, Sahowala, Behnian, Sorey, Madidogar, Arazi Ghaziwal, Maach, Sulher Manidi, Shahpure, Bhadi

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	Head Clerk o/o DEO(SE), Narowal.
3.	Health	Medical Officer, BHU, Dairanwala
4.	Agriculture	Field Assistant.
5.	Livestock	Vet: Assistant concerned
6.	Social Welfare	Supervisor (SW), Narowal
7.	MC, Narowal	Rep of MC, Narowal
8.	Irrigation	Rep. of SDO Flood Bund Division Narowal
9.	Civil Defense	Rep. of Civil Defence Officer, Narowal

10.	GEPCO	Rep of XEN, GEPCO, Narowal.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.13 SECTOR NO. 13 (BADDOMALHI)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Ravi	Islamia Degree College, Baddomalhi	Ehsan-Ul-Haq Pannu, Agriculture Officer, Baddomalhi. (0342-6708770)	U.C Baddomalhi, Bhanian and Giddian: Bathanwala, Koot Shah Gill, Qila Raja Singh

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO(Male) concerned markaz.
3.	Health	Senior Medical Officer. RHC, Baddomalhi.
4.	Agriculture	Field Assistant.
5.	Livestock	Vety. Officer (H)
6.	Social Welfare	Rep: of Dy. Director Social Welfare
7.	MC, Narowal	Rep: of MC Narowal
8.	Irrigation	Rep: of XEN Flood Bund Div. Narowal
9.	Civil Defense	Rep: of Civil Defence Officer, Narowal
10.	GEPCO	Rep: of XEN, GEPCO Narowal
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.14 SECTOR NO. 14 (QILA AHMAD ABAD)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Deg	Govt. Boys Model High School, Qila Ahmad Abad.	Shahzad Anwar, Naib Tehsildar. (0300-6184452)	Ahmad Abad, Khemowali, Bhadi, Dingh, Narang Wali, Naru, Gujarwali, Balowali Tatka, GillBalo, Khewa

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO(Male), concerned markaz.
3.	Health	Medical Officer, RHC, Qila Ahmad Abad.
4.	Agriculture	Field Assistant.
5.	Livestock	Veterinary Officer, Qila Ahmad Abad
6.	MC, Narowal	Sub-Engineer, Qila Ahmad Abad.
7.	Social Welfare	Sub Inspector Cooperative concerned
8.	Irrigation	Sub-Engineer Zafarwal

9.	Civil Defense	Rep: of Civil Defence Officer, Narowal
10.	GEPCO	Rep. of XEN GEPCO, Narowal
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.15 SECTOR NO. 15 (TALWANDI BHINDRAN)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Deg	Govt. High School, Hallowal.	Abdul Razzaq, Naib Tehisdar. (0302-6925157)	Bali key kalan, Khara Maga Rampur, Rashid pure, Malokey, Kotli Chamrang, Tatelay, Hallowal, Raokey, Rattain

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO(Male) concerned markaz.
3.	Health	Senior Medical Technician, BHU, Talwanid Bhindran.
4.	Agriculture	Field Assistant Talwandi Bhindran
5.	Livestock	Vet: Officer Talwandi Bhindran
6.	Social Welfare	Rep: of Dy. Director Social Welfare Office.
7.	MC, Narowal	Rep. of MC, Narowal
8.	Irrigation	Sub-Engineer concerned
9.	Civil Defense	Rep: of Civil Defence Officer, Narowal
10.	GEPCO	Rep of XEN, GEPCO, Narowal.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

5.16 SECTOR NO. 16 (ZAFARWAL)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Deg	Assistant Commissioner, Office, Zafarwal	Javid Akhtar Tehsildar Zafarwal 0308-4007667	Baja Pur, Bhandial, Tairah, Wadala, Uncha Kalan, Rajoo Marl, Pindi Dyoni, Chak Khokhar, Mattar, Boobak, Mehmood Pur

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	Dy. DEO(Male), Zafarwal.
3.	Health	Medical Officer. RHC, Zafarwal.
4.	Agriculture	Field Assistant, Jandiala

5.	Social Welfare	Rep. of DO (Social Welfare), Narowal
6.	Livestock	Vety. Officer Zafarwal
7.	MC, Zafarwal	Rep of MC, Zafarwal.
8.	Irrigation	Sub-Engineer concerned
9.	Civil Defense	Rep: of Civil Defence Officer, Narowal
10.	GEPCO	Rep of XEN, GEPCO, Zafarwal.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned
13.		

5.17 SECTOR NO. 17 (DHAMTHAL)

Source of Problem	Location of Headquarter	Name of Sector Officer	Area of Sector
Deg	U.C Dhamthal	Amjad Jahangeer, Naib Tehsildar. (0300-7769661)	Dhamthal, Langerkey, Ferozpur and Sankhatra

ATTACHED STAFF

Sr. No.	Name of Department /Agencies	Staff/Officer
1.	Revenue	Kanungo, Patwari Halqa
2.	Education	AEO(Male), concerned markaz.
3.	Health	Dispenser, BHU Dhamthal.
4.	Agriculture	Field Assistant, Dhamthal
5.	Livestock	Vet: Officer Dhamthal
6.	Social Welfare	Rep. of DDy. Director Social Welfare
7.	MC, Zafarwal.	Rep. of MC, Zafarwal.
8.	Irrigation	Sub-Engineer concerned
9.	Civil Defense	Rep: of Civil Defence Officer, Narowal
10.	GEPCO	Rep of XEN, GEPCO, Zafarwal.
11.	PTCL	Rep. of DE
12.	Local Govt.	Secretary UC Concerned

Chapter 6

Flood Relief Camps

In order to effectively tackle any eventuality in case of heavy floods, sufficient number of Relief Camps have been identified in close proximity of endangered villages along River Ravi as well as Nullahs Ujh, Bain, Basantar and Deg, for the concerned authorities to be able to provide immediate asylum and relief to the displaced people. The teams detailed at Flood Relief Camp shall be responsible for arrangements of food, bedding and other basic amenities required for evacuees, at the Relief Camps. Furthermore, lists of all endangered villages in district Narowal shall be reviewed each year, before onset of each flooding season.

A list of Relief Camps corresponding to endangered villages and located at safe distance from the concerned nullahs/River Ravi, and other relevant details pertaining to each relief camp, is given below:

6.1 DETAIL OF RELIEF CAMPS, TEHSIL SHAKARGARH.

Sector No.	Name of Sector	Name of Relief Camps & Resource Person	Area of Relief Camp (ft ²)	No. of Rooms in relief camp	Overall Incharge of Relief Camp with Phone No.
1	Maryal, Tehsil Shakargarh	G.G.H.S. Maryal (Fazelat Khalid 0300-777517) & Govt. Primary School Maryal (Abid Mahmood Khan 0303-4761726)	119680	24	Muhammad Arsahd N.T (0301-6894864)
			43520	6	
2	Ikhlaspur, Tehsil Shakargarh (Jalala Bund)	Govt. Boys H/S (Ch. Aziz Bukhash 0300-7763599),	76160	9	Abdul Razzaq Agriculture Officer.(0307-6364780)
		Girls High School (Shahida Perveen 0336-6127716) &	41546	11	
		GPS, Ikhlaspur (Ghulam Dastgeer (0331-0047884)	21760	4	
3	KotNainan, Tehsil Shakargarh (Haji PurGujran Bund)	Govt. Higher Secondary School (JavaidManzoor 0300-7772561)) &	212160	21	MumtazHaider Shah, GirdawarHalqaKotNainan (0300-7765357),
			15912	11	

		Girls High School KotNainan (Asia Perveen 0300-7779512)			
4	Maingari, Tehsil Shakargarh	Govt. Higher Secondary School (Abul Rauf 0300-7770428), Maingari G.G.H.S. Maingari (AshiaGudisia 0332-8178821) & GES Maingari (Muhammad Saeed 0344-6311132)	51136 144240 32640	24 12 14	Javed Shehzad, Agriculture Officer, Noor Kot. (0333-8734266)
5	Baramanga, Tehsil Shakargarh (Bhiko Chak Bund)	Govt. Boys High School, Bara Manga (Muhammad Yousaf 0307-6335352) & Govt. Girls High School, Bara Manga (Hafeeza Akhtar 0345-4721955) Govt. P/S Baramanga (Muhammad Azam 0300-9853671)	59840 5440 10880	5 9 3	Shah Muhammad Agriculture Inspector, KotNainan (0307-5365078)
6	BustanAfghanan, Tehsil Shakargarh	Govt. Girls High School Bustan (Shafaqat Begum 0302-6364723) and Boys Primary school Bustan (Muhammad Aslam 0303-5319599)	5440 21760	14 4	Muhammad Akram, Agriculture Inspector, (0307-6114633) (0307-7279485)
7	KotlaAfghanan Plot, Tehsil Shakargarh	Govt. High School KotlaAfghanan (Khalid Mahmood Khan 0333-8737212) & Govt. Girls E/S (Fozia Afzal 0334-0512996) KotlaAfghanan	223040	15	Muhammad Rafique, Naib Tehsildar. (0301-6335331)
8	Bhajna, Tehsil Shakargarh	Govt. High School Bhajna Pervaiz Ahmad 0300-8832038)	72352	23	Rana Sarfraz Ahmad. Naib Tehsildar (0345-7195599)

6.2 DETAIL OF RELIEF CAMPS, TEHSIL NAROWAL

Sector No.	Name of Sector	Name of Relief Camp & Resource Person	Area of Relief Camp (ft ²)	No. of Rooms in relief camp	Overall Incharge of Relief Camp with Phone No.
9	Jassar, Teh. Narowal	Govt. Girls High School Jassar (Rukhsana Ijaz 0301-4899200)	38896	14	Naveed Ahmad, Naib Tehsildar. (0302-6108216)
		Govt. Boys H/S, Jassar (Muhammad Younas 0301-6895587)	116960	13	
10	Narowal	Govt. College for Boys, Narowal (Muhammad Ashraf 0542-410869)	415344	Under construction	Rehmat Ali Virk Tehsildar Narowal (0300-8033777) Ghulam Mustafa Girdawar (0300-7768583)
		Govt. High School Narowal (Muhammad Iqbal 0304-3193625)	455600	38	
11	Pejowali, Teh. Narowal	Govt. Boys High School, Aurangabad (Khalid Kahloon 0300-7768554)	35360	15-20 rooms	Rana Saqib, Girdawar Halqa. (0300-9814610)
12	Rayya, Teh. Narowal	Govt. Boys High School Rayya (Ishtiaq Ahmad 0336-7405583) & GGHS, Rayya (Nabeela Khan 0344-4777411)	116960	13	Liaqat Ali Khan, Naib Tehsildar Halqa Rayya (0300-7778193) Basharat Ali Incharge Girdawar, Rayya (0301-6365575)
		(Maqsood 0344-6523128)	403920	11	
13	Baddomalhi, Teh. Narowal	Islamia Degree College Baddomalhi (Jameel Ahmad 0306-6667102) (0542-406047)	56304	13	Ehsan-Ul-Haq Pannu, Agriculture Officer, Baddomalhi. (0342-6708770)
14	Qila Ahmad Abad Abad, Teh. Narowal	Govt. High School QAA (Abdul Manan Butt 0347-6812939) & GGHS, Qila Ahmad Abad (Naheed Akhtar 0301-6327341)	130560	24	Shahzad Anwar, Naib Tehsildar. (0300-6184452)
			97920	37	
15	Talwandi Bhindran, Teh. Narowal	Govt. Boys High School Talwandi (Muhammad Azam 0301-6154579) & GGHS, Talwandi Bindran (Shahzia Kalsoom 0333-4655366)	295120	14	Abdul Razzaq, Naib Tehsildar. (0302—6925157)
			35360	18	

6.3 DETAIL OF RELIEF CAMPS, TEHSIL ZAFARWAL

Sector No.	Name of Sector	Name of relief camp & Resource Person	Area of Relief Camp (ft ²)	No. of Rooms in relief camp	Overall Incharge of Relief Camp with Phone No.
16	Zafarwal	Govt. Elementary School No.01 Zafarwal (R/Person M.javid Iqbal 0304-8558023)	19241	25	Javid Akhtar Tehsildar Zafarwal 0308-4007667
		Govt. Elementary School No.3 (AlmaroofKhajoorwala) (R/person Irshad Ahmad) 0334-9363980	32400	08	Muzaffar Ahmad Bhatti Naib –Tehsildar 0301-6333960
17	Dhamthal	Govt. High School Dhamthal (R/Person Mian Muhammad Aslam 0333-0746262)	43560	15	Amjad Jahangeer, Naib Tehsildar.
		Govt. Elementary School, Depokay.	11968	18	Khalid Masood, Girdawar (0300-7765066)

6.3.1 Incharge Relief Camp

Incharge Relief Camp shall coordinate with all concerned, in provision of necessary food stuffs as well as any other operational requirements. He shall remain available at the camp along with his core team and shall be responsible for smooth running of affairs in the Relief Camp.

6.3.2 Focal Person Relief Camp

A Focal Person shall be designated for each Relief Camp. Headmaster of the concerned school shall be preferred as Focal Person. He shall remain available round the clock and shall keep his mobile phone open, for immediate mobilization of resources and opening of facilities in case of any emergency. He shall assist the Incharge of Relief Camp, in provision of adequate facilities e.g. water, fans, toilets, in the Camp.

6.4 TEHSIL FLOOD RELIEF CENTER

One Tehsil Flood Relief Center will be established in each of three tehsil headquarters, under direct supervision of concerned Assistant Commissioner. Any donation from civil society viz. individuals, associations, NGOs etc. shall be received therein under proper receipt. An account shall be maintained by the Assistant Commissioner for all donations in cash. Similarly, an inventory of all relief goods shall also be maintained, for safe custody and to avoid any pilferage. A daily report regarding donations shall be compiled and submitted to DFRO Narowal. Tehsil Flood Relief Centre shall function as a hub for coordination and distribution of all relief goods, within and beyond the District.

6.5 DISTRICT FLOOD RELIEF CENTER

One District Flood Relief Center shall be established in Addl. Deputy Commissioner (Revenue), Narowal, office where donations in cash or kind, from within the district as well as from outside, shall be received and stored, if required. An account of all donations in cash shall be maintained and an inventory of the relief goods in kind shall also be maintained and shared on daily basis with the DEPUTY COMMISSIONER. Relief goods shall be dispatched to various flood relief camps on need basis. In order to ensure transparency, a database of receipts/dispatches shall be maintained for information of all concerned.

FLOOD EVACUATION PLAN -2018

It is stated that Punjab Emergency Service Rescue 1122 Narowal, has been performing a vital role during flood season in flood prone areas and evacuate the trapped/affected persons to flood relief camps, where Rescue 1122 and other departments provide them all necessary lifesaving facilities. The detail of prone areas along with flood relief camps is mentioned as under:-

SR.NO.	FLOOD PRONE AREA	NULLAH / RIVER	FLOOD RELIEF CAMP
1.	Jastiwala	Nullah Deg	P.S Jastiwala.
2.	Tapai	Nullah Deg	P.S Tapai
3.	Narangwali	Nullah Deg	Caltex Petrolpump
4.	Vingal	Nullah Deg	P/S Vingal
5.	Baddomalhi-Bangala	Nullah Deg	H/S Baddomalhi
6.	Puranawala	Basantar	P.S Jassar.
7.	Kakaklass	Basantar	P.S Jassar.
8.	Kartarpur	Basantar	Kraranwala Phatak.

Chapter 7

Telephone Directory

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Mr. Ali Anan Qamar	Deputy Commissioner, Narowal.	920010 920020	920121 920122	dconwl@punjabgov.pk	0304-0920067	920300
2.	Khurram Shahzad	Addl. Deputy Commissioner (Revenue) / Focal Person, Narowal.	920063	500395	adcndl@gmail.com	0321-7698763	-do-
3.	Mr. Ali Arshad	Addl. Deputy Commissioner (General), Narowal.	920015	--		0300-4444886	-do-
4	Mian Muhammad Rafiq Ahsan	Assistant Commissioner, Narowal	920022	500311	acnarowal@gmail.com	0300-4260263	920033
5	Nasir Waliat Langriyal	Assistant Commissioner, Shakargarh	450474		acshakargarh@yahoo.com	0333-5177623	--
6	Mr. Mazhar Iqbal	Assistant Commissioner, Zafarwal.	538125		aczafarwal@hotmail.com	0300-4606308	--
7	Mr. Rehmat Ali Virak	Tehsildar, Narowal.	--			0345-6223757	
8	Ghulam Rasool Dogar	Tehsildar, Shakargarh.	--			0300-7769662	
9	Mehmood Akhtar	Tehsildar, Zafarwal.	--			0308-4007667	

POLICE DEPARTMENT.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Mr. Imran Kishwar	District Police Officer, Narowal.	412800	920200		0303-6661750	412300
2	Athar Ali	DSP, H.Q, Narowal (Addl. charge).	412860			0304-4443544	
3	Athar Ali	DSP, Sadder, Narowal.	412050			0304-4443544	
4	Muhammad Zubair (Inspector)	DSP, Legal, Narowal	414433			0300-2020158	
5	Iftikhar Ahmad	DSP, Shakargarh	450800			0303-6661755	

6	Manzoor Khaliq	DSP, Traffic Narowal	920145			0301-4996587	
7	Rana Muhammad Farooq (ASI)	District Wireless Control, Narowal	500014			0333-0231654 (0300-64123336)	

ZILA COUNCIL/ MUNICIPAL COMMITTEES, NAROWAL / SHAKARGARH / ZAFARWAL.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Riaz Gondal	Chief Officer, Zila Council, NWL	920081			0304-7431707	
2	Habib Ur Rehman	CO, MC, Narowal	412244 412231			0300-4237178	411844
3	Muhammad Naseer	Chief Officer, MC, Shakargarh	450070			0300-4417912	
4	Shahbaz Kiyani	Chief Officer, MC, Zafarwal	--			0301-6898121	

EMERGENCY SERVICE/ RECUE 1122, NAROWAL.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Muhammad Adnan	District Emergency Officer (1122), Narowal	413732 413733			0333-8646254	

DISTRICT OFFICE PDMA, NAROWAL.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	A.K. Saeed Chishti	DDMC, Narowal	500286		Ddmc_jng.piu@pdma.gop.pk	0343-7553300	

CIVIL DEFENCE, NAROWAL.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Riaz Ahmad Anjum	District Officer (Civil Defence)	920047			0345-6662725	920047
2	Afsar Khan	Bomb Disposal Commander	920047			0301-5100986	

TELEPHONE DEPARTMENT, NAROWAL.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Yaseen Abid	Bisness Manger, PTCL, Narowal	412600			0300-6108781	
2	Salamat Ali	SDO, PTCL, Narowal	412412			0333-8683866	

WAPDA

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Rafique iqbal	S.E, WAPDA, NWL	410061			0333-0773100	412666
2	Kareem Buxh Somroo	XEN, WAPDA, Narowal	410781			0333-0773130	
3.	Tariq Mehmood Malik	XEN, WAPDA, Shakargarh	451681			0333-0773210	
4.	Imtiaz Bararo	XEN, WAPDA, Zafarwal.	538814			0333-0773180	

HEALTH DEPARTMENT.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Dr. Muhammad Aslam Ch.	CEO, (Health), Narowal.	411714			0333-7775007	414259
2	Dr. Khalid Javed	DHO (Preventive), Narowal.	413391			0304-5533198	414259
3.	Dr. Latif Afzal	DHO (Medicine), Narowal.	--			0300-7777040	
3.	Dr. Muhammad Younas	M.S, District H.Q Hospital, Narowal	920119			0334-6365600	
4.	Dr. Muhammad Farooq	MS. Tehsil H.Q Shakargarh	450807			0345-9573339	
5	Dr. Ahmad Raza	MO, R.H.C Zafarwal				0342-5798441	

AGRICULTURE DEPARTMENT.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Dr. Muhammad Aslam Ch.	CEO, (Health), Narowal.	411714			0333-7775007	414259
2	Dr. Khalid Javed	DHO (Preventive), Narowal.	413391			0304-5533198	414259

3.	Dr. Latif Afzal	DHO (Medicine), Narowal.	--			0300- 7777040	
3.	Dr. Muhammad Younas	M.S, District H.Q Hospital, Narowal	920119			0334- 6365600	
4.	Dr. Muhammad Farooq	MS. Tehsil H.Q Shakargarh	450807			0345- 9573339	
5	Dr. Ahmad Raza	MO, R.H.C Zafarwal				0342- 5798441	

HIGHWAY & BUILDING DEPARTMENT.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Rana Nazir Ahmad	XEN, Building, Narowal	920173			0300- 7609219	
2	Rana Azhar Latif	XEN, Highway, Narowal	920199			0300- 4860770	

IRRIGATION DEPARTMENT.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Zishan Ali	XEN Irrigation	920090			0323- 4443607	
2	Muhammad Younas	SDO. Sialkot Drainage, Sub- Division, Narowal	920090			0321- 9475757	
3	Ghulam Qamar Zaigum	SDO, Flood Bund, Sub- Division NO.1, Shakargarh	--			0345- 4433248	

EDUCATION DEPARTMENT.

Sr. No	Name	Designation	Telephone Nos.		Email I.D	Mobile No.	Fax No.
			Office	Residence			
1	Shahzad Awan	CEO, (Education), Narowal.	411543			0300- 6194080	
2.	Muhammad Younas Warich	DEO, Elementary (Male), Narowal.	920178			0336- 2500063	
3.	Miss. Ghazal Bhatto	DEO (Female), Narowal.	920179			0331- 4488909	
4.	Muhammad Aslam	DEO, Secondary (Male), Narowal.	412440			0333- 6344196	

Chapter 8

HISTORICAL DATA

8.1 PAST EVENTS, DAMAGES AND PROPOSED RIVER TRAINING WORKS

8.1.1 Events of 1992

During the year 1992, 148543 cusecs of discharge, damaged many protective bunds. The restoration of damaged embankments/river training works was taken up just after floods 1992, under supervisory consultants.

8.1.2 Events of 1995

During exceptionally high floods of 1995, Spur No. 3 and 4 of HajiPur Gujran Flood Bund including Chandian Mole Head Spur, were again damaged. Jassar J-Head Spur and Diversion Bund at Muddo Gole were also partially damaged.

8.1.3 Events of 1996

The Spur No.8, Tail of HajiPur Gujran Flood Bund, converting into sloping spur and Spur No. 5 with Mole at tail of Bheko Chak Flood Bund, were severely damaged during abnormal floods of 1996. The work for restoration of damages of spur No.5 and Tail Mole of Bheko Chak were completed prior to flood 1997. During floods of 1995 – 96, apex of this horseshoe bend developed further and attacked Tie Flood Bund in reach RD.10+000 to 14+000.

8.1.4 Events of 1997

Spur No.5 and Tail Mole of Bheko Chak were again damaged during flood 1997. Erosive activity reached at the toe of Tie Flood Bund during 1997, but escaped breaching.

8.1.5 Events of 1998

Floods of 1998 breached the vulnerable point of Tie Flood Bund in between RD.10+000 – 14+000.

8.1.6 Events of 1999

All the previous damages duly verified by Departmental Committee, were reported to the Expert Committee. The Committee in its meeting held during January 1999 agreed on restoration of the following works.

Sr. #	Name of Bund / Spur	Year in which restored
1	Spur No.2 of HajiPur Gujran Flood Bund.	1999
2	Spur No.6 of HajiPur Gujran Flood Bund.	1999
3	Tail Mole of HajiPur Gujran Flood Bund.	1999
4	Jalala Bund RD.6-7.	2000
5	Spur No.3 of Bheko Chak flood Bund.	2000
6	Spur No.5 of Bheko Chak flood Bund.	2000
7	Tail Mole of Bheko Chak flood Bund.	2000
8	Spur No.3 of HajiPur Gujran flood bund.	2001
9	Construction of 3. # Mole Spur of Chandian flood bund.	2001
10	Jassar J-Head Spur.	2002
11	Spur RD.75000 and RD.89000 Rayya flood bund.	2002
12	Guide Spur at Chak Narrah	2004 – 2005
13	Guide Spur at Ferozepur	2004 – 2005
14	Tie Flood Bund RD.10+000 – 14+000 by providing Ring bund.	2005 – 2006

All the above works were completed at site during the years mentioned above.

8.1.7 Events of 2005

During monsoon 2005, a number of fresh supplies were received in Ravi river and Ujh Nullah, which threatened safety of bunds at different locations. One such alarming situation developed on 07-07-2005 at RD.3+500 to RD.4+500 Jalala Flood Bund where Ujh nullah started hitting the bund at right angle. The erosive action was so rapid that it eroded land strip of 30 feet width in the toe of bund within a few hours and damaged water-side slope upto 60%. As an immediate protective measure, the requisite machinery, material, labour were arranged and launching of trees and dumping of earth filled bags started the same day. The rapid advance in erosion was arrested by evening of 10th July. The strengthening process remained in progress.

Likewise, with rise of flood flows in Ravi river on 08-07-2005, severe erosive action started near Tail Mole Bheko Chak Bund in reach RD.29+500 to RD.30+000. The river current started cutting offshore and reached at the toe of the bund, threatening its stability. Bheko Chak Bund at this location plays a vital role in protecting a large number of villages situated behind it. Any breach of bund at this site would have created catastrophe in the area as numerous villages would have been washed away in addition to the damages to defence installations.

8.1.8 Events of 2006

As per recommendations of Expert Committee and after availability of funds, only works at Sr. No. 2(i) & 2(ii) were taken up and completed by 30.06.2006, with an aim to prevent river spill in the adjoining area during any floods.

8.1.9 Events of 2007-08

Following PC-Is were prepared in the light of Model Study proposals and submitted to the Higher Offices for seeking necessary approval.

1.	Protecting existing flood bunds & spurs against adverse effect of River training works, constructed by Indians on Ravi River, from Kot Nainan to Ravi Siphon (Near Kot Nainan).	365.071 (M)
2.	Protecting existing flood bunds & spurs against adverse effects of River training works constructed by Indians on Ravi River, from Kot Nainan to Ravi Siphon (Near Narowal).	446.340 (M)

8.1.10 Events of 2010

In the wake of extraordinary cloud bursts during the monsoon season, a heavy discharge occurred in River Ravi as well as tributary streams/nullahs, crisscrossing District Narowal. On a few occasions, water spilt out of river/nullahs and destroyed crops in some villages. However, due to timely intervention of District Administration in collaboration with Irrigation Department officials, and with active assistance of personnel of the armed forces, overall situation remained under control.

ANNEXURES

9.1 ANN-F: LIST OF NGO'S FOR FLOOD RELIEF OPERATION

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
1	National Rural Development Programme Narowal	Local	City Narowal	Health	Mirza muqem Baig	0542-413085
2	QUID-E-AZAM, SOCIAL WELFARE SOCIETY, RATTIAN P/O TALWANDI BHIDRAN TEHSIL & DISTT NAROWAL.	Local	Tlawandi Bhindra Tehsil & District Narowal	EDUCATION	LIAQAT ALI	0332-8698156
3	PAK SAINT JAAN WELFARE SOCIETY (PSJWS) QILA AHMAD ABAD, NAROWAL	Local	Ahmad Abad Tehsil & district Narowal	EDUCATION	AMJAD JAVAID	0347-8898810
4	Bubak Welfare Society Eid Gah Road Narowal	Local	City Narowal	Education	Ghulam Serwer	0542-412917
5	Community Development Anti TB	Local	City Shakergarh	Health	Tariq Iqbal	0300-7762723

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
	Programme Shakargarh					
6	Community Development Society Dulam	Local	Dhulam Tehsil District Narowal	Education	Javaid Neno	0542- 412986
7	Community Development Organization Phalwari	Local	Phalwari Tehsil Shakargarh	Health	Abid Ali	0300- 4149828
8	Dehati Falahi Foundation Rangra	Local	Rnagra tehsil Shakargarh	Education	Muhammad Aslam	0542- 430284
9	Help & Development Organization Shakargarh	Local	City shakargarh	Education	Haji Muhammad Sarwar	0300- 7772394
10	Islahi Council Thilay Kalaan	Local	Thiley Kalan Tehsil Narowal	Health	Muhammad Younis	0542- 433181
11	Lodge Social Welfare Society Baddo Malhi	Local	BadhoMalhi Tehsil & District	Health	Tanveer Ahmad	0542- 406863
12	Rural Education Foundation Narowal	Local	City Narowal	Education	Nisaar Ahmad	0542- 411977
13	YOUTH WELFARE SOCIETY ANTOWALI SHAKARGARH	Local	ANTOWALI Tehsil Shakargarh District Narowal	Health	ASHFAQ TAJ	0323- 3990000 0542- 430222
14	Social Welfare Society Merowala	Local	Merowala Tehsil & District Narowal	Health	Rana Muhammad Abdullah	0308- 6337840

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
15	Social Welfare Society Dhing	Local	Dhing Tehsil & District Narowal	Health	Muhammad Anwer	0542-413668
16	National Development Foundation Narowal	Local	City Narowal	Health	Dr Ijaz Ahmad	0345-6664989
17	Women Development Prograam Narowal	Local	City Narowal	Health	Nadeem Akhtar	0300-3431687
18	Narowal Health Education Welfare Society Narowal	Local	City Narowal	Health	Dr Khalid Sadique	0300-7768478
19	GOLDEN STAR SOCIAL WELFARE FOUNDATION AHMADABD	Local	Ahmad Abad	Health	ADNAN BUTT	0345-6887672
20	RS Welfare Foundation Zafarwal	Local	City Zafarwal	Education	Tanveer Hussain	0345-8432151

FLOOD SECTOR DUTY OF VETERINARY OFFICER AND V.A & A.I.TECH. DURING FLOOD SEASON

Flood Sector No.	Name of Flood Sector	CVH Concerned	Location of Headquarter	Name & Designation Sector In-charges.	Name of Field Staff and Flood Sectors.	Source of Problem	Area of Sector
1	Maryal	Shakargarh	Govt. Primary School, Maryal	Dr. Shahid Javed Yousaf, SVO, Shakargarh	Mr. Munir Ahmad V.A. Mr. Hafiz M. Zahid, VA Mr. Tariq Mehmood V.A	Bain Nullah	ChakSfaira, Morlli, JhumianKalan, DarsoPur, Maryal, ChaniNagroota, ChaniBrahamna, Jalal Pur, Darya Pur, Lakhnoor
2	Ikhlaspur	Ikhlaspur	Govt. H/S IkhlasPur	Dr. Muhammad	Mr. AmjadAli. V.A. Mr. Rafique, V.A.	Ravi	Bharwal, Naseera, RattoChak, Ghaseetpur, LodhiLawari, Jehindarwariah, Meer

				Arif,SVO, Chammal			Pur, Jugian, Meer Pur, Sainian, Jalala, Bhaat, DallahGujran, Chanical
3	KotNaina a	KotNaina	Govt. H/S KotNiana	Dr. Muhammad Arif, SVO, Chammal	Mr.Zulfiqar Ali. , V.A. Mr. Sajid Ali Naseem. , V.A.	Ravi	Haji PurGujran, ChakEasar, DamudarPur, Peer Kandialia, Khan PurMamian, Harial, Dhariwal, KhadialJeeday, Dhadwal, Heer, KenthBarahaman
4	Maingri	Maingri	Govt. H/SMaingri	Dr. Maria Arif,VO,Maingri	Mr.Ghulam Shabeer VA. Mr. Anees Anwar V.A.	Baeen	Mansoor, FatehPurAfghanan, Sakrangian and PindiKhurd, NanglyMainaHussain, PindiKalan, Chakra, Bhagwanpur
5	Bara Mangha	Maingri	Govt. H/S Bara Manga	Dr. Maria Arif ,VO,Maingri	Mr.Muhammad Tariq,VA Mr. M. Saddique V.A	Ravi	Chawarian, BhabraGujran, FatwalGujran, Bara Gujran, Nanowal, Jarpal, Ghorgal, Darya Minhasan, KalooKhara, SaadKhara, Noghaza, Nosharah, BhakoChak, Walipur Boora
6	Bustan	Kanjroor	Government Girls Middle School BustanAfgha na	Dr. Tayyab Khurshid ,VO,Dudo Chak	Mr.Gulfam Keval,VA Mr.Yasar Rasool VA.	Ravi	Kala Chechi, NathoKot, Katarian, KotlaKhalwan, KotBachana, KotRamdasMandaliKal an, PanwanKhokar, DallaNangal, JarmianSinghan, Mamaanwal
7	KotlaAfg hana	Kanjroor	Govt. H/S KotlaAfghana	Dr. Tayyab Khurshid ,VO,Dudo Chak	Mr.Qamar Abbas. V.A. Mr.Shabban Ali.V.A.	Ravi	IssarWali, ChakKhaleel, KotlaAfghanan, Veeram, DaraAfghana, Kholyan, RanayWal, Nangali, oddah, Dowaba
8	Bhajna	Maingri	Govt. H/S Bhajna	Dr.Noureen AkhtarV.O.(H) Shah Gharib	M.Muhammad Nasir VA Mr.Muhammad Idrees,VA	Ravi	FatoeeChak, Jarmian, Jhanda Singh , JarmianMallah Singh, MandialiKhurd
9	Jassar	Narowal	UC Office Jassar	Dr.Asim Iqbab VO,CVH,Cha nderkay Rajputan	M.Safdar Ali,VA M.Irfan Nawaz,VA	Ravi	Parowal, kotliBajwa, ChakSahran, Takia, Ghasis Pure, Puranwala, Doaba, Nangli, Fasi pure, ChakSafdar, HasanHussain, Khakakey, MaidaiNanun,Sehne key, Dale pure
10	Narowal	Narowal	Narowal Tehsil H.Q	Dr.Nusrat Parveen APVO Narowal	Mr. Ghulam Haider V.A Mr. Pervaiz Ahmad. VA	Ravi	Narowa,Manak, Ransinwal, Dodewali, Sutiabomba, Qalendarabad, Raan,ChakBaytenday,M oharShairf, BasekayKalan, Lalewali
11	Pejowali	Narowal	Flood Point Office Pejowali	Dr.Nazish Munawar	Mr.Abid,V.A. Mr.Samas-ud- Din,VA	Ravi	U.C Pejowali and Bathanwala: KotliMansabdar,Sangra, AimaSheikhan, Sadrana,Verokey Bait,

				VO (H) Ryyakhas			Feorzkey, Kotli Hassan Shah, Randher, NangalWalaha, Araj, Mubrikpura, Daud
12	Rayya	Rayya	P.S. RayyaKhas	Dr.Nazish Munawar VO (H) Ryyakhas	Mr. KabeerAli.V.A. Mr.Atta Ullah,VA	Ravi	Daiwala, Rajputan, DailwalaMalahan, Khalichian, DogarSindain, MiadiMalahan, Kalskotli, Chaudrey China, Sahowala, Behnian, Sorey, Madidogar, AraziGhaziwal, Maach,SulherManidi, Shahpure, Bhadi
13	BaddoM alhi	BaddoMal hi	Union Copuncil Office Baddomalhi	Dr.Aqeel Sohail V.O. (H)Narowal.	Mr.Qadeer Ahmad. VA Mr.AneesIqbal. VA M.Muhammad Ahsan,VA	Ravi	U.C Baddomalhi, Bhanian and Giddian: Bathanwala, Koot Shah Gill, Qila Raja Singh
14	Qila Ahmada bad	Qila Ahmadab ad	U.C Office Ahmed Abad	Dr.Munir Iqbal,V.O.(H ,)Walay kay	Mr. Adnan Shahid,V.A. Mr.Abdul Aleem,VA Mr.Fasal Shabir VA	Deg	Ahmad Abad, Khemowali, Bhadi, Dingh, NarangWali,Naru,Gujar wali,Balowali,Tatka,Gill Balo, Khewa
15	Talwand iBhindra n	A.I.Centre Narowal	U.C Office TalwandiBhin dran	Dr.Munir Iqbal,V.O.(H ,)Walay kay	Mr. M. Saeed V.A. Mr. Ibrar Hussain,VA Mr.Shoukat Ali,VA	Deg	Bali key kalan, KharaMaga Rampur, Rashid pure, Malokey, KotliChamrang, Tatelay,Hallowal, Raokey, Rattain
16	Zafarwal	Zafarwal	Rest House Zafarwal	Dr.Zulfiqar Ali,SVO (H),Darman	Mr. RafiqueAhmad,VA Mr. Anwar-ul-Haq V.A Sajjad Mahmood V.A.	Deg	Baja Pur, Bhandial, Tairah, Wadala, UnchaKalan, Rajoo Marl, PindiDyoni, ChakKhokhar, Mattar, Boobak, MehmoodPur
17	Dhamth al	Zafarwal	U.C Dhamthal	Dr.Fahid Shakoor,VO, Lassar Kalan	Mr.Ghulam Sarwar, VA Mr. M. Shafique, VA Mr.Naeem Farooq,VA	Deg	Dhamthal, Langerkey, Ferozpur and Sankhatra

9.2 ANN-G: LIST OF HEALTH FACILITIES AND THEIR VULNERABILITY TO HAZARDS.

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
1	Narowal	32°05'58.71"N 74°53'05.06"E	DHQ	Dr Khalid Javaid 0304-5533198	No likelihood
2	Shakargarh	32°15'50.91"N 75°09'40.57"E	THQ	Dr Tariq 0345-9573339	No likelihood
3	Badhomalhi	32°03'11.64"N 74°43'37.35"E	RHC	Dr. Bue Ali 0333-7380821	Flood
4	Ahmad Abad	32°13'44.34"N 74°45'36.12"E	RHC	Dr faiza 0347-8690605	Flood
5	Zafarwal	32°21'43.81"N 74°53'41.17"E	RHC	Dr ahmad raza 0345-7881991	Flood
6	Qiam Pur	32°06'07.47"N 74°58'46.35"E	BHU	Dr.Usman 0345-4603519	Flood
7	Talwandi Bhaindran	32°06'06.65"N 74°41'27.50"E	BHU	Muhammad Ali, SMD 0346-6625930	Flood
8	Darian Wala	32°01'38.55"N 74°47'0.64"E	BHU	Dr. Shah Jahan. 0301-6335699	Flood
9	Pejowali	32°02'42.99"N 74°48'40.20"E	BHU	Sajjad Sindhu, Dispenser 0345-6660871	Flood
10	Dhamthal	32°16'33.32"N 74°54'23.6"E	BHU	Dr.Ali Hussain 0345-5580236	Flood
11	Gangran	32°07'31.44"N 75°01'23.41"E	BHU	Shabeer Khan, Dispenser 0345-6816007	Flood

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
12	Dera Afghana	32°06'43.91"N 75°02'17.49"E	BHU	M. Boota, Dispenser 0300-6708316	Flood
13	Mir Pur	32°11'11.18"N 75°06'05.72"E	BHU	Dr. Sadia, WMO 0333-8894755	Flood
14	Mangrhi	32°12'12.77"N 75°07'40.86"N	GRD	Dr. Shafique, MO. 0345-6825343	Flood
15	Bara Mangha	32°09'57.86"N 75°09'17.22"E	BHU	Abdul Ghafoor, Dispenser 0341-5007505	Flood
16	Kot Naina	32°11'16.80"N 75°14'36.74"E	RHC	Dr. Assad 03213000726	No likelihood
17	Lalian	32°14'13.04"N 75°14'44.33"E	BHU	Dr. Rabia 0346-6655244	No Likelihood

9.3 ANN-G: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS.

S#	Name	Institute Type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	GGPS Naki Jattan	Primary	32°11'06.8"N 75°12'18.6"E	233	Khalida Parveen	0300-7771476
2	GGPS Jhanda	Primary	32°12'46.0"N 75°16'26.9"E	76	Shaheen Kousar	0307-6360539
3	GPS Narang Wali	Primary	32°12'50.2"N 74°45'35.5"E	71	Abbas Ali	0344-4721213
4	GGHSS Maryal	Higher Secondary	32°19'22.5"N 75°10'09.9"E	730	Fazeelat Khalid	0300-7771517
5	GHSS Daud	Higher Secondary	32°01'09.1"N 74°48'09.2"E	264	Abdul Majeed Chattha	0301-4370372

S#	Name	Institute Type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
6	GHS Zafarwal	High	32°20'31.8"N 74°54'19.4"E	1573	Mian Muhammad Jameel	0301-4276968
7	GPS Mandiala	Primary	32°10'57.1"N 74°59'11.8"E	48	Abdul Hameed	0301-6337023
8	GPS Noshehra	Primary	32°08'28.2"N 75°10'25.3"E	140	Muhammad Iqbal	0307-6143350
9	GHS Ahmadabad	High	32°13'43.5"N 74°45'36.4"E	1177	Mannan Butt	0347-6812939
10	GPS Kakkay Kay	Primary	32°04'21.3"N 74°58'48.5"E	56	Punjab Education Foundation .	Zahid AEO, Narowal 0300-7760726
11	GGPS Kakkay Kay	Primary	32°04'28.9"N 74°58'37.4"E	111	Nighat Fardoos	0347-6760173
12	GGPS Hubi Pur	Primary	32°16'20.5"N 74°49'17.5"E	254	Bushra Bashir	0345-6316256
13	GGHS Pejowali	High	32°02'42.9"N 74°48'41.7"E	148	Riffat Mehmood	0336-1417540
14	G. Isl. H/S Baddomalhi	High	31°59'37.4"N 74°39'45.2"E	668	Mati Ur Rehman	0333-4253476
15	GPS Dhapaie	Primary	32°13'48.2"N 74°49'39.2"E	140	Arshad Mehmood	0340-3384931
16	GES Zafarwal	Elementary	32°20'37.4"N 74°54'22.1"E	517	Irshad Ahmed	0334-9363908
17	GPS No. 1 Zafarwal	Primary	32°20'43.6"N 74°54'08.7"E	120	Javed Iqbal	0333-8721013
18	GPS No. 2 Zafarwal	Primary	32°20'39.7"N 74°54'11.9"E	18	Muhammad Nawaz	0346-6674697
19	GES Budha Pind	Elementary	32°12'30.9"N 74°57'09.0"E	310	Ghulam Mustafa	0305-6258294
20	GPS Haibat Pur	Primary	32°19'27.0"N 74°52'03.1"E	68	Muhammad Asghar	0306-6614194
21	GPS Panwan	Primary	32°06'33.5"N 75°01'55.2"E	40	Punjab Education Foundation.	Moazam AEO. 0306-0674760
22	GPS Lakra	Primary	32°06'48.1"N 75°01'44.6"E	27	Punjab Education Foundation.	Moazam AEO. 0306-0674760

S#	Name	Institute Type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
23	GPS Kapoor Dev	Primary	32°07'41.8"N 75°00'11.4"E	38	Rehman Sabir	0300-7130998
24	GPS Qila Waraich	Primary	32°06'20.7"N 75°00'43.5"E	102	Muhammad Sadiq	0345-6661141
25	GGES Haibat Pur	Elementary	32°19'27.0"N 74°52'03.1"E	263	Irshad Begum	0334-8121065
26	GGES Uncha Kalan	Elementary	32°20'49.3"N 74°52'36.8"E	234	Maqbool Ahmed	0333-8772344
27	GGPS Fasi Pur	Primary	32°04'26.7"N 74°55'27.2"E	64	Toqeer Fatima	0336-7159361
28	GPS Kot Doaba	Primary	32°04'23.1"N 74°55'53.1"E	70	Mehwash Farooqi	0305-6226155