I N D E X

FLOOD FIGHTING PLAN 2026

Chapter	PART-A	Page No
1	**Salient Feature of Division**	**2**
1.1	Location	2
1.2	General Description	2-3
1.3	Administrative Setup	4
2	**Flood Protection and River Training Works**	**5**
2.1	Design parameter of Training works	5-10
2.2	Location Map	11
3	**Brief History of Past Flood Events**	12-35
4	**Design Data, Historic Peak flood data and previous Five Years Flood Data of Headworks / Barrages and or other control points**	36
4.1	Flood Limits	36
4.2	Time Lags of Flood	36-37
4.3	Highest Floods	37
4.4	Flood Gauges	37
4.5	Peak Discharges	37-39
5	**Flood Fighting Strategy**	40-41
6	**Flood Damages Restoration Works**	42-43
7	**Flood Fighting Watching Arrangements**	44
7.1	Pre Flood Arrangements	44
7.2	Watching Establishment	45
7.3	Arrangements at sensitive sites	45-46
7.4	Watching Material	46-47
7.5	Arrangement of sounding and probing	47
7.6	Lighting Arrangement	48
7.7	Ration Arrangements	48
7.8	POL Arrangement for Vehicle	48
7.9	Transportation	48
7.10	Law and Order	48
7.11	Medical Arrangement for Labour	48
7.12	Liaison with other Departments	48-49
7.13	Role of Army	49-50
7.14	Duties of Telephone Attendant	50
7.15	Wireless Arrangements	50
8	**Detail of Encroachment**	**51**
9	**Duty Roster / Flood Fighting Program**	**52-56**
10	**Emergency Telephone Nos.**	**57-58**
11	**Standard Operating Procedure (SOP) for Breaching Section**	**59**
11.1	History of the Breaching Section	59
11.2	Location, Design, Quantity and Verity of the Explosive required for detonation	59
11.3	Arrangement of Explosive and security of Explosive Store	59
11.4	List of the Security Staff along with detail of their Training etc.	59
11.5	Detail of Mechanical Means as a Standby Arrangement in case of Detonation Failure.	59

11.6	Duty roster in case of critical situation		59
11.7	Breaching committee with their action plan		59
11.8	List of the villages likely to be inundated in case of breach		60
11.9	Announcement and detail of evacuation arrangements		60
11.10	Detail of coordination with civil / army authorities		60
11.11	Parallel communication arrangement		60
11.12	Index Plan		61
Chapter	**PART-B**		**61**
12	**Vulnerable Sites of Flood Bund / Structures**		**62**
12.1	Apprehended breaches in Flood Bunds / Structures		62
12.2	Operation of Breaching Sections		62
12.3	Breaches due to rise of flood water, deterioration of flood bunds.		62
13-A	**Emergency Contingency Plan For Vulnerable sites**		**63**
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		64
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		65
13.3	Strategy and action taken, explained in detail this may include		65
	13.3.1	Arrangements	65
	13.3.2	Establishment of Flood Fighting Camps	65
	13.3.3	Duties of Officers/ Officials at their camp sites	65
	13.3.4	Departmental Machinery available	66
	13.3.5	Machinery available from private sources	66
	13.3.6	Flood Fighting Material required	66-67
	13.3.7	Flood Fighting Material available	66-67
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		67
13-B	**Emergency Contingency Plan For Vulnerable sites**		**68**
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		69
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		70
13.3	Strategy and action taken, explained in detail this may include		70
	13.3.1	Arrangements	70
	13.3.2	Establishment of Flood Fighting Camps	70
	13.3.3	Duties of Officers/ Officials at their camp sites	70
	13.3.4	Departmental Machinery available	71
	13.3.5	Machinery available from private sources	71
	13.3.6	Flood Fighting Material required	71-72
	13.3.7	Flood Fighting Material available	71-72
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		72
13-C	**Emergency Contingency Plan For Vulnerable sites**		**73**
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		74
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		75

13.3	Strategy and action taken, explained in detail this may include		75
	13.3.1	Arrangements	75
	13.3.2	Establishment of Flood Fighting Camps	75
	13.3.3	Duties of Officers/ Officials at their camp sites	75
	13.3.4	Departmental Machinery available	76
	13.3.5	Machinery available from private sources	76
	13.3.6	Flood Fighting Material required	76-77
	13.3.7	Flood Fighting Material available	76-77
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		77
13-D	**Emergency Contingency Plan For Vulnerable sites**		**78**
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		79
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		80
13.3	Strategy and action taken, explained in detail this may include		80
	13.3.1	Arrangements	80
	13.3.2	Establishment of Flood Fighting Camps	80
	13.3.3	Duties of Officers/ Officials at their camp sites	80
	13.3.4	Departmental Machinery available	81
	13.3.5	Machinery available from private sources	81
	13.3.6	Flood Fighting Material required	81-82
	13.3.7	Flood Fighting Material available	81-82
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		82
13-E	**Emergency Contingency Plan For Vulnerable sites**		**83**
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		84
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		85
13.3	Strategy and action taken, explained in detail this may include		85
	13.3.1	Arrangements	85
	13.3.2	Establishment of Flood Fighting Camps	85
	13.3.3	Duties of Officers/ Officials at their camp sites	85
	13.3.4	Departmental Machinery available	86
	13.3.5	Machinery available from private sources	86
	13.3.6	Flood Fighting Material required	86-87
	13.3.7	Flood Fighting Material available	86-87
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		87
13-F	**Emergency Contingency Plan For Vulnerable sites**		**88**
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		89
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		90
13.3	Strategy and action taken, explained in detail this may		90

	include		
	13.3.1	Arrangements	90
	13.3.2	Establishment of Flood Fighting Camps	90
	13.3.3	Duties of Officers/ Officials at their camp sites	90
	13.3.4	Departmental Machinery available	91
	13.3.5	Machinery available from private sources	91
	13.3.6	Flood Fighting Material required	91-92
	13.3.7	Flood Fighting Material available	91-92
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		92
13-G	**Emergency Contingency Plan For Vulnerable sites**		93
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		94
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		95
13.3	Strategy and action taken, explained in detail this may include		95
	13.3.1	Arrangements	95
	13.3.2	Establishment of Flood Fighting Camps	95
	13.3.3	Duties of Officers/ Officials at their camp sites	95
	13.3.4	Departmental Machinery available	96
	13.3.5	Machinery available from private sources	86
	13.3.6	Flood Fighting Material required	96-97
	13.3.7	Flood Fighting Material available	96-97
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		97
13-H	**Emergency Contingency Plan For Vulnerable sites**		98
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		99
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		100
13.3	Strategy and action taken, explained in detail this may include		100
	13.3.1	Arrangements	100
	13.3.2	Establishment of Flood Fighting Camps	100
	13.3.3	Duties of Officers/ Officials at their camp sites	100
	13.3.4	Departmental Machinery available	101
	13.3.5	Machinery available from private sources	101
	13.3.6	Flood Fighting Material required	101-102
	13.3.7	Flood Fighting Material available	101-102
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		102
13-I	**Emergency Contingency Plan For Vulnerable sites**		103
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		104
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		105
13.3	Strategy and action taken, explained in detail this may include		105
	13.3.1	Arrangements	105

	13.3.2	Establishment of Flood Fighting Camps	105
	13.3.3	Duties of Officers/ Officials at their camp sites	105
	13.3.4	Departmental Machinery available	106
	13.3.5	Machinery available from private sources	106
	13.3.6	Flood Fighting Material required	106-107
	13.3.7	Flood Fighting Material available	106-107
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		107
13-J	**Emergency Contingency Plan For Vulnerable sites**		108
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		109
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		110
13.3	Strategy and action taken, explained in detail this may include		110
	13.3.1	Arrangements	110
	13.3.2	Establishment of Flood Fighting Camps	110
	13.3.3	Duties of Officers/ Officials at their camp sites	110-111
	13.3.4	Departmental Machinery available	111
	13.3.5	Machinery available from private sources	111
	13.3.6	Flood Fighting Material required	111-112
	13.3.7	Flood Fighting Material available	111-112
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		112
13-K	**Emergency Contingency Plan For Vulnerable sites**		113
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		114
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		115
13.3	Strategy and action taken, explained in detail this may include		115
	13.3.1	Arrangements	115
	13.3.2	Establishment of Flood Fighting Camps	115
	13.3.3	Duties of Officers/ Officials at their camp sites	115-116
	13.3.4	Departmental Machinery available	116
	13.3.5	Machinery available from private sources	116
	13.3.6	Flood Fighting Material required	116-117
	13.3.7	Flood Fighting Material available	116-117
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		117
13-L	**Emergency Contingency Plan For Vulnerable sites**		118
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		119
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		120
13.3	Strategy and action taken, explained in detail this may include		120
	13.3.1	Arrangements	120
	13.3.2	Establishment of Flood Fighting Camps	120
	13.3.3	Duties of Officers/ Officials at their camp sites	120-121

	13.3.4	Departmental Machinery available	121
	13.3.5	Machinery available from private sources	121
	13.3.6	Flood Fighting Material required	121-122
	13.3.7	Flood Fighting Material available	121-122
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		122
13-M	**Emergency Contingency Plan For Vulnerable sites**		123
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		124
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		125
13.3	Strategy and action taken, explained in detail this may include		125
	13.3.1	Arrangements	125
	13.3.2	Establishment of Flood Fighting Camps	125
	13.3.3	Duties of Officers/ Officials at their camp sites	125-126
	13.3.4	Departmental Machinery available	126
	13.3.5	Machinery available from private sources	126
	13.3.6	Flood Fighting Material required	126-127
	13.3.7	Flood Fighting Material available	126-127
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		127
13-N	**Emergency Contingency Plan For Vulnerable sites**		128
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		129
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		130
13.3	Strategy and action taken, explained in detail this may include		130
	13.3.1	Arrangements	130
	13.3.2	Establishment of Flood Fighting Camps	130
	13.3.3	Duties of Officers/ Officials at their camp sites	130-131
	13.3.4	Departmental Machinery available	131
	13.3.5	Machinery available from private sources	131
	13.3.6	Flood Fighting Material required	131-132
	13.3.7	Flood Fighting Material available	131-132
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		132
13-O	**Emergency Contingency Plan For Vulnerable sites**		133
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		134
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		135
13.3	Strategy and action taken, explained in detail this may include		135
	13.3.1	Arrangements	135
	13.3.2	Establishment of Flood Fighting Camps	135
	13.3.3	Duties of Officers/ Officials at their camp sites	135-136
	13.3.4	Departmental Machinery available	136
	13.3.5	Machinery available from private sources	136

	13.3.6	Flood Fighting Material required	136-137
	13.3.7	Flood Fighting Material available	136-137
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		137
13-P	**Emergency Contingency Plan For Vulnerable sites**		138
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		139
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		140
13.3	Strategy and action taken, explained in detail this may include		140
	13.3.1	Arrangements	140
	13.3.2	Establishment of Flood Fighting Camps	140
	13.3.3	Duties of Officers/ Officials at their camp sites	140-141
	13.3.4	Departmental Machinery available	141
	13.3.5	Machinery available from private sources	141
	13.3.6	Flood Fighting Material required	141-142
	13.3.7	Flood Fighting Material available	141-142
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		142
13-Q	**Emergency Contingency Plan For Vulnerable sites**		143
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		144
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		145
13.3	Strategy and action taken, explained in detail this may include		145
	13.3.1	Arrangements	145
	13.3.2	Establishment of Flood Fighting Camps	145
	13.3.3	Duties of Officers/ Officials at their camp sites	145-146
	13.3.4	Departmental Machinery available	146
	13.3.5	Machinery available from private sources	146
	13.3.6	Flood Fighting Material required	146-147
	13.3.7	Flood Fighting Material available	146-147
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		147
13-R	**Emergency Contingency Plan For Vulnerable sites**		148
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		149
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		150
13.3	Strategy and action taken, explained in detail this may include		150
	13.3.1	Arrangements	150
	13.3.2	Establishment of Flood Fighting Camps	150
	13.3.3	Duties of Officers/ Officials at their camp sites	150-151
	13.3.4	Departmental Machinery available	151
	13.3.5	Machinery available from private sources	151
	13.3.6	Flood Fighting Material required	151-152
	13.3.7	Flood Fighting Material available	151-152

13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		152
13-S	**Emergency Contingency Plan For Vulnerable sites**		153
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		154
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		155
13.3	Strategy and action taken, explained in detail this may include		155
	13.3.1	Arrangements	155
	13.3.2	Establishment of Flood Fighting Camps	155
	13.3.3	Duties of Officers/ Officials at their camp sites	155-156
	13.3.4	Departmental Machinery available	156
	13.3.5	Machinery available from private sources	156
	13.3.6	Flood Fighting Material required	156-157
	13.3.7	Flood Fighting Material available	156-157
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		157
13-T	**Emergency Contingency Plan For Vulnerable sites**		158
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		159
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		160
13.3	Strategy and action taken, explained in detail this may include		160
	13.3.1	Arrangements	160
	13.3.2	Establishment of Flood Fighting Camps	160
	13.3.3	Duties of Officers/ Officials at their camp sites	160-161
	13.3.4	Departmental Machinery available	161
	13.3.5	Machinery available from private sources	161
	13.3.6	Flood Fighting Material required	161-162
	13.3.7	Flood Fighting Material available	161-162
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		162
13-U	**Emergency Contingency Plan For Vulnerable sites**		163
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		164
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		165
13.3	Strategy and action taken, explained in detail this may include		165
	13.3.1	Arrangements	165
	13.3.2	Establishment of Flood Fighting Camps	165
	13.3.3	Duties of Officers/ Officials at their camp sites	165-166
	13.3.4	Departmental Machinery available	166
	13.3.5	Machinery available from private sources	166
	13.3.6	Flood Fighting Material required	166-167
	13.3.7	Flood Fighting Material available	166-167
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building,		167

	Canal and Drainage Network.		
13-V	**Emergency Contingency Plan For Vulnerable sites**		168
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		169
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		170
13.3	Strategy and action taken, explained in detail this may include		170
	13.3.1	Arrangements	170
	13.3.2	Establishment of Flood Fighting Camps	170
	13.3.3	Duties of Officers/ Officials at their camp sites	170-171
	13.3.4	Departmental Machinery available	171
	13.3.5	Machinery available from private sources	171
	13.3.6	Flood Fighting Material required	171-172
	13.3.7	Flood Fighting Material available	171-172
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		172
13-W	**Emergency Contingency Plan For Vulnerable sites**		173
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		174
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		175
13.3	Strategy and action taken, explained in detail this may include		175
	13.3.1	Arrangements	175
	13.3.2	Establishment of Flood Fighting Camps	175
	13.3.3	Duties of Officers/ Officials at their camp sites	175-176
	13.3.4	Departmental Machinery available	176
	13.3.5	Machinery available from private sources	176
	13.3.6	Flood Fighting Material required	176-177
	13.3.7	Flood Fighting Material available	176-177
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		177
13-X	**Emergency Contingency Plan For Vulnerable sites**		178
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		179
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		180
13.3	Strategy and action taken, explained in detail this may include		180
	13.3.1	Arrangements	180
	13.3.2	Establishment of Flood Fighting Camps	180
	13.3.3	Duties of Officers/ Officials at their camp sites	180-181
	13.3.4	Departmental Machinery available	181
	13.3.5	Machinery available from private sources	181
	13.3.6	Flood Fighting Material required	181-182
	13.3.7	Flood Fighting Material available	181-182
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		182

13-Y	**Emergency Contingency Plan For Vulnerable sites**		183
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		184
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		185
13.3	Strategy and action taken, explained in detail this may include		185
	13.3.1	Arrangements	185
	13.3.2	Establishment of Flood Fighting Camps	185
	13.3.3	Duties of Officers/ Officials at their camp sites	185-186
	13.3.4	Departmental Machinery available	186
	13.3.5	Machinery available from private sources	186
	13.3.6	Flood Fighting Material required	186-187
	13.3.7	Flood Fighting Material available	186-187
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		187
13-Z	**Emergency Contingency Plan For Vulnerable sites**		188
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		189
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		190
13.3	Strategy and action taken, explained in detail this may include		190
	13.3.1	Arrangements	190
	13.3.2	Establishment of Flood Fighting Camps	190
	13.3.3	Duties of Officers/ Officials at their camp sites	190-191
	13.3.4	Departmental Machinery available	191
	13.3.5	Machinery available from private sources	191
	13.3.6	Flood Fighting Material required	191-192
	13.3.7	Flood Fighting Material available	191-192
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		192
13-AA	**Emergency Contingency Plan For Vulnerable sites**		193
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		194
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		195
13.3	Strategy and action taken, explained in detail this may include		195
	13.3.1	Arrangements	195
	13.3.2	Establishment of Flood Fighting Camps	195
	13.3.3	Duties of Officers/ Officials at their camp sites	195-196
	13.3.4	Departmental Machinery available	196
	13.3.5	Machinery available from private sources	196
	13.3.6	Flood Fighting Material required	196-197
	13.3.7	Flood Fighting Material available	196-197

13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		197
13-BB	**Emergency Contingency Plan For Vulnerable sites**		198
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		199
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		200
13.3	Strategy and action taken, explained in detail this may include		200
	13.3.1	Arrangements	200
	13.3.2	Establishment of Flood Fighting Camps	200
	13.3.3	Duties of Officers/ Officials at their camp sites	200
	13.3.4	Departmental Machinery available	201
	13.3.5	Machinery available from private sources	201
	13.3.6	Flood Fighting Material required	201-202
	13.3.7	Flood Fighting Material available	201-202
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		202
13-CC	**Emergency Contingency Plan For Vulnerable sites**		203
13.1	Plan Showing Route of Flood Water coming out the breach supported with levels		204
13.2	Detail of Villages, Abadies likely to be affected and this should also be shown on plan.		205
13.3	Strategy and action taken, explained in detail this may include		205
	13.3.1	Arrangements	205
	13.3.2	Establishment of Flood Fighting Camps	205
	13.3.3	Duties of Officers/ Officials at their camp sites	205-206
	13.3.4	Departmental Machinery available	206
	13.3.5	Machinery available from private sources	206
	13.3.6	Flood Fighting Material required	206-207
	13.3.7	Flood Fighting Material available	206-207
13.4	Detail of other infrastructure like electricity, Sui Gas, Telephone Installation, Road network, Other Building, Canal and Drainage Network.		207
14	**ADDITIONAL INFORMATION ACTION PLAN**		**2058**
14.1	Re-shuffling / recouping plan of reserve stock of stone departmentally		208
14.2	Detail of inlet and outlet crossing along with closing methodology.		208
14.3	Deployment of machinery (Medium to high flood)		208-209
14.4	Deployment of machinery (High to very high)		209-210
14.5	Deployment of machinery (Very High to exceptionally high flood)		210-211
14.6	Police deployment plan.		211-212
14.7	Detail of synthetic bags with capacity of 500 Kg and 1000 Kg.		212
14.8	Detail of Polythene sheets of black colour to protect upstream slope against wave action and to control seepage through embankment.		212

15	**Back up Divisions (In case of breach)**	213

PART - A

CHAPTER – 1

SALIENT FEATURE OF FLOOD BUND DIVISION, NAROWAL

1.1 LOCATION

The Flood Bund Division Narowal, Irrigation Department has headquarter at Narowal city Tehsil & District Narowal.

1.2 GENERAL DESCRIPTION

The Flood Bund Division Narowal, with headquarter at Narowal city, started functioning on 10/01/1998 along with its two (2 No's) Sub Divisions i.e Flood Bund Sub Division No -1 Shakargarh with head quarter at Kot Nainan & Sialkot Drainage Sub Division Narowal with headquarter at Narowal to control & monitor the fluvial flood situation in District Narowal

The responsibility of Division is to look after all flood protection works along right side of river Ravi from Kot Nainan (16 Km from Shakargarh in south east direction, where river enters in Pakistan territory) to Marala Ravi Link Canal (MRL Canal) and other flood protection works constructed along tributaries of the River Ravi in Narowal District. The River Ravi originates from the basin of Bangla Hills having 3460 Sq Miles catchment area & then flows through the valley into the state of Chamba. After passing through the hilly region, it enters into Pathan Kot of District Gurdaspur at Chundh & after passing through Gurdaspur District, it enters into Pakistan territory near Kot Nainan in tehsil Shakargrah of District Narowal. It departs Narowal District & enters into District Sheikhupura near village Burj, & then again passes from Amritsar District of India. After running 10 miles in India, the river again re-enters into Pakistan territory near the village Aulia Pur District Sheikhupura.The river flow reaches Shahdara after passing a distance of 114 Km from D/S Jassar Bridge.

The River has the following main tributaries, which contribute to its flood in District Narowal.

Sr. No.	Name of Tributary	Length in Miles	Average Slope 1000 ft	Catchment Area in Sq Miles	Likely Maximum Discharge in Cs)	Out Falling at
1	Ujh Nullah	80	0.60	675	200,000	River Ravi in Indian
2	Bein Nullah	48	0.70	346	128,000	U/S Jassar Bridge

3	Basanter Nullah	45	0.65	224	83,000	D/S Jassar Bridge

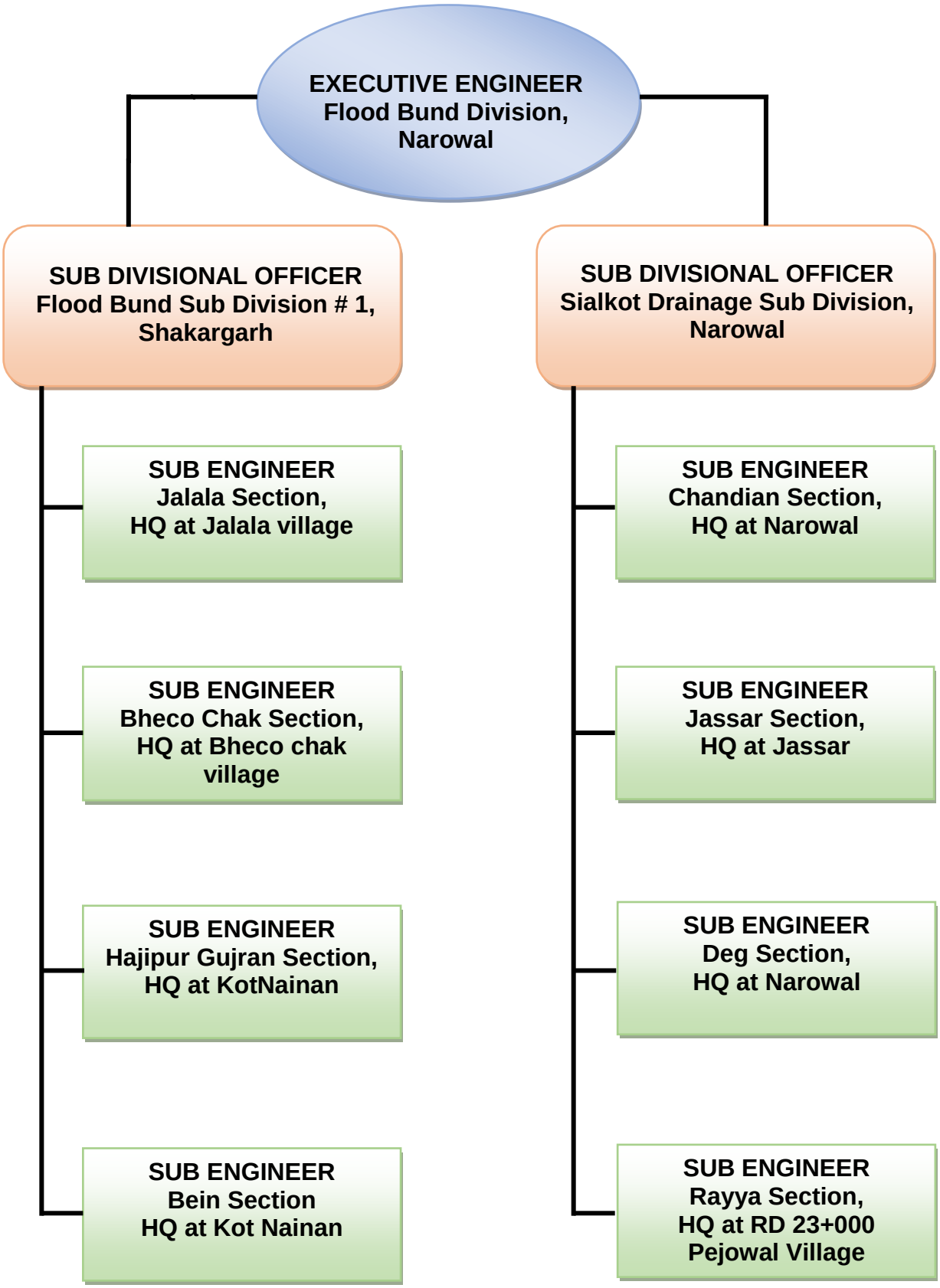
In addition to above tributaries of River Ravi, the high discharge in Deg Nullah also effects the part area of district NarowalD/S Chahoor and Qila Ahmad Abad.

Most of the catchment area of River Ravi & its tributaries fall in the Indian Territory & consequently control points are also with Indian Government. There are many flood protection works on both sides of River Ravi which were constructed by India & Pakistan during the past. Ravi River runs in the form of loops along the international boundary within a series of embankments / river training works. Due to provision of series of river training works by India & Pakistan, the river section has been reduced which has changed its flow behavior from normal to aggressive & consequently causing deep scour & serious damages to the flood protection works.

Indian Government always aim to conceal high rain fall which concentrates flood situation in upper catchment area of the river, thereby inflicting heavy damages on Pakistan side. There is no timely receipt of flood warning information from the Indian side & it is usually received when the flood peaks would have already passed from the entry point of the River Ravi near Kot Nainan.

This flood fighting plan has been discussed / coordinated with civil / army authorities. Any further suggestions / comments if received from any department will be welcomed and incorporated accordingly.

1.3 ADMINISTRATIVE SETUP



CHAPTER – 2

FLOOD PROTECTION AND RIVER TRAINING WORKS

2.1 DESIGN PARAMETERS OF TRAINING WORKS / FLOOD EMBANKMENTS.

Unit in Feet

Sr No.	Name of Bund / Embankment	Reach (ft)	Length in Miles	Top Width (ft)	Slope R/S & C/S	Free Board Over HFL
Flood Bund Sub Division No.1 Shakargarh						
1.1	**Jalala Section**					
1	Jalala Flood Protection Bund	0-26700	5.34	20	1:2.5 &1:2	5' (1988)
I	Inverted Hockey Spur No.1 at RD.2+000	0-1120	0.21	20	1:2 & 1:2	
Ii	Slopy Spur No – 2 at RD13+200	0-326	0.062	20	1:2 & 1:2	
iii	Mole Head Spur No – 3 at RD 14+300	0-325	0.064	20	1:2 & 1:2	
Iv	Mole Head Spur No – 4 at RD 16+000	0-200	0.038	20	1:2 & 1:2	
V	Stud at RD 16+400	0-50	0.0095	20	1:2 & 1:2	
Vi	Mole Head Spur No – 5 at RD 16+700	0-150	0.028	20	1:2 & 1:2	
Vii	Mole Head Spur No – 6 at RD 17+000	0-150	0.028	20	1:2 & 1:2	
viii	Mole Head Spur No – 7 at RD 17+300	0-150	0.028	20	1:2 & 1:2	
Ix	Mole Head Spur No – 8 at RD 17+600	0-150	0.028	20	1:2 & 1:2	
X	Slopy Spur No 9 at RD 18+000	0-230	0.043	20	1:2 & 1:2	
1.2	**Hajipur Gujran Section**					
1	Hajipur Gujran Bund	0-37750	7.550	25	1:3 & 1:2	6' (1988)
I	Spur No - 1 of Hajipur Gujran Bund	0-1250	0.250	20	1:2 & 1:2	
Ii	Spur No - 2 of Hajipur Gujran Bund i. Stud No - I ii. Stud No - II	0-1250 0-626 0-371	0.25	20	1:2 & 1:2	
iii	Spur No - 3 of Hajipur Gujran Bund i. Stud No - III ii. Stud No - IV	0-310 0-300 0-140	0.032	20	1:2 & 1:2	
Iv	Spur No - 4 of Hajipur Gujran Bund i Stud No.v ii Stud No.vi iii Stud No.vii	0-322 0-282 0-367 0-432	0.064	20	1:2 & 1:2	
V	Spur No - 5 of Hajipur Gujran Bund	0-1250	0.250	20	1:2 & 1:2	

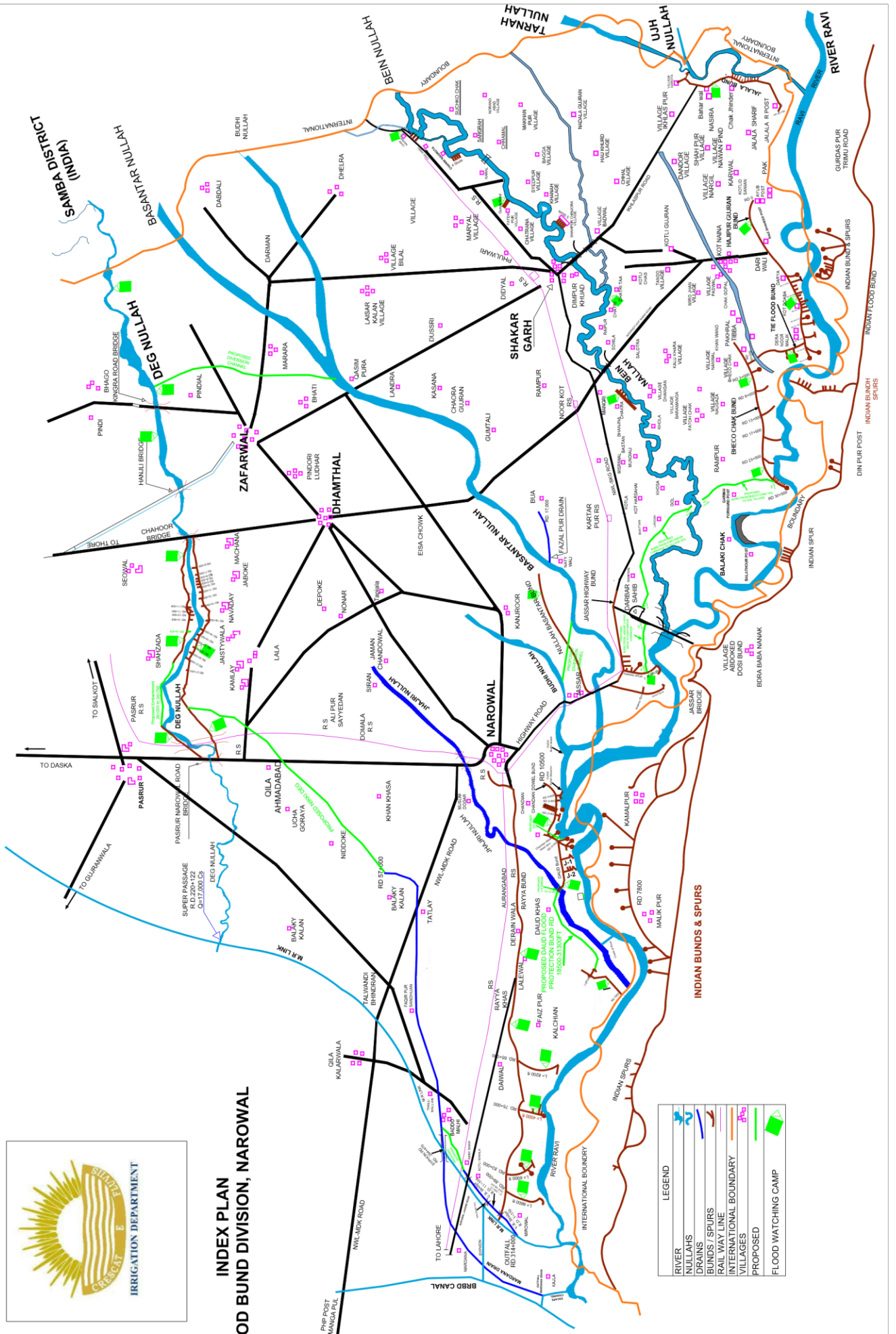
Vi	Spur No - 6 of Hajipur Gujran Bund	0-3800	0.760	20	1:2 & 1:2	
Vii	Spur No - 7 of Hajipur Gujran Bund	0-1350	0.270	20	1:2 & 1:2	
viii	Spur No - 8 of Hajipur Gujran Bund	0-360	0.720	20	1:2 & 1:2	
1.3 Bheco Chak Section						
1	Bheco Chak Flood Bund	0-30500	6.100	25	1:3 & 1:2	6’ (1988)
I	Supr No - 2 of Bheco Chak Flood Bund	0-3350	0.71	25	1:3 & 1:2	6’ (1988)
Ii	Supr No - 3 of Bheco Chak Flood Bund	0-4500	0.90	25	1:3 & 1:2	6’ (1988)
Iii	Supr No - 4 of Bheco Chak Flood Bund	0-4200	0.84	25	1:3 & 1:2	6’ (1988)
Iv	Supr No - 5 of Bheco Chak Flood Bund	0-3650	0.73	25	1:3 & 1:2	6’ (1988)
V	Stud no.1	0-379	0.07	20	1:2 & 1:2	6’ (1988)
Vi	Stud no.2	0-340	0.06	20	1:2 & 1:2	6’ (1988)
vii	Stud no.3	0-478	0.09	20	1:2 & 1:2	6’ (1988)
viii	Stud no.4	0-427	0.09	20	1:2 & 1:2	6’ (1988)
Ix	Stud no.5	0-319	0.06	20	1:2 & 1:2	6’ (1988)
X	Stud no.6	0-380	0.07	20	1:2 & 1:2	6’ (1988)
Xi	Stud no.7	0-173	0.03	20	1:2 & 1:2	6’ (1988)
xii	Stud no.8	0-145	0.03	20	1:2 & 1:2	6’ (1988)
xiii	Stud no.9	0-130	0.02	20	1:2 & 1:2	6’ (1988)
2	Pitching near village Maddo Gole	0-1000	.20	20	1:2 & 1:2	5’ (1988)
1.4 Bein Section						
1	Tie Flood Bund between Hajipur Gujran & Bheco Chak Bund	0-16500	3.300	20	1:3 & 1:2	6’ (1988)
I	Spur No.1 of Tie Flood Bund at RD.2+500	0-500	0.095	20	1:3 & 1:3	6’ (1988)
Ii	Spur No.2 of Tie Flood Bund at RD.3+700	0-500	0.095	20	1:3 & 1:3	6’ (1988)
2	Guide Spur at Chak Narrah	0-900	0.18	20	1:3 & 1:2	5’ (1988)
3	Guide Spur at Ferozpur	0-600	0.12	20	1:2 & 1:2	5’ (1988)
4	Chakra Flood Bund	0-3600	0.72	20	1:2 & 1:2	5’ (1988)
I	Spur RD. 0+735	0-200	0.04	20	1:2 & 1:2	5’ (1988)
Ii	Spur RD. 1+735	0-200	0.04	20	1:2 & 1:2	5’ (1988)
Iii	Spur RD. 2+735	0-200	0.04	20	1:2 & 1:2	5’ (1988)

5	Nullah Bein from entry point of nullah pak – Indo Border to Bein Nullah outfall near Kartarpur Corridor.	Its natural Nullah.				
Sialkot Drainage Sub Division Narowal						
2.1 Jassar Section						
1	Jassar Highway Bund	0-20000	4.00	20	1:3 & 1:2	5’ (1973)
I	J- Head Spur	0-7000	1.40	20	1:3 & 1:2	6’ (1973)
2	Jassar Flood Protection Bund	0-9300	1.86	20	1:3 & 1:2	6’ (1973)
I	Right Guide Bund	0-1400	0.28	20	1:3 & 1:2	6’ (1973)
Ii	Approach Bund	0-1500	0.30	20	1:3 & 1:2	6’ (1973)
Iii	Railway Spur	0-800	0.16	15	1:3 & 1:2	6’ (1973)
3	Flood Bund near Shuja Post	0-2000	0.40	20	1:3 & 1:2	6’ (1973)
4	Basantar Nullah Flood Bund U/S of Highway Bridge left side	0-26400	5.28	20	1:3 & 1:2	5’ (1985)
5	Basantar Nullah Flood Bund D/S of Highway Bridge Right side	0-11000	2.20	20	1:3 & 1:2	5’ (2025)
6	Basantar Nullah Flood Bund D/S of Highway Bridge Left side	0-3000	0.60	20	1:3 & 1:2	6’ (1973)
7	Fazilpur Drain	0-17000	3.40	8 10	1:1	16.08.1979
2.2 Chandian Section						
1	Chandian Flood Bund	0+000 - 17+900	3.58	25	1:3 & 1:2	6’ 2025
I	Earthen stud C/S at RD.3+110	0-190	0.038	20	1:2 & 1:2	6’ 2025
Ii	Earthen stud C/S at RD.3+300	0-350	0.07	20	1:2 & 1:2	6’ 2025
Iii	Guide Head spur at RD.5+900	0-600	0.12	25	1:2 & 1:2	5’ 1988
Iv	Solid stone stud at RD.6+700	0-194	0.04	20	1:2 & 1:1	5’ 1988
V	Mole Head Spur at RD.7+350	0-600	0.12	25	1:3 & 1:2	5’ 1988
Vi	Concavo - Convex Guide Wall at RD.8+200	0-800	0.16	20	1:2 & 1:2	5’ 1988
vii	Earthen stud at RD.9+100	0-200	0.40	20	1:2 & 1:2	6’ 2025
viii	Mole Head spur at RD.11+700	0-1600	0.32	25	1:3 & 1:2	5’ 1988
Ix	Mole Head spur at RD.15+000	0-1200	0.24	25	1:3 & 1:2	5’ 1988
X	Earthen stud at RD.17+070 C/S	0-600	0.012	20	1:2 & 1:2	6’ 2025

Xi	Mole Head spur at RD.17+300	0-600	0.12	25	1:3 & 1:2	5' 1988
2	Mehdi Dogar Bund from RD 0+000 to RD.10+100	0-10100	2.02	25	1:3 & 1:2	6' (2025)
I	Mehdi Dogar J- Head Spur	0-3200	0.64	25	1:3 & 1:2	6' (2025)
3	Daud Flood Bund from RD.0+000 to 30+900	0-30900	6.18	25	1:3 &1:2	6' (2025)
I	J-Head Spur No.1 at RD.11+300	3200	0.63	25	1:3 &1:2	5' (1988)
Ii	J-Head Spur No.2 at RD.14+300	4300	0.86	25	1:3 &1:2	5' (1988)
4	Jhajri Nullah	0-45000	9.00	22-24	1:1 0.44 0%	
5	Ghaziwal Drain	-	-	-	-	-
2.3 Rayya Section						
1	Rayya Flood Bund RD 0+000 - 94+000	0-94000	18.80	20	1:3 &1:2	5' (1973)
I	Spur RD 65+000	0-8200	1.64	25	1:3 &1:2	5' (1988)
Ii	Spur RD 75+000	0-5500	1.10	25	1:3 &1:3	5' (1973)
Iii	Spur RD 83+000	0-6400	1.28	25	1:3 &1:3	5' (1973)
Iv	Spur RD 89+000	0-8600	1.72	25	1:3 &1:2	5' (1988)
2	Side Drain	0-18000	3.60	120-180	1:1	2'
3	Tatle Drain	0-57000	11.40	50-60	1:1	3'
2.4. Deg Section						
1	U/S Kingra Bridge left side Bund	0-11250/L	2.25	20	1:3 &1:2	5
I	Spur at RD.7+000/L	0-250/L	0.05	15	For earthen 1:3 For Pitching 1:2	5
Ii	Spur at RD.7+750/L	0-175/L	0.035	20	For earthen 1:3 For Pitching 1:2	5
iii	Spur at RD.8+400/L	0-150/L	0.03	20	For earthen 1:3 For Pitching 1:2	5
Iv	Spur at RD.8+950/L	0-125/L	0.025	20	For earthen 1:3 For Pitching 1:2	5
V	Spur at RD.9+400/L	0-100	0.02	20	For earthen 1:3 For Pitching 1:2	5
Vi	Spur at RD.10+000/L	0-200	0.04	20	For earthen 1:3 For Pitching 1:2	5
Vii	Spur at RD.10+600/L	0-200	0.04	20	For earthen 1:3 For Pitching 1:2	5
viii	Spur at RD.11+200/L	0-200	0.04	20	For earthen 1:3 For Pitching 1:2	5
i	Spur at RD.0+800/L	0-400	0.08	20	For earthen 1:3	5

					For Pitching 1:2	
2	U/S Kingra Bridge right side Bund	0-14500/R	2.90	20	1:3 &1:2	5
I	Spur at RD.6+000/R	0-350	0.07	20	For earthen 1:3 For Pitching 1:2	5
Ii	Spur at RD.13+000/R	0-250	0.05	20	For earthen 1:3 For Pitching 1:2	5
3	U/S Chahoor Bridge to Kingra Bridge left side	0-27750/L	5.55	20	1:3 &1:2	5
I	Spur at RD.3+200/L	0-150/L	0.03	20	For earthen 1:3 For Pitching 1:2	5
Ii	Spur at RD.3+400/L	0-150/L	0.03	20	For earthen 1:3 For Pitching 1:2	5
Iii	Spur at RD.3+600/L	0-150/L	0.03	20	For earthen 1:3 For Pitching 1:2	5
Iv	Spur at RD.12+300/L	0-265/L	0.053	15	For earthen 1:3 For Pitching 1:2	5
V	Spur at RD.22+000/L	0-200/L	0.04	20	For earthen 1:3 For Pitching 1:2	5
Vi	Spur at RD.22+600/L	0-200/L	0.04	20	For earthen 1:3 For Pitching 1:2	5
4	U/S Chahoor Bridge to Kingra Bridge right side	0-29600/R	5.92	20	1:3 &1:2	5
I	Spur at RD.3+400/R	0-200/R	0.04	20	For earthen 1:3 For Pitching 1:2	5
Ii	Spur at RD.4+200/R	0-200/R	0.04	20	For earthen 1:3 For Pitching 1:2	5
iii	Spur at RD.4+800/R	0-200/R	0.04	20	For earthen 1:3 For Pitching 1:2	5
Iv	Spur at RD.5+400/R	0-200/R	0.04	20	For earthen 1:3 For Pitching 1:2	5
V	Spur at RD.6+000/R	0-200/R	0.04	20	For earthen 1:3 For Pitching 1:2	5
5	D/S Chahoor Bridge to Qila Ahmed Abad	0-50000 /L	10.00	20	1:3 &1:2	4’ (1988)
I	Mole Head Spur at RD.6+000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
Ii	Mole Head Spur at RD.7+200/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
iii	Mole Head Spur at RD.8+000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
Iv	Mole Head Spur at RD.8+500/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
V	Mole Head Spur at RD.9+000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
Vi	Mole Head Spur at RD.10+000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)

Vii	Mole Head Spur at RD.11+000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
viii	Mole Head Spur at RD.12+000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
Ix	Mole Head Spur at RD.13+000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
X	Mole Head Spur at RD.13+5000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
Xi	Mole Head Spur at RD.18+500/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
xii	Mole Head Spur at RD.18+925/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
xiii	Mole Head Spur at RD.19+500/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
xiv	Mole Head Spur at RD.20+000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
xv	Sloppy Stud at RD.22+000/L	0-0+150	0.03	20	1:2 & 1:2	4’ (1988)
6	D/S Chahoor Bridge to Qila Ahmed Abad	0-50000 /R	10.00	20	1:3 & 1:2	4’ (1988)
I	Mole Head Spur at RD.11+000/R	0-0+420	0.084	20	1:2 &1:2	4’ (1988)
Ii	Mole Head Spur at RD.11+500/R	0-0+100	0.02	20	1:2 &1:2	4’ (1988)
Iii	Mole Head Spur at RD.12+500/R	0-0+300	0.06	20	1:2 &1:2	4’ (1988)
Iv	Mole Head Spur at RD.13+000/R	0-0+150	0.03	20	1:2 &1:2	4’ (1988)
7	Nikki Deg					


INDEX PLAN
FLOOD BUND DIVISION, NAROWAL
IRRIGATION DEPARTMENT
SAMBA DISTRICT (INDIA)
BASANTAR NULLAH
DEG NULLAH
BEIN NULLAH
TARNAH NULLAH
UJH NULLAH
RIVER RAVI
ZAFARWAL
DHAMTHAL
SHAKAR GARH
NAROWAL
BASANTAR NULLAH
BUDHI NULLAH
JHARJHI NULLAH
INDIAN BUNDS & SPURS
INDIAN FLOOD BUND
INTERNATIONAL BOUNDRY
LEGEND
RIVER
NULLAHS
DRAINS
BUNDS / SPURS
RAIL WAY LINE
INTERNATIONAL BOUNDARY
VILLAGES
PROPOSED
FLOOD WATCHING CAMP

CHAPTER - 3

BRIEF HISTORY OF PAST FLOOD EVENTS

FLOOD DAMAGES 1988

During flood season 1988, Jalala flood protection bund was breached in-between between RD 14 ~ 15. Resultantly extensive villages (about 104 No) of Tehsil Shakaegarh, District Narowal were massively flooded. Due to high water head, across at breach site of bund, the damages were devastating. The super flood on 24-25 September 1988, which was to the tune of about 6,50,000 Cs at entry into Pakistan opposite Kot Nainan and 4,85,000 Cs was recoreded at Jassar. The T- Head spur No -2 & Spur No -8 of Hajipur Gujran were totally washed away and all flood bunds in the jurisdiction of this division were badly damaged & sustained heavy launching of apron.

FLOOD DAMAGES 1993 – 1998

During exceptionally high flood of 1993, Spur No – 3 & 4 of Hajipur Gujran flood bund, Chandian Mole Head spur were badly damaged, whereas Jassar J- Head Spur & Diversion Bund at Maddo Gale were partially damaged. The Spur No- 8 of Hajipur Gujran flood bund & tail Mole of Bheco Chak Flood Bund were severely damaged during abnormal flood of 1996. Its restoration works was completed after flood. However, it was again damaged during flood 1997.During flood of 1995-96, apex of horse shoe of river opposite Tie Flood Bund developed further & attached with Tie Flood Bund in reach RD 10+000 – 13+000. The river creek further reached in the toe of Tie Flood Bund during 1997 & finally breached the bund during 1998. Restoration of breached portion, as a Ring bund, has been constructed in a length of 5500’ to control the spill water of the River Ravi.

FLOOD DAMAGES 2005

During monsoon 2005, a number of freshets supplies were received in River Ravi &UjhNullah, which threatened the safety of bunds at different locations. Alarming situation occurred on 7/7/2005 at RD 3+500 – 4+500 of Jalala Flood Protection Bund near Ujh Nullah when flow started hitting the bund at right angle. The erosive action was so rapid that it eroded land strip of 30’ width in the toe of bund within few hours and damaged the water side slope of 60% bund. Immediate protective measures were adopted and the erosion was arrested by evening of 10thJuly. Likewise, with rise off load flows in Ravi River on 8/7/2005, sever erosive action started near tail Mole Bheco Chak Bund at reach RD 29+500 – 30+000. Bhecochak 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 catastrophic losses.

FLOOD DAMAGES 2014

During monsoon of 2014, flood as high as 75000 Cs was observed in Nullah Deg which breached.The bund in upper reaches due to which the flood water entered Tehsil zafarwal of District Narowal. The breach of bund was catastrophic as numerous villages were inundated.

FLOOD DAMAGES 2016

During flood season 2016, there were heavy freshets in Nullah Ujh that caused significant erosion. The affected reach was from RD 14 to RD 17 of Jalala Flood Protection Bund. Jalala flood bund has experienced high flows and water level attained was 864 ft above sea level. This flow damaged the noses of all 8 earthen spurs. On the recommendation of the Departmental Expert Committee the nose of spur 01 and 04 were converted into solid stone armored. While strengthening of the damaged noses of six number earthen spurs was carried out by dumping and stacking jute bags filled with sand. This emergent work was stopped midway after flood of 2016.

FLOOD DAMAGES 2017

A heavy rain on 13-07-2017 occurred in the catchment area of Ujh Nullah which resulted in torrential flows. The water level attained as a result of this flow was 860 ft a.s.l. The reconstructed spurs no 01 and 04 reflected/ acted/ functioned well but the intensive flows affected the earthen spurs no 5, 6, 7 and 8 by damaging their noses partially. On 17-06-2017 even higher torrential flows were observed in Ujh Nullah and as a result of the flow the rise in water level was 861 ft above sea level. This freshet caused significant damage by completely eroding the earthen spurs no 5, 6,7 and 8. Even the toe of the embankment in reach RD16 to RD 17 started eroding with dominant parallel flow along the bund.

FLOOD DAMAGES 2018

A heavy rain during July of River ravi 2018 in the catchment area ofUjh Nullah resulted in high flows. The water level attained as a result of this flow was 861 ft. above sea level. This high water level started eroding the embankment d/s of spur No. 8

FLOOD DAMAGES 2020

Anaverage rain during July of 2020 in the catchment area of River Ravi and Nullahs resulted in commonflows in Nullah Ujh, Deg Nullah, Bein Nullah and River Ravi. The water level attained as a result of this flow was 864.50 ft. above sea level at Ujh Nullah. The Max Discharge passed at Jassar was recorded 33000 Cs at Jassar. No any major damages occurred during flood season 2020.

FLOOD DAMAGES 2021

Flood magnitude of 20200 Cusecs at Jassar (Low Flood) passed during Flood season 2021 on 27.07.2021 in River Ravi.No major damages of any kind occurred to any structure of Flood Bund Division Narowal, except Chandian Dowel Bund near Chandian Flood Bund at RD.3+800. The work of Chandian Dowel Bund near Chandian Flood Bund at RD.3+800 has been taken up under M&R works was completed.

FLOOD DAMAGES 2022

Floods were received frequently in Nullahs / tributaries of River Ravi due to heavy rainfall in upper catchments of the Nullahs during the flood season 2022. Consequent upon torrential rains, Nullah Deg & Ujh received an exceptionally high flood on 15.08.2022. After passage of the freshets following damages have been reported by the field formation of Flood Bund Division Narowal.

i. Jalala Flood Protection Bund

An exceptionally High Flood entered in Ujh Nullah opposite RD 2+000 of Jalala flood bund and attained the gauge RL 865.30 on 15.08.2022 at 08.00 PM, endured constant for hours and subsided gradually to normal stage on 16.08.2022.

The exceptional discharge aggravated the damages to spur No.6 at RD 16+750 of Jalala Flood Protection Bund such that the armored rounded head of spur has sharpened / eroded.

ii. Bheco Chak Flood Bund

Numerous freshets were received in river Ravi during the month of July & August 2022 which heavily engaged the spur No.3 of Bheco Chak Flood Bund and the apron of spur was damaged in length of 240 ft resultantly the pitching was also damaged. The matter was reported to the higher office and this office was allowed to restore the damage portion of spur No.3 Bheco Chak Flood Bund by using available reserve stock of stone at site as per MIP guidelines. In consequences thereof contractor was engaged according to clause 59-D (iii) of PPRA rules and the apron of the spur was partially restored before the department ordered to stopped the emergent works and suggested to take up the balance work through competitive bidding.

iii. Chandian Dowel Bund

Chandian dowel bund direct hit for the last two years. Expert Committee suggested for construction of spur at RD 3+800 of Chandian Dowel Bund for protection of Chandian Dowel Bund. The spur was partially constructed before a freshet of 63000 cusecs on 16.08.2022. As a result of construction of this spur the river become quite on downstream side and deposited silt on affected area but the river become very aggressive on upstream side and created a sharp loop towards Chandian flood bund

upstream of spur RD 3+800 and continuously approaching towards the Chandian Dowel Bund.

iv. Deg Nullah

Deg nullah is a major flood carrying channel and tributary of river Ravi. An exceptionally high flood of 40650 Cusecs was received in deg nullah on 15.08.2022 resultantly a stud at RD 17+000/R washed away and breach occurred between RD 16+000-17+000/R of Deg Nullah due to presence of a thick jungle on the opposite side. The site was taken up on urgent basis and a loop bund was constructed to base the spill of deg nullah and a stud was constructed at RD 16+500/R of the deg nullah to check the erosive action of high velocity water. Tree launching was also done to control the erosion. Frequent flooding in the nullah also damaged a spur 18+925/L.

FLOOD DAMAGES 2023

Continuous floods were received in Nullahs / tributaries of River Ravi due to heavy rainfall in upper catchments of the Nullahs. Consequent upon torrential rains, Nullah Ujh & Deg received an exceptionally high flood on 09.07.2023 & 19.07.2023. Bein Nullah also received Medium level flooding on 09.07.2023 & 19.07.2023. Resultantly, river Ravi recorded a flood of 61776 Cs on 10.07.2023 and 71010 Cs on 20.07.2023 at Jassar gauging station. River Ravi remained in low flood condition from 20.07.2023 to 30.07.2023 consistently. During passage of the freshets newly constructed interventions were engaged causing some launching of stone but the structures behaved excellently and beside protecting the embankments they diverted the river and nullahs away from the embankments. Launching of apron/damages to other structures were also observed detail of which is as under:-

i. Jalala Flood Protection Bund

An exceptionally High Flood entered in Ujh Nullah opposite RD 2+000 of Jalala flood bund and attained the gauge RL 865.00 on 09.07.2023 at 11.00 AM, endured constant for hours and subsided gradually to normal stage on 12.07.2023.

No damage to any structure was observed but the main creek is currently flowing at the distance of 1500 ft from the embankment in between RD 5+000 to 8+000 which is likely to advance towards the embankments during next flood season as secondary creek was developed in the above mentioned RD that started to flow towards the embankment and was running parallel along the bank in-front of village bahar wal. Timely intervention is crucial to prevent this secondary creek from evolving into a serious issue, as it can become a potential threat and will not only compromise the strength of the bank but also jeopardize the safety of surrounding inhabitants. .

ii. Hajipur Gujran Flood Bund

An Medium Level Flood entered in river Ravi opposite RD 24+000 of Hajipur Gujran flood bund near Kot Nainan and attained the gauge RL 834.00 on 09.07.2023 at 11.00 PM, endured constant for hours and subsided gradually to normal stage on 10.07.2023.

No damage to any structure was observed, all the structures behaved excellently and flood safely passed from Hajipur Gujran flood protection bund beside a parallel flow was observed in between RD 8+000 to 20+000 of Hajipur Gujran flood protection bund opposite to village Dhariwal which needs serious attention. River Ravi enters into Pakistan near to Ayub Ranger post, opposite at RD 8+000 to 9+000 and after flowing in a sharp loop, it turns back to India after damaging vast agriculture land in the area. This sharp bend of River creates spill and a parallel flow along Hajipur Gujran Flood Bund at RD 8+000 to 20+000 upstream of mole head spur No.1. The loop is establishing at very fast pace towards Hajipur Gujran Flood Bund and currently the apex of end of loop is only 2500 ft away from the main bund and very rapidly enhancing towards the main bund and the same distance was 4000 ft in April 2023.

An old Ujh creek exist runs parallel to Hajipur Gujran Flood Bund near its toe. The flow of river entering the territory of Pakistan at Ayub Post remained within the two channels upto the river stage of about 20,000 cusecs. The river flow out-flanks into old Ujh creek at river stage of 30,000 cusecs which runs parallel to the bund. This old Ujh creek is at distance of about 1000 ft away from the sharp loop of River Ravi between RD 9+000 to 13+000 of Hajipur Gujran flood bund.

iii. Bheco Chak Flood Bund

Numerous freshets were received in river Ravi during the month of July & August 2022 which heavily engaged the spur No.3 of Bheco Chak Flood Bund and the apron of spur was damaged in length of 240 ft resultantly the pitching was also damaged. The damage portion was repaired before the onset of flood season 2023 resultantly the sharp loop developed by river Ravi upstream Spur No.3 was completely silted up during the flood season. After being deflected from the head of spur No.3 the river Ravi engaged the nose portion of spur No.4 of Bheco Chak Flood bund during the currents flood season which has resulted in launching of apron of spur No.4.

Since last few years the damaging intrusion of river Ravi in the said reach, is continuously being drifted towards the Right bank due to Indian imposition and the main current of flow is severely damaging the tail portion of Bheco Chak flood bund which is d/s from spur No.5 to tail end of Bheco Chak bund. Consequently, the

damaging main current of River is moving smoothly close to the toe of main bund in reach RD 25+500 to 28+500, and have created vulnerability on safety of main bund. The damaging current have encroached towards the toe of main bund and the distance of this river creek from the bund is only 80 ft and likely will assault the main bund during flood season 2024.

iv. Erosive action of River Ravi D/S Bheco Chak Flood Bund and U/S Balathour Check post

Severe erosive action of river Ravi D/s tail portion of Bheco Chak flood bund and U/s of Balathour Check Post has been observed during this year flood season which has resulted in complete vanishing of village Balaki chak. This erosion has entered a persistent cycle, posing a notable threat to the historical river creek that had long been abandoned. If left unchecked, this phenomenon could result in the detachment of a substantial land area, including numerous villages, critical defense infrastructure, and an expanse of territory. Furthermore, this shift in the flow pattern could exert profound alterations upon the approach towards the corridor encompassing Darbar Sahib Kartarpur. The river in that particular reach has completely eroded a vast land of village Balaki chak and river creek is developing very fast at Bein Nullah near village Madho Gole.

v. Chandian Dowel Bund

Chandian dowel bund was under direct hit for the last two years. Expert Committee suggested for construction of sloping spur at RD 3+800 & Guide Head Spur at RD 4+600 of Chandian Dowel Bund for protection of Chandian Dowel Bund. Both of spurs were completed before the onset flood season. The spurs behaved excellently and diverted the river away from Chandian Flood Bund which is now flowing about 1000 ft away from the bund. Only small launching of stone at nose portion of spur at RD 3+800 of Chandian Dowel Bund was observed during the freshet received in river Ravi on 10.07.2023.

Although the constructed structures during the last financial year protected the affected reach of Chandian dowel bund between RD 3+000 to 5+000 but the river has started propogating towards RD 0+000 of Chandian main bund which is located at the distance of 1.5 Km downstream of the affected site last year. In the tail portion River Ravi is flowing at the distance of just 33 ft from the toe of the tail mole and continuously approaching towards the bund after taking a sharp loop.

vi. Deg Nullah

Deg Nullah received a very high flood of 31,556 Cs on 19.07.2023, High floods of 17563 Cs on 27.07.2023, 15506 Cs on 13.08.2023, 14525 Cs on 14.08.2023, 12553

Cs on 12.09.2023, 17467 Cs on 13.09.2023 and 10193 Cs on 15.09.2023. An inverted Hockey spur is being constructed on recommendation of Departmental Expert at RD 16 - 17/R of Deg Nullah. The partially constructed inverted hockey spur behaved excellently and diverted the main creek in the center of stream during freshets on 19.07.2023, 27.07.2023, 13.08.2023 and 14.08.2023 but while receiving the freshet at velocity of 15 - 18 ft/ Sec, the nose of inverted hockey launched by 10ft in length. The inverted hockey spur pushed the main creek towards left side where after a sharp loop it hit the recently completed solid portion of a spur at RD 18+925/L of Deg Nullah. Although the spur protected embankment on its upstream and downstream but the spur at RD 18+925/L of Deg Nullah itself received severe hit and concentrated flow with high velocity resulted in launching of nose and side slope behind the nose on upstream side in 20 ft length. A pit 15 feet in depth on upstream side of nose was also observed during the frehet on 19.07.2023, 27.07.2023, 13.08.2023 and 14.08.2023. Since the structure is newly constructed and projected 50 ft inside main creek it faced a direct hit of flood water as well as launching of stone. During the freshet of 12553 Cs on 12.09.2023, the main creek moved towards the right side downstream of partially constructed embankment damaging the toe of the embankment but on the left side the main creek shifted away from Spur RD 18+925/L and started hitting the nose of Spur RD 19+500/L and severely damage the spur while washing away its nose during the freshet received on 13.09.2023 and 15.09.2023.

FLOOD DAMAGES 2024

Floods were received frequently in Nullahs / tributaries of River Ravi due to heavy rainfall in upper catchments of the Nullahs during the flood season 2024. Consequent upon torrential rains, Nullah Deg, Ujh and River Ravi received an flood on 11.08.2022,15.08.2024 and 16.08.2024. Detail as as under:-

i. JALALA FLOOD PROTECTION BUND

Low Flood entered in Ujh Nullah opposite RD 2+000 of Jalala flood bund and attained the gauge RL 860.00 ft discharge 25000 Cs on 11.08.2024 at 9.00 AM, after 1 hour gauge increases RL 861.00 ft discharge 35000 Cs (Medium flood) endured constant some hours and subsided gradually to normal stage RL 855.04 discharge 4500 Cs on 12.08.2024. 2nd time Low Flood entered in Ujh Nullah the gauge RL 859.80 ft discharge 22500 Cs on 15.08.2024 at 12.00 PM, after 2 hour gauge increases RL 861.00 ft discharge 35000 Cs (Medium flood) endured constant some hours and subsided gradually to normal stage RL 856.02 discharge 6500 Cs on 16.08.2024.

No damage to any structure was observed.

ii. Hajipur Gujran Flood Bund

River Ravi, no structural damage occurred on the Hajipur flood embankment, and the floodwaters remained confined to the main creek. However, in front of RD 9+000 of the Hajipur embankment, an old parallel creek continues to flow up to RD 21+000 along the embankment, whenever the discharge of over 25,000 cusecs is received in main creek it outflanks into the parallel creek. This parallel creek poses a potential risk as it may continue to develop and establish a permanent flow path adjacent to the main embankment, collecting flow in addition to the main creek. It is recommended to obstruct this flow in order to prevent further development and ensure the long-term stability of the embankment. Although no damage has occurred at this time, proactive intervention is necessary to mitigate future potential risks.

iii. Bheco Chak Flood Bund

River Ravi is concerned this report documents the damage sustained to the apron of Spur No. 4 Bhiko Chak flood embankment on the River Ravi, which launched as a result of severe and continuous hits of flood water during the flood season. The sub engineer reported vide canal wire, and a subsequent site inspection was conducted.

The apron of the spur launched due to multiple, intense hits from floodwaters during the flood season. As noted in the inspection, the continuous flow of water directly in front of the spur has caused significant stress on the structure front portion. The key factor contributing to this is the alteration of the river's main creek, which is now flowing directly towards and around the head portion of the spur. This deviation of creek occurred during the last flood season, has caused an increase in water pressure and velocity in the area, leading to aggravated scour condition that has further exacerbated in this flood season and the progressive meandering approach of flow around the head portion of spur that has caused launching of the apron in certain length.

iv. Bein Nullah at Shakargarh

The report outlines the damage sustain and development of the flow in the High flood season. Whereas Bein Nullah is concerned a medium flood level received that is the highest of last 9-years. Damage at one of our structure on Bein Nullah at Channi Nagrota took place. The damage resulted from a medium-level flood in Bein Nullah, on 15.08.2024 which received a max. discharge 14,025 cusecs of water in the ongoing flood season, leading to significant structural damage to Stud 4. Upon inspection, it is observed that the solid nose and side slope of Stud 4 got damaged along with pitching. The floodwater had exerted immense pressure on the structure,

eroding the nose portion, side slopes and pitching. The damage to Stud 4 is a part of pattern of erosion that has developed upstream. The continued high flow of water in Bein Nullah has exacerbated the progression of loop that caused damage. The development of loop was observed upon which a proposal for the construction of the three upstream solid studs was submitted to the Provincial Disaster Management Authority (PDMA) for approval and necessary action before the on-set of flood season to avoid potential damage. The proposed interventions were aimed at protecting further erosion due to development of loop and ensuring the safety of the surrounding communities and agricultural land However, inundation occurred in bein nullah and spread extensively downstream chatri site. The flood water in form of sheet flow reached Narowal-Shakargarh road near bustan station as there is no embankment along Bein Nullah.

Based on the recent flood behavior, it is proposed for the following revisions to the flood categorization limits for Bein Nullah. The adjustment is based on the recent peak of 14000 Cs received that has cause moderate outflanking, suggesting the need for revision to better reflect the ground realities.

- Low flood (Cs) 5000-10000 against 1600-3000
- Medium flood (Cs) 10000-15000 against 3000-10000
- High flood (Cs) 15000-20000 against 10000-20000
- Very High flood (Cs) 20000 and above.

v. Jssar J-Head Spur.

Jassar J-Head spur situated D/S right side of River Ravi Kartarpur Corridor. River Ravi at Jassar received 40440 Cs on 16.08.2024 at 10.00 A.M endured constant two days and subsided gradually to normal stage discharge 9219 Cs on18.08.2024.

No damage to any structure was observed in flood season 2024.

vi. Chandian Dowel Bund.

River Ravi at Chandian Dowel Bund, Jassar received 40440 Cs on 16.08.2024 at 10.00 A.M endured constant two days and subsided gradually to normal stage discharge 9219 Cs on18.08.2024.

No damage to any structure was observed in flood season 2024.

vii. Daud Bund.

River Ravi at Daud Bund, Jassar received 40440 Cs on 16.08.2024 at 10.00 A.M endured constant two days and subsided gradually to normal stage discharge 9219 Cs on18.08.2024.

No damage to any structure was observed in flood season 2024.

viii. Downstream J-2 & Daud Post.

A newly developed creek, 1.5 miles downstream from J-2 spur & Daud post has merged with the Jhajri Drain/old Ravi River creek, expanding over recent flood seasons and bypassing stabilized structures like the ganda bund. During the 2024 flood, 50% of floodwaters were diverted into this creek, causing severe damage to cultivable land, flooding in Daud village, and accelerated erosion near the main embankment, threatening Pakistan Rangers' defense installations. The increased river pressure on Daud Flood Bund (RD 18+000 to 30+900) and the tail of Mehdi Dogar Flood Bund has further endangered their stability, putting farmland and key infrastructure at risk. This continuous drifting to River Ravi towards right side needs to be taken care, so that allied abadies and infrastructure on Pakistan side can be protect from any major damage during flood season.

ix. Deg Nullah

Deg Nullah received a Medium flood of 10983 Cs on 15.08.2024 at 11.00 A.M (Medium flood) endured constant some hours and subsided gradually to normal stage discharge 5670 Cs on 15.08.2024.

Flood works being executed after flood season 2023 detail are as under:-

1. A spur was proposed at RD.16+975/R in DEC meeting Dated. 18.12.2022 of Deg Nullah D/S Chahoor Bridge has been completed at site. A prong was constructed from RD.16+975/L to RD. 17+320/L. During flood season 2024 it is observed that flood water direct hit to Structures at RD.16+975/L RD. 17+320/L. It is therefore suggested that 500 ft stone pitching may be provided for the safety of the Embankment and structure.

2. Spur at RD.18+925/L & RD.19+500/L was completed. It is also observed during flood season 2024 flood water directly hit at the nose of these structures and embankment. It is therefore suggested that 500 ft stone pitching may be provided for the safety of the Embankment and structure.

FLOOD DAMAGES 2025

Floods were received frequently in Nullahs / tributaries of River Ravi due to heavy rainfall in upper catchments of the Nullahs during the flood season 2025 Consequent upon torrential rains, Nullah Deg, Ujh and River Ravi received from 26.08.2025 to 28.08.2025. Detail as as under:-

i. Jalala Flood Protection Bund.

Jalala flood bund is located at Ujh Nullah. Nullah Ujh is one of the most prominent tributaries of River Ravi in Tehsil Shakargarh of District Narowal. Ujh Nullah enters

Pakistan near village Gharota. After flowing few kilometers in Pakistan, it traverses back into India to outfall into River Ravi in Indian territory u/s of Kot Naina. The flood in Nullah Ujh are extensive which result in parallel flow along Jalala flood protection bund. This 26700 ft. long bund have 20 feet top width and five feet free board over HFL of 1988 with 3:1 and 2:1 side slopes on river side and country side respectively. The infrastructure of Jalala Flood bund constructed in year 1982 ensures the safety of cash crops over vast area, village populations, civil amenities, human and wildlife in addition to its benefits regarding defence point of view.

Torrential rains in District Narowal, particularly Tehsil Shakargarh, and more importantly in the upper catchment areas of India and Jammu & Kashmir, caused significant increases in inflows into the River Ravi and its tributaries, including Nullah Ujh.

On 24th August 2025 a freshet of medium flood received and water was flowing parallel to bund while this medium flood converted into high floo on 26th August and become low flood on 28 flood.The Jalala Flood Protection Bund, recorded a high flood on 26th August 2025. As compared to 1988 HFL

Gauge & Discharge data of Nullah Ujh at Jalala Bund during Flood Season 2025.

Date	Time	Nullah Ujh		
		Gauge (Ft)	Discharge (cuusecs)	Category of Flood
24.08.2025	17:00	862.00	42000	Medium Flood
25.08.2025	0:00	858.70	13500	Normal
26.08.2025	19:00	864.70	63500	High Flood
27.08.2025	0:00	863.80	58000	High Flood
28.08.2025	0:00	859.70	22000	Low Flood
29.08.2025	20:00	859.30	18000	Low Flood
30.08.2025	7:00	860.90	34000	Medium Flood
31.08.2025	17:00	861.00	35000	Medium Flood
01.09.2025	0:00	859.10	16000	Low Flood
02.09.2025	20:00	862.00	42000	Medium Flood
03.09.2025	0:00	861.80	40600	Medium Flood
04.09.2025	0:00	859.60	21000	Low Flood

Detail of flood damages:

When the discharge in Ujh Nullah exceeded 25,000 cusecs, water began to overflow from the channel bed and spread across the surrounding area. The overflowing water started flowing parallel to the main bund, resulting in the following damages:

i. The fast-flowing floodwater eroded embankments and riverbanks, resulting in the loss of land as well as damage to the main bund and its allied structures between RD 8+000 to 14+000.

ii. The overall side slopes of the bund were damaged, particularly on the river side, from RD 0+000 to RD 26+000.

iii. Extensive rain cuts and garas were developed between reaches:

- RD 7+000 to 17+000 (both sides)
- RD 2+000 (river side)
- The major portion of allied structures including spurs damaged specifically nose portion and river sides.
- The top width of the bund eroded with heavy rainfall between RD 7+00 to RD 9+00.

iv. After the flood, when the water level began receding, Ujh Nullah altered its flow pattern from the east to the west side, directing its course towards the main bund. This caused severe erosion along the main embankment and its allied structures, including spurs and studs. At present, floodwater is directly striking the bund between RD 6+000 and RD 8+000, and between Spur No. 2 and Spur No. 3 (RD 13+000 to RD 14+000).

v. All ramps of the bund were damaged.

vi. The solid nose portions of spur No 1, 2 and 3 were eroded and settled due to force of floodwater.

ii. <u>Hajipur Gujran Flood Protection Bund.</u>

Hajipur Gujran flood bund is located in the South-East of Tehsil city Shakargarh District Narowal at River Ravi. This 37750 ft. long bund have 25 feet top width provided with Six feet free board over HFL 1988, 3:1 & 2:1 side slope on River side and country side respectively. Hajipur Gujran bund with Eight allied spurs was constructed during 1980s to protect the village abadies, agricultural lands, civil infrastructures and the other life lines on the Right flank of river Ravi. Hajipur Gujran bund and allied spurs perform a prime role to check spill, retain the main current of River Ravi along the Indo-Pak border and buttress the encroachment of river in-wards the homeland.

Torrential rains in District Narowal and the upper catchment areas of India and Jammu & Kashmir significantly increased inflows into the River Ravi. Sudden releases from the upstream Madhopur Headworks further contributed to a surge of water, resulting in excessive erosion of the Hajipur Flood Protection Bund.

The Hajipur–Gujran Flood Protection Bund faced exceptionally high flood levels after 37 years — the highest since 1988. On 25th August a freshet of medium flood category passed through Ravi with no significant damage. On 26th August 240000 Cs discharge passed and on 27th August the highest discharge of 250,000 cusecs was recorded at Kot Nainan, which not only compromised the integrity of the embankment but also severely weakened the side slopes and the top width of the bund.

The details of flood water levels recorded during the 2025 flood season are as under:

Gauge & Discharge data of River Ravi at Kot Naina during Flood Season 2025.

Date	River Ravi at Kot Nainan			
	Time	Gauge (Ft)	Discharge (cusecs)	Category of Flood
24.08.2025	22:00	832.70	62600	Low Flood
25.08.2025	23:00	834.00	75000	Medium Flood
26.08.2025	23:00	838.90	240000	Very High Flood
27.08.2025	0:00	839.00	250000	Exceptionally High Flood
28.08.2025	0:00	835.70	92000	Medium Flood
29.08.2025	0:00	834.20	77000	Medium Flood
30.08.2025	10:00	833.50	70000	Low Flood
31.08.2025	20:00	832.10	64200	Low Flood
01.09.2025	0:00	831.80	55600	Low Flood
02.09.2025	20:00	832.20	58600	Low Flood
03.09.2025	9:00	833.50	70000	Low Flood
04.09.2025	10:00	833.80	73000	Low Flood
05.09.2025	0:00	832.30	59400	Low Flood
06.09.2025	0:00	831.90	56300	Low Flood

Detail of flood damages:

When the discharge in River Ravi exceeds 50,000 cusecs, the river overflows its banks and begins flowing parallel to the main bund. This activates old creeks and natural spill channels, resulting in the following damages:

i. The overall side slopes of the bund, from RD 0+00 to RD 36+00, were damaged due to excessive rains and direct water impact. Owing to the very high flood, the side slopes — particularly on the river side — were severely disturbed.

ii. Extensive rain cuts and gharas were observed at the following reaches:

- RD 2+00 to RD 6+00
- RD 8+00 to RD 12+00
- RD 14+00 to RD 23+00
- RD 32+00 to RD 33+00

iii. The ongoing stone pitching work at Ishaaq Forward Post, carried out under the M&R work plan, was completely eroded.

iv. After the flood, when water levels began receding, the River Ravi altered its flow pattern from the east to the west side. This caused severe erosion along the main embankment and its allied structures, including spurs and studs between RD 14+000 to 24+000.

v. At several reaches, due to heavy rainfall, the top width of the bund was also reduced i.e RD 6+000 to 9+000 and 14+000 to 20+000.

vi. All ramps of the bund were damaged.

vii. The solid nose portions of spurs and studs were eroded and settled under the force of floodwater.

iii. Bheco Chak Flood Protection Bund.

Bheco Chak flood bund is located at river Ravi in the South-East of tehsil Shakargarh district Narowal. This 30500 ft. long bund have 20 feet top width and five feet free board over HFL 1973 with 3:1 & 2:1 side slopes on river side and country side respectively. Bheco Chak flood bund was constructed during year 1985 to protect the village abadies, agricultural lands, civil infrastructures and other life lines. The infrastructure of Bheco Chak bund ensures the safety of cash crops over vast area, village populations, civil amenities, human and wildlife in addition to its benefits regarding defence point of view.

On 27th August 2025, a discharge of 250,000 cusecs—classified as an Exceptionally High Flood—was recorded in the River Ravi.

Detail of flood damages:

i. A local Nullah serves as the primary drainage channel for rainwater from several villages surrounding Kot Naina Town. This Nullah ultimately outfalls into the River Ravi at RD 3+000 of the Bheco Chak Flood Bund. On the same date, unusually heavy rainfall in the area resulted in an exceptional increase in the flow of the Nullahs. Simultaneously, the River Ravi was in an exceptionally high flood. The combined pressure from both the river side and the Nullah side caused severe stress on the Bheco Chak Flood Bund, culminating in a breach at RD 3+000.The Zonal Technical Committee inspected the site on 1st September 2025 and recommended the immediate closure of the breached portion to prevent the spread of floodwater in case of further rise in river flows. In compliance with these instructions, the breached portion was promptly closed.

ii. Main Bund damaged between RD 27+800 to 28+500.

iii. Solid Stone Stud at RD 26+800 — solid stone portion completely washed away; erosion continues on pitching portion.

iv. Solid Stone Stud at RD 27+300 — pitching portion damaged about 50 feet.

v. Solid Stone Stud at RD 27+800 — solid stone portion completely washed away; erosion continues on pitching portion.

vi. At RD 28+500, the old stud constructed in 2003 is currently exposed to direct water impact and is sustaining damage from both upstream and downstream sides.

vii. The toes and pitching of existing old studs have been damaged at the following locations: RD 29+200, RD 29+500, and RD 29+750.

viii. Water is now flowing parallel to the toe of the bund between RD 27+300 and RD 29+500, which may increase the risk of further erosion and structural weakening.

iv. Tie Flood Bund

Tie flood bund is located in the South-East of Tehsil city Shakargarh District Narowal at River Ravi. This 16+500 ft. long bund have 20 feet top width and six feet free board over HFL 1998, 3:1 & 2:1 side slopes on River side and country side respectively. Tie flood bund was constructed during year 1995-96 to protect the village abadies, agricultural lands, civil infrastructures and the other life lines. Tie flood bund perform a major role to retain the main current of River Ravi along the Indo-Pak border and buttress the encroachment of river in-wards the homeland in between Hajipur Gujran & Bheco Chak flood bund. The infrastructure of Tie flood bund ensures the safety of cash crops over vast area, village populations civic amenities, human and wildlife in addition to its benefits regarding defence point of view.

Detail of flood damages:

During the exceptionally high flood of 27th August 2025, the bund was subjected to heavy hydraulic pressures. As a result:

i. Spur No. 1 and Spur No. 2 minor damaged due to the direct impact of flood water. Solid nose portion of Spur No 1 eroded minor.

ii. Between Spur No. 1 and Spur No. 2, rapid land erosion has been observed, particularly after the floodwaters receded.

iii. The side slopes of the bund, particularly on the river side, were significantly eroded by fast-flowing waters between RD 0+000 to 7+000.

iv. Crack was observed at the top of bund at RD 11+000 to 13+000.

v. Bein Nullah at Shakargarh

Bein Nullah is one of the most prominent Nullah in district Narowal. It enters into Pakistan territory from occupied Jammu and Kashmir near village Sukmal Tehsil Shakargarh and fall into River Ravi U/S Jassar near Darbar Sahib Kartarpur. It is basically rainy channel which is almost low water in winter but have flashy discharge in the monsoon season. It recorded historical discharge of 47000 cusecs on 26th August 2025.Its length is almost 50 miles from the entrance point to its outfall in River Ravi. The catchment area of Nullah is about 350 sq. miles. Topography of area is sub mountainous with an average slope of 5.0 ft. per mile. All the way it takes the local

run off and simultaneously its discharge from catchment area multiplies with local run off of other tributary Nullah due to steep slope of country and meandering action. It recorded historical discharge of 47,874 cusecs on 26th August 2025.

Detail of flood water recorded during flood season 2025 are as under: -

Gauge & Discharge data of Nullah Bein during Flood Season 2025.

Date	Time	Bein Nullah		
		Gauge (Ft)	Discharge (cusecs)	Category of Flood
24.08.2025	13:00	880.80	5056	Medium Flood
25.08.2025	0:00	878.30	1656	Low Flood
26.08.2025	17:00	888.80	47874	Exceptionally High Flood
27.08.2025	0:00	884.30	15394	High Flood
28.08.2025	0:00	879.30	2905	Low Flood
29.08.2025	16:00	879.50	3157	Medium Flood
30.08.2025	7:00	882.00	7120	Medium Flood
31.08.2025	20:00	880.00	3787	Medium Flood
01.09.2025	0:00	879.50	3157	Medium Flood
02.09.2025	17:00	883.00	10122	High Flood
03.09.2025	0:00	882.00	7120	Medium Flood
04.09.2025	0:00	880.00	3787	Medium Flood
05.09.2025	0:00	877.90	1195	Normal

Detail of flood damages:

During the exceptionally high flood of 2025, several additional vulnerable sites within the jurisdiction of the Flood Bund Division Narowal sustained damages:

i. Chak Nara: Severe erosive action was observed due to high-velocity flood currents.

ii. Nagrota Jadeed: The first two studs were damaged by the intense flow of floodwater in Bein Nullah.

iii. Chakra Bund: Stud No. 1 and the first 500 ft. length and tail mole of the bund sustained significant damage under the impact of exceptionally high flood levels.

iv. Ganda Bund at (Fatehpur Gujran village): The 50 ft solid nose portion of the bund was damaged by high flood.

vi. Jassar Highway Flood Bund and allied structures

The Jassar Highway Flood Bund plays a crucial role in retaining the main current of the River Ravi along the Indo-Pak border at Kartarpur Sab, acts as a defensive

barrier to prevent the encroachment of the river into homeland areas and main road Narowal to Shakargarh.

The Jassar Highway Flood Protection Bund faced exceptionally high flood levels after 37 years — the highest since 1988. On 27th August 2025 the river recorded an exceptional high discharge of 2,40,500 cusecs at Jassar.

The details of flood water levels recorded during the 2025 flood season are as under:

Gauge & Discharge data of River Ravi at Jassar during Flood Season 2025.

Date	River Ravi at Jassar			
	Time	Gauge	Discharge	Category of Flood
24.08.2025	23:00	781.00	16700	Normal
25.08.2025	23:00	787.10	80220	Medium Flood
26.08.2025	23:00	791.50	180800	Very High Flood
27.08.2025	9:00	793.30	240500	Exceptionally High Flood
28.08.2025	0:00	791.00	166500	Very High Flood
29.08.2025	0:00	787.90	95580	Medium Flood
30.08.2025	20:00	787.90	95580	Medium Flood
31.08.2025	0:00	787.90	95580	Medium Flood
01.09.2025	13:00	786.50	71010	Low Flood
02.09.2025	0:00	785.70	59940	Low Flood
03.09.2025	13:00	787.60	89820	Medium Flood
04.09.2025	12:00	787.30	84060	Medium Flood
05.09.2025	0:00	787.00	78300	Medium Flood
06.09.2025	0:00	786.60	72648	Low Flood

Detail of flood damages

Torrential rains in District Narowal and the upper catchment areas of India and Jammu & Kashmir increased inflows into the Ravi. Sudden releases from the upstream Madhopur Headworks further aggravated the situation, causing a surge of water and excessive erosion of the Jassar Flood Protection System, particularly along the riverside. Jassar Highway Flood Protection Bund experienced exceptionally high flood levels after 37 years — the highest flood in River Ravi since 1988.

i. Apron portion of J-Head Spur at Jassar Highway Bund was partially damaged.
ii. Jassar Bund breached between RD 7+000 to 8+000.
iii. Left guide bund breached between RD 0+000 to 1+000.
iv. The fast-flowing floodwaters severely eroded embankments and riverbanks, leading to significant land loss.
v. Overall side slopes of the entire bund were damaged due to excessive rainfall and direct impact of high floodwater on 26th and 27th August 2025. The riverside slopes, in particular, were completely disturbed.

vi. At several RDs, extensive rain cuts and gharas were observed at different points.
vii. At certain reaches, the top width of the bund was reduced due to excessive rainfall.
viii. All ramps of the bunds were extensively damaged.

vii. Chandian Flood Bund including its allied structures.

The Chandian Flood Bund, extending from RD 0+000 to RD 18+000, comprises three segments — the Chandian Main Bund, Chandian Dowel Bund, and Chandian Extension Bund. These sections were constructed periodically in response to major historical floods. All segments share a uniform design profile and identical top Reduced Level (R.L.) and are collectively referred to as the Chandian Flood Bund.

The bund is located downstream of the Jassar Gauging Station, while the Budhi Nullah and Basantar Nullah outfall into the River Ravi opposite this bund. Owing to the meandering nature of the river, several allied protective structures have been provided along its length. The River Ravi enters Pakistani territory opposite RD 6+000 and re-enters Indian territory near the tail portion of the bund.

During the 1988 floods, the Chandian Dowel Bund was overtopped and breached near Village Chak Bathinda due to low level and insufficient design parameters , resulting in the formation of a new creek that diverted the flow towards Daud Village, where the Jhajri Drain outfalls into the River Ravi. Subsequently, the breach was closed, and several mole-head and guide-head spurs were constructed with adequate freeboard to restore stability. These interventions successfully closed the newly developed creek, enabling the river to revert to its original course.

Detail of flood damages

i. The earthen shank portion of the guide-head spur at RD 5+900 has been damaged.
ii. The mole-head spurs located at RD 7+350, RD 15+500, and the tail mole at RD 17+900 were subjected to heavy hydraulic pressure. Their aprons were launched along with partial stone pitching. Due to continuous erosion, the stone aprons were reduced and displaced, thereby compromising their effectiveness.
iii. After the flood, when the water level receded, the river altered its flow pattern, causing severe erosion along the main embankment as well as its allied structures, including spurs and studs.
iv. At certain reaches, the top width of the bund was reduced due to excessive rainfall.
v. All ramps of the bunds were extensively damaged.

vi. The slopes of the Chandian Flood Bund are eroded throughout its entire length, and rain cuts (gharas) have developed at several locations.
vii. Major cracks have appeared along the top of the bund.
viii. At RD 7+350, the apron of the mole-head spur has launched, and approximately 50 feet length of stone pitching has been damaged. The earthen shank slopes at this location are also eroded.
ix. The solid stone stud at RD 14+600 shows erosion of slopes and major cracks on the top.
x. The mole-head spur at RD 15+500 has suffered erosion of earthen slopes, its apron has launched, and the width of the structure has reduced to about 20 feet against the design width of 50 feet.
xi. All ramps along the bund have been extensively damaged

viii. <u>Daud Flood Bund including its allied structures.</u>

Daud Flood Bund and its allied structures were constructed in 2015–16 after a comprehensive model study, covering RD 0+000 to 18+000 with two J-head spurs. Before the construction of Daud Flood Bund, an Army Ditch-Cum-Bund existed for defense purposes, starting from Chandian Flood Bund at RD 15+500 and extending up to the Mehdi Dogar J-Head Spur. During the year 2015–16, this Ditch-Cum-Bund was converted into a flood protection bund after a detailed hydraulic model study conducted at IRI, Nandipur. The approved design comprised a flood bund from RD 0+000 to RD 29+000, incorporating two J-Head spurs, a cunette, and a Ganda Bund, aimed at training the River Ravi and providing protection to Village Daud Khas and its adjoining agricultural lands.

However, due to shortage of funds, the project could only be completed from RD 0+000 to RD 18+000, including the construction of two J-Head spurs, while the remaining reach from RD 18+000 to RD 29+000 remained unexecuted.

In the last year's ADP, the remaining portion of the work was again included, and a detailed survey was carried out and forwarded to IRI Nandipur for a comprehensive model study to analyze the erosive action of the River Ravi between RD 18+000 and the Mehdi Dogar Flood Bund tail. Unfortunately, due to non-availability of funds, the proposed model study could not be conducted.

Subsequently, the ADP scheme was approved, and the contract was awarded. Construction work on the flood bund and bridge was initiated, and as of the latest progress report, the execution has reached approximately 60% completion.

<u>Detail of flood damages</u>

i. The slopes of the Daud Flood Bund have been eroded throughout its entire length, with significant rain cuts (gharas) developed at multiple locations, indicating extensive surface deterioration.
ii. Major cracks have appeared along the top of the bund, reflecting settlement and loss of structural integrity due to prolonged flood pressure and saturation.
iii. The earthen shank portion of the J-Head spurs has sustained considerable damage, reducing their efficiency in resisting direct river attack.
iv. The apron of J-Head Spur No. 1 has been launched, exposing the toe portion and increasing the vulnerability of the structure to further scouring.
v. Between RD 16+000 and RD 18+000, the bund has been cut and eroded by more than half of its original section, severely weakening this reach and requiring urgent restoration.
vi. At RD 18+000, approximately 100–150 ft of the bund was completely washed away under intense flood pressure.
vii. The under-progress ADP scheme, comprising the flood bund and V.R. Bridge, was badly affected and breached at three locations due to openings in existing army bunkers. The approaches and ramps around the V.R. Bridge were also completely washed away, halting construction activities.
viii. A newly developed creek opposite RD 29+000 of the Daud Flood Bund has widened and deepened, causing obstruction in the natural flow of Jhajri Nullah due to siltation at the junction point, resulting in backwater effects towards Daud Village.
ix. All ramps along the bund have suffered extensive damage, rendering them unfit for vehicular movement and severely affecting access for maintenance and inspection purposes

ix. Mehdi Dogar Flood Bund including its allied structures

The Mehdi Dogar Flood Bund extends from RD 0+000 to RD 10+100 and includes one J-head spur. The bund starts from the country side (shadow) of the under-construction Daud Flood Bund, opposite RD 26+000, and extends up to the international boundary. The top width of the bund is only 20 ft., which is less than the 25 ft. width prescribed in FFC guidelines, making it non-compliant in terms of top width, side slopes, and freeboard. Although the bund was not overtopped during the current exceptionally high flood, it was breached at several points during the 1988 flood. At present, the bund's condition is severely deteriorated due to prolonged exposure to weathering, lack of maintenance, and the impact of recent heavy rains. Moreover, due to the formation of a newly developed creek of the River Ravi opposite the bund, high-velocity currents now strike the bund from the river side, causing direct flow towards the toe of the bund, which poses a serious threat to its stability and safety.

Detail of flood damages

i. The Mehdi Dogar Flood Bund extends from RD 0+000 to RD 10+100 and includes one J-head spur.
ii. The bund has a top width of only 20 ft. instead of the required 25 ft., making it non-compliant with FFC guidelines in terms of top width, side slopes, and freeboard.
iii. The bund was not overtopped during the current flood; however, in 1988, it was overtopped and breached at several points.
iv. Presently, the condition of the bund is severely deteriorated due to wear and tear as well as the impact of heavy rains.
v. All ramps of the bund have been eroded, while gharas/rain cuts were observed at the NSL (Natural Surface Level).
vi. The launching apron of the J-spur was launched and reduced by about 5–10 ft. in width at locations where direct river hits occurred.

x. Rayya Flood Protection Bund and its allied structures

Rayya Flood Bund starts form vicinity of Narowal city and after covering a length of 94000 ft. ends with the left bank of MR link canal. This bund provides protection and safety against floods to a wide spread area at its site country side which is thickly populated, major inter district roads, public and private infrastructures, industrial units, HUBCO power house and the agricultural tract yielding cash crops.
4 No. spur are intakes with Rayya Flood Bund at RD.65+000, 75+000, 83+000 and 89+000. The Rayya Flood Protection Bund faced exceptionally high flood levels after 37 years — the highest since 1988. While the safe discharge capacity of the River Ravi is 150,000 cusecs, on 27th August 2025 the river recorded a discharge of 2,40,500 cusecs at Jassar. This was far beyond its safe capacity.

Detail of flood damages

i. Mole Head spur at RD.75+000 mole portion was damaged.
ii. J-Head Spur at RD.89+000 nose portion was damaged.
iii. Rayya Bund between RD.64+000 to 65+000 breach.
iv. Sides slopes of complete bund damaged specially river side.
v. Ramps of bund and top of bund damaged due to excessive rainfall.

xi. Basanter Nullah Bund at Narowal

Basanter Nullah is one of the most prominent Nullah in district Narowal. It is basically rainy channel which is almost low water in winter but have flashy discharge in the monsoon season.

It recorded historical discharge of 11,766 cusecs on 27th August 2025. Water overtopped the embankment at RD 0+000,

Detail of flood water recorded during flood season 2025 are as under:

Gauge & Discharge data of Nullah Basanter Narowal to Shkargarh road during Flood Season 2025.

Date	Time	Basantar Nullah		
		Gauge	Discharge	Category of Flood
24.08.2025	0:00	784.50	1839	Low Flood
25.08.2025	0:00	784.00	1498	Low Flood
26.08.2025	22:00	789.30	6531	Medium Flood
27.08.2025	10:00	792.10	11766	Very High Flood
28.08.2025	0:00	791.00	9437	High Flood
29.08.2025	0:00	788.60	5626	Medium Flood
30.08.2025	0:00	786.90	3751	Low Flood
31.08.2025	0:00	786.50	3377	Low Flood
01.09.2025	0:00	786.50	3337	Low Flood
02.09.2025	0:00	786.00	2908	Low Flood
03.09.2025	23:00	787.60	4481	Low Flood
04.09.2025	9:00	788.00	4905	Medium Flood
05.09.2025	0:00	787.10	4587	Low Flood
06.09.2025	0:00	786.10	3002	Low Flood

Detail of flood damages

i. The exceptionally high floods in Basantar Nullah caused breaches in the Basantar Nullah Flood Bund (right side) at two locations. Deg Nullah also breached the left-side embankment at multiple points, allowing floodwaters to enter Basantar Nullah and Jhajri Drain. The extraordinary water pressure further resulted in additional bank breaches.

ii. The exceptionally high floods in Basantar Nullah caused breaches in the Basantar Nullah Flood Bund (right side) at four locations. RD 0+350, Between RD 4+000 to 5+000, RD 6+000 to 7+000 and RD 8+000 to 9+000.

iii. The fast-flowing floodwaters severely eroded embankments and riverbanks, leading to significant land loss.

iv. Overall side slopes of the entire bund were damaged due to excessive rainfall and direct impact of high floodwater on 26th and 27th August 2025. The riverside slopes, in particular, were completely disturbed.

v. At several RDs, extensive rain cuts and gharas were observed at different points.

vi. After the flood, when the water level receded, the river altered its flow pattern, causing severe erosion along the main embankment as well as its allied structures, including spurs and studs.

vii. At certain reaches, the top width of the bund was reduced due to excessive rainfall.

viii. All ramps of the bunds were extensively damaged

xii. Embankments of Deg Nullah

Deg Nullah, a major tributary of River Ravi, originates from Indian-held Kashmir and enters Pakistan near Lehri Post, about 14 km northwest of Tehsil Zafarwal, District Narowal. Flowing south-west, it traverses Districts Narowal, Sialkot, Gujranwala and Sheikhupura, crossing major roads, canals, railways and motorway before ultimately joining River Ravi near Sharqpur, District Sheikhupura. The total floodplain area of Deg Nullah is about 63,825 acres, directly affecting nearly 3 million people, along with several distributaries and minors lying within its floodplain.

Floods in Deg Nullah have been a recurring problem for the last forty years, causing extensive damage to life, property, infrastructure and agriculture in densely populated areas. While in earlier times flooding was limited to agricultural fields and considered beneficial for fertility, rapid growth of abadies along the Nullah has made inundation highly destructive. Heavy floods also deposit silt and sand on farmlands, necessitating frequent costly levelling and further burdening agricultural activity.

Deg Nullah is essentially a seasonal (rain-fed) channel that carries very low water levels during winter but experiences sudden, heavy discharges during the monsoon season. On 24th August 2025, a freshet caused a very high flood in the Nullah. By 25th August, the water level receded to a low flood, but on 26th August 2025, it rose again and turned into an exceptionally high flood, recording a historic peak discharge of 77,742 cusecs.

Detail of flood water recorded during flood season 2025 are as under:

Gauge & Discharge data of Nullah Deg on Kingra Bridge during Flood Season 2025.

Date	Time	Deg Nullah		
		Gauge	Discharge	Category of Flood
24.08.2025	10:30	892.80	28337	Very High Flood
25.08.2025	0:00	888.00	5670	Low Flood
26.08.2025	17:00	899.00	77742	Exceptionally High Flood
27.08.2025	0:00	889.80	11773	Medium Flood
28.08.2025	0:00	887.40	4083	Normal
29.08.2025	14:00	889.00	8613	Low Flood
30.08.2025	5:45	892.00	22545	Very High Flood
31.08.2025	17:00	889.00	8613	Low Flood
01.09.2025	0:00	887.80	5141	Low Flood
02.09.2025	15:00	891.60	20515	High Flood
03.09.2025	3:45	891.20	18487	High Flood
04.09.2025	0:00	888.80	8026	Low Flood
05.09.2025	0:00	887.20	3554	Normal
06.09.2025	23:00	890.00	12563	Medium Flood

Detail of flood damages

At low to medium flood in Deg Nullah, water began to overflow from the channel bed and spread across the surrounding area. The following issues were faced at site during flood:

i. Right side Deg Nullah flood bund breached between RD 14-16 U/S Hanjli Bridge.
ii. Right side RD 2+000 to RD.3+000 U/S Chahoor bridge of Deg Nullah.
iii. Spur at RD 16+975/R D/S Chahoor bridge of Deg Nullah damaged.
iv. Solid stone stud damaged at 19+500/L RD 21+200/L & 21+700/L D/S Chahoor bridge of Deg Nullah.
v. Left bund of Deg Nullah damaged between RD 2-3 and Spur at RD 0+800/L U/S Kingra Bridge.
vi. Hockey spurs damaged at RDs 16+100/R, 16+975R, 17+320/R & spurs at RDs 40+000/R, RD 40+500/R D/S Chahoor Bridge of Deg Nullah got damaged.
vii. Spurs damaged at RD18+925/L, RD19+500/L, RD 20+000, RD 21+600, RD 21+700 & Mole Head Spur damaged at RD 21+000/L D/S Chahoor Bridge of Deg Nullah.

CHAPTER – 4

HISTORIC PEAK FLOOD DATA AND PREVIOUS FIVE YEARS FLOOD DATA OF HEADWORKS / BARRAGES AND OR OTHER CONTROL POINTS

4.1 FLOOD LIMITS

Flood limits of River Ravi and its tributaries as approved by the technical committee are tabulated as under:-

Sr, No.	Sites	Low	Medium	High	Very High	Exceptionally High
1	**River Ravi at Jassar**	50000 - 75000	75000-100000	100000-150000	150000-200000	200000 & above
2	**Ujh Nullah near Jalala**	15000 - 30000 (Gauge 851 ft)	30000 - 50000 (Gauge 853 ft)	50000 - 75000 (Gauge 855 ft)	75000 & above (Gauge 857 ft)	
3	**Bein Nullah at Shakargarh Highway Bridge**	1600-3000	3000 - 10000	10000 - 20000	20000 - 30000	30000 & above
4	**Basantar Nullah at Railway Bridge Narowal**	700 - 4700	4700 - 7500	7500 - 11600	11600 - 17800	17800 & above
5	**Deg Nullah**	10000	10000-15000	15000 - 22000	22000 - 30000	30000 & above

Gauges (ft) at Spur No-2 of Hajipur Gujran Flood Bund at Different Flood Stages

Low Flood	Medium Flood	High Flood	Very High Flood	Exceptionally High Flood
830.00	834.00	836.00	838.00	839.00

4.2 TIME LAGS OF RIVER RAVI

The time lag depends on many factors such as flood intensity, weather conditions etc. however approximate time lags for the main stations on River Ravi which were experienced in past are given as below.

Sr.#	REACH	DISTANCE (Mile/Km)	TIME LAG (Hour)
01	Madhupur to Hajipur Gujran Flood Bund	40	6
02	Hajipur Gujran Flood Bund to Bheco Chak Flood Bund	10	2 -3
03	Bheco chak Flood Bund to Jassar Bridge	12	4
04	Jassar Bridge to Ravi Syphon	38	10

05	Ravi Syphon to Shahdara Bridge	33	11
06	Shahdara Bridge to Balloki Head Works	64	19
07	Balloki Head works to Sidhnai Head Works	240	75

As per decision of Technical Committee dated 22/07/2000

4.3 HIGHEST FLOODS

Highest Flood 6,50,000 Cs 4,85,000 Cs was recorded in River Ravi at Kot Naina and Jassar respectively in the year 1988.

4.4 FLOOD GAUGING SITES

Flood gauges are installed at different point detail are as under:-

1. Deg Nullah at Kingra Bridge
2. Bein Nullah at Shakargarh to Ikhlas road bridge
3. River Ravi at Spur No.3 of Hajipur Gujran Flood Bund RD.23+450
4. River Ravi at Jassar.
5. Ujh Nullah at RD.12+200.
6. Basanter Nullah on Narowal to Shakargarh bridge.

4.5 PEAK DISCHARGE

4.5.1 PEAK DISCHARGE (RIVER RAVI AT JASSAR)

Sr.#	Date	Gauge	Discharge in Cusecs.
1	31/7/1989	787.20	104818
2	09/10/1990	783.40	58709
3	03/06/1991	783.30	57758
4	09/11/1992	789.60	148543
5	07/11/1993	789.60	136140
6	21/07/1994	791.70	173090
7	09/05/1995	790.70	220800
8	24/08/1996	788.80	151080
9	28/08/1997	789.00	157600
10	24/09/1998	783.80	35820
11	20/08/1999	782.70	23620
12	28/07/2000	783.70	34480
13	15/08/2001	784.50	48100
14	14/08/2002	785.80	69480
15	08/04/2003	784.60	45135
16	2004	782.90	31900
17	09/09/2005	783.00	32669
18	09/04/2006	783.50	36435
19	21/08/2007	781.50	22880
20	17/08/2008	783.50	36435

21	17/08/2009	781.00	9600
22	21/08/2010	785.00	21000
23	17/09/2011	783.50	34360
24	26/08/2012	783.30	30490
25	08/03/2013	787.00	67700
26	09/07/2014	787.60	74600
27	24/09/2015	783.80	62652
28	27/07/2016	783.50	36435
29	08/10/2017	783.90	47494
30	25/09/2018	786.20	66641
31	18/08/2019	785.00	51000
32	26/08/2020	783.00	33000
33	27/07/2021	781.50	20200
34	16/08/2022	786.00	63720
35	20/07/2023	786.00	71010
36	16/08/2024	784.20	40440
37	27/08/2025	779.30	240500

4.5.2 PEAK DISCHARGE (DEG NULLAH AT KINGRA BRIDGE)

1	23/09/2018	896.80	19170
2	16/08/2019	785.10	2253
3	26/08/2020	894.00	3090
4	12/07/2021	895.00	29783
5	15/08/2022	895.00	40750
6	19/07/2023	894.20	31556
7	15/08/2024	890.60	10983
8	26/08/2025	899.00	77742

4.5.3 PEAK DISCHARGE (NULLAH BEIN)

1	13/08/2018	882.00	7007
2	14/08/2019	880.10	3946
3	26/08/2020	880.50	4580
4	27/07/2021	880.20	4104
5	31/08/2022	881.20	5722
6	10/08/2023	881.00	5373
7	15/08/2024	884.00	14025
8	26/08/2025	888.80	47874

4.5.4 PEAK DISCHARGE (NULLAH UJH)

1	07/08/2018	859.00	15000
2	17/08/2019	863.50	55000
3	26/08/2020	864.00	60000
4	20/07/2021	864.00	60000
5	15/08/2022	865.00	65000

6	09/07/2023	865.00	65000
7	11/08/2024	861.00	35000
8	26/08/2025	864.70	63500

4.5.5 PEAK DISCHARGE (BASANTER NULLAH)

1	24/09/2018	788.30	5479
2	16/08/2019	785.10	2253
3	30/08/2020	787.20	4057
4	10.09.2021	786.00	2908
5	26/07/2022	787.90	5014
6	12/08/2023	786.00	2908
7	16/08/2024	788.00	4905
8	27.08.2025	792.10	11766

CHAPTER – 5

FLOOD FIGHTING STRATEGY

RIVER RAVI

All precautionary measures are adopted before flood season to face any alarming situation at Jassar Bridge on River Ravi, even then arrangements are necessary to avoid heavy damages and flood fighting strategy is adopted in such a way that floods may safely be passed.

In low flood, river water remains within the deep river creek & does not cause any problem on flood bunds & spurs. Watching establishment employed for this purpose remains busy in removing jungle, filling rain cuts & porcupine holes if any.

When water increases beyond 75000 Cs, it will start spreading on adjoining area & also touches the toe of bunds. After the flood water touches the toe of bunds.It becomes necessary to be vigilant & watching of bunds will be started to check any leakage from bunds. Sub Engineers will shift their camps to sites as per duty roaster. Hourly gauges & discharges will be conveyed civil administration & flood warning centers to inform public accordingly.

Machinery will be kept ready at Hajipur Gujran, Jalala, Bheco Chak, Rayya, Chandian, Deg Nullah etc comps office sites deatail attached at page No.245-248 for making cuts closing breaches as & when required according to the circumstances.

NULLAH UJH, JALALA FLOOD BUND

Ujh Nullah experiences flood each year since last five years, hence

a. Permanent camp at RD.13+200 of Jalala Bund) as well as watching with W/C establishment shall be maintained during flood season. Hourly gauges & discharges will be conveyed to civil administration & flood warning centers to inform public accordingly

b. Machinery deployment plan attached at page No.209-211.

NULLAH DEG

Similarly, Deg Nullah experiences high flood each year for the last five years, hence

a. 08 Permanent camps detail attached at page No.62-64, as well as watching with W/C establishment shall be maintained during flood season. Sub Engineers will shift their camps at sites. Hourly gauges & discharges will be conveyed to civil administration & flood warning centers to inform public accordingly

b. Machinery deployment plan attached at page No.245-248.

Gauges of different sites especially at Kot Naina spelling and Jassar Bridge for River Ravi, RD 13 of Jalala Bund for Ujh Nullah, Kingra Bridge for Deg Nullah and Narowal to Shakargarh road for Basanter Nullah will be noted regularly & recorded. Executive Engineer will inform all agencies

especially civil administration as well as army authorities about flood situation. In case of very high flood or exceptionally high flood, meeting will be held in field office with Army & Civil Administration to face the situation.

CHAPTER – 6

1. FLOOD DAMAGES RESTORATION WORKS

During the Flood Season 2025, an Exceptionally High Flood of 240,500 cusecs and 250000 Cucsecs was recorded in the Ravi River at Jassar and River Ravi at Kot Nainan on 27.08.2025 respectively.

On 26.08.2025, the following exceptionally high flood discharges were received in the following nullahs:

- Ujh Nullah: 63,500 cusecs
- Deg Nullah: 77,742 cusecs
- Bein Nullah: 47,874 cusecs
- Basantar Nullah:11766 cusecs

Due to these exceptionally high flood discharges in the main river and its tributary nullahs, several river and nullah bunds sustained damage during the Flood Season 2025.

The detail of flood restoration works are as under: -

Sr. No.	Name of restoration work	Status / remarks
1	Jalala Flood Bund from RD 0 - 26+700	Tender approval under process.
2	Chakra Flood bund and allied structures	1st time tender was called on 24.01.2026, but no bid was received. 2nd time has been received and open on 04.03.2026. Its approval is under process.
3	Restoration of flood bund and flood protection infrastructures of Deg Nullah	Work is in progress, will be completed before 30.06.2026.
4	Damaged of banks of Jhajri Drain Drain in different reaches from RD 0 - 45	Work is in progress, will be completed before 30.06.2026.
5	Damaged banks of Tatle Drain on various reaches from RD 0 - 57	Work is in progress, will be completed before 30.06.2026.
6	Damaged banks of Fazalpur Drain in different reaches from RD 0 - 17	Work is in progress, will be completed before 30.06.2026.

2. Procurement Reserve Stock of Stone

Sr. No.	Name of Work	Status / remarks
1	Procurement Reserve Stock of Stone to meet flood emergency in Flood Bund Division, Narowal.	Towice time tender was called, but no bit received. 3rd time tender has been re-called and will be opend on 26.03.2026.

NOTE:

M&R works for flood protection bunds are being carried out and will be completed during the year 2025-26.

3. REMODELING OF FLOOD BUNDS

During the Flood Season 2025, an Exceptionally High Flood of 240,500 cusecs was recorded at Jassar and 250,000 cusecs at Kot Nainan on the Ravi River on 27.08.2025, respectively.

Due to the exceptionally high flood discharge, it was observed that the available freeboard of the main river bund along the Ravi River was less than the criteria prescribed by the Federal Flood Commission (FFC). This condition posed a potential risk to the structural safety of the flood protection embankments.

In this regard, the following remodeling works has been proposed. Details are as under:

Sr, No.	Name of remodeling works	Status / Remarks
1	Protection and strengthening of Hajipur Gujran flood bund.	Pending in NESPAK
2	Raising of Rayya and Mehdi Dogar flood bund and its allied structures.	Pre- PWD held on 12.03.2026
3	Raising of Chandian flood bund and its allied structures.	Tender will be opened on 07.04.2026.
4	Raising of Daud Flood Bund.	Tender will be opened on 07.04.2026.
5	Raising Becho Flood Bund and its allied structures.	PC-I was approved on 04-03-2026 for an amount of Rs 393.141 Millions but due to rise in fuel prices amended PC-I for an amount 523.928 Million has been submitted to zonal office on 18-03-2026.

NOTE:

The remodeling of the above-mentioned works will be completed as per the prescribed time schedule.

CHAPTER – 7

FLOOD FIGHTING WATCHING ARRANGEMENTS

7.1 PRE-FLOOD ARRANGEMENTS

The watching establishment on flood protection bunds is required to be employed as per scale & as per Govt. policy. Necessary material will be placed at different sites in order to meet with extra ordinary, worst situation with the site situation. Hence the flood fighting material will be kept ready on head quarter for this purpose.

FLOOD WARNING SYSTEM

The flood warnings received from Gauge at Haji Pur Gujran Bund Flood groups of whatsapp are received on daily / hourly basis during flood season. The flood condition of the dams and Headworks on Ravi River in India is also received through Flood Warning Center Lahore Indes Water Commission. On receipt of abnormal flood the Deputy Commissioner Narowal and Army Engineer Battalion will be informed by the Executive Engineer / SDO to cope with the flood situation. Close liaison will be kept by the committee members during the flood emergency. The Chief Engineer Irrigation Lahore Zone will also be kept informed about the flood situation constantly.

The flood warning gauges will be received from the following centers:

- Flood warning center Lahore
- Police wireless at Kot Naina
- Flood Camp at HPG Bund
- Narowal

Police wireless control is responsible to collect these gauges 3 hourly in case of high flood and above and 6 hourly in case of low flood to medium flood. These gauges will be conveyed to flood warning center and will be supplied promptly to other concerned authorities.

During rainy / monsoon season, the establishment of Flood Bund Division Narowal will remain very vigilant throughout the monsoon season. Staff of the Division will be set on alert during day and night from 15th June to 15th October. The flood / watching camps will be established at vulnerable points.

7.2 WATCHING ESTABLISHMENT

The normal strength of patrolling for the Flood Protection Bunds and allied spurs 16th April to 15th June, which will be enhanced during the flood season from 16th June to 15th October.

Detail are as under:-

Watching Establishment Details											
Sr. No.	Structure Name	Length (Miles)	Flood Limits								Mate
			Normal Flood Season		Low Flood		Medium/High Flood		Very High/ Exp. High Flood		
			Beldar	Chokidar	Beldar	Chokidar	Beldar	Chokidar	Beldar	Chokidar	
			1 Person/ 2 mile (1 Shift)		1 Person/ mile (1 Shift)		2 Person/ mile (2 Shift)		5 Person/ mile (3 Shift)		1 Mate is required on 12 No. Beldar
1	Jalala Section	5.34	3	1	5	1	4	1	80	1	
2	Hajipur Gujran Section	7.54	4	1	8	1	8	1	113	2	
3	Bheco Chak Sectio	6.1	3	1	6	1	12	1	92	1	
4	Bein Section	4.034	2	1	4	1	16	1	73	1	
5	Jassar Section	11.72	6	1	12	1	20	2	176	2	
6	Chandian Section	11.78	6	2	12	1	24	2	177	2	
7	Rayya Section	18.8	9	6	19	1	28	3	282	4	
8	L/S Qila Ahmed Abad bridge TO U/S Deg Nullah	17.8	9	3	18	1	32	3	267	4	
9	R/S Qila Ahmed Abad bridge TO U/S Deg Nullah	18.82	9	5	19	1	36	3	282	4	
10	Tatle Drain	11.4	1	-	1	-	1	-	1	-	
	Total:-	**113.33**	**52**	**21**	**104**	**9**	**181**	**17**	**1543**	**21**	

Note:- 1 No. Mate for every gang of 12 Beldar at all flood limits.

- Beldar should be provided with hand tools (1 Kassie, 1Axe and 1 Rechargeable Torch for night shift in case of flood above low flood limit).
- The activities of staff during normal flood season should be included but not limit to:
  - Removing Jungle and bushes from slope and toe of embankment.
  - Filling of rain cut / Gharas.
  - Dressing of slopes.
  - Filling porcupine and rat holes.
  - Keeping the track motor able.

- The Executive Engineer, Flood Bund Division, Narowal may emply work charge establishment as per site situation after obtaining approval from Superintending Engineer, Link Circle Lahore.
- Concerned Sub Divisional, Officer will be emply watching establishment as per strength mentioned above subject to approval from competent authority.
- In case very high flood, the strength of establishment will be increased with express permission of Executive Engineer.

7.3 ESTABLISHMENT CAMPS DETAILES

Established Camps Details							
Sr. No.	Structure Name	Length (Miles)	Vulnerable sites		No. of Camps Established Except Vulnerable Points		
					Normal Flood season/Low Flood	Medium/High Flood	Very High/Exp. High Flood
			Reach	No. of Camps	15 Miles	7 Miles	5 Miles
1	Jalala Section	5.34	13+000 to 18+000	1	-	-	-
2	Hajipur Gujran Section	7.54	1. RD.6+000 to RD.7+000, 10+000 to RD.11+500 2. RD.14+000 to RD.19+000, 23+000 to RD.26+000.	1	-	-	1
3	Bheco Chak Section	6.10	25+000 to 29+000 and 3+000 to 4+000	1	-	-	1
4	Bein Section Tie Flood Bund	4.034	RD.2+000 to RD.4+000	1	-	-	-
5	Bein Section Chakra Flood Bund		-	1	-	-	-
6	Bein Section Village Chak Nahra		-	-	-	-	1
7	Bein Section Village Fatahpur Gujran		-	-	-	-	1
8	Bein Section Village Chattri		-	-	-	-	1
9	Jassar Section J-Head Spur	11.72	3+000 to 4+000	1	-	-	-
10	Jassar Section Basanter Nullah Bund.		4+000 to 5+000	-	-	-	1
11	Chandian Section Chandian Flood Bund	11.78	RD.0+000 to 7+350	1	-	-	-
12	Chandian Section Daud Flood Bund		RD.8+000 to 11+000 and 15+000 to 17+000	-	-	-	1
	Chandian Section Mehdi Dogar Bund		RD.5+000 to RD.7+000.	1	-	-	-
13	Rayya Flood Section Rayya Flood Bund	18.80	1. RD.23+000 to 30+000, 2. RD.52+000 to 53+000, 3. RD63+000 to 67+000, 4. RD.69+000 to 67+000, 5. RD.80+000 to 85+000, 6. RD.87+000 to 94+000,	6	-	-	-

14	Deg Section Deg Nullah Bund (Left & Right)	36.62	1. near Lehri 2. U/S Kingra Bridge RD.0+000 to 4+000/R 3. U/S Hanjli Bridge RD.13+000 to 16+000/R 4. U/S Chahoor Bridge RD.2+000 to 3+000/R 5. D/S Chahoor Bridge RD.17+000 to 25+000/R 6. D/S Chahoor Bridge RD.18+000 to 23+000/L 7. U/S Qila Ahmad Abad Bridge RD.41+000 to 45+000/R 8. U/S Qila Ahmad Abad Bridge RD.46+000 to 47+000/L	8	-	-	-
Total				**22**			7

7.4 ARRANGEMENT OF SENSITIVE SITES

i. The normal strength for watching at sensitive sites along flood protection and River training works will be doubled during high flood / exceptionally high flood.

ii. The establishment can be increased after consultation with Executive Engineer, Flood Bund Division Narowal accordance with site requirements.

The same establishment will be responsible for maintenance of flood bunds and Spurs. It will arrange Minor repairs to bank top, side slopes, removal of Sarkanda etc. as shanks and on pitched part of spurs. Establishment will also be responsible for filling ghares /porcupine holes / rain cuts etc. as occurred due to rains during the monsoon season.

POSITION OF RESERVE STOCK ON RIVER TRAINING COMPONENTS

Quantity in Lac Cft

Sr, No.	Location	Reserve Stone Required as per approved Limit Qty in Lac)	Available at site (Qty in Lac)	Balance required w.r.t total approved	Remarks
1	Bheco Chak Flood Protection Bund.	3.400	0.00	3.400	Recouping of Reserve Stock of Stone will be Pre-coured before floos season 2026.
2	Hajipur Gujran Flood Protection Bund.	6.950	0.623	6.327	
3	Rayya Flood Protection Bund.	2.000	1.066	0.934	
4	Chandian Mole Head Spur.	3.220	0.940	2.280	
5	Jassar J - Head Spur.	1.000	0.260	0.740	
6	Mehdi Dogar T - Cum Hockey Spur.	0.30	0.27	0.03	
7	Guide Spur at Chak Narrah.	0.60	0.00	0.60	
8	Guide Spur at Village Ferozpur.	0.80	0.00	0.80	

9	Jalala Flood Protection Bund.	2.700	0.000	2.700	
10	Daud Flood Bund and its allied structures.	2.000	0.000	2.000	
11	Chakra Flood Bund	1.500	0.000	1.500	
12	Deg Nullah left and right side Bund and its allied structure.	3.700	0.000	3.700	
	Total:-	**28.170**	**3.159**	**25.011**	

7.5 WATCHING MATERIAL

Minimum requirement of Flood Fighting Material for permanent camps (15 Miles) detaile as under:-

Sr No.	Item Name	Unit	Quantity
1	Shouldaris/ Tent	No.	1
2	Chairs	No.	6
3	Table	No.	1
4	Generator (2- 3 KVA)	No.	1
5	Pedestal Fans	No.	1
6	Charpois	No.	2
7	Symbolic Jackets	No.	50
8	Polyethene Sheet	Kg	100
9	Bamboos (4" dia and 10 ft long)	No.	100
10	Water Coller	No.	1
11	Portable Umbrella	No.	2
12	Life Jackets	No.	5
13	Utensils (10 Person serving)	No.	1
14	Jude / Plastic bags	No.	1000
15	Walke Talkie set	Sets	2
16	Raincats	No.	10
17	LED flood light	No.	10
18	Extension Cable (10 ft)	No.	2
19	Rechargeable torches	No.	20
20	Kassi	No.	20
21	Axes	No.	20
22	G.I Buckets	No.	5
23	7/44 cable	Feet	500
24	Sutli	Kg	2
25	Sewing Needles	No.	10
26	Emergency Madical Kit	No.	1
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	No.	100

Minimum requirement of Flood Fighting Material for temporary camps (7 or 5 Mile during medium to exceptionly high flood to be out sourced) detaile as under:-

Sr No.	Item Name	Unit	Quantity
1	Shouldaris/ Tent	No.	1
2	Chairs	No.	6
3	Table	No.	1
4	Generator (2- 3 KVA)	No.	1

5	Pedestal Fans	No.	1
6	Charpois	No.	2
7	Symbolic Jackets	No.	50
8	Water Coller	No.	1
9	Portable Umbrella	No.	2
10	Utensils (10 Person serving)	No.	1
11	Jude / Plastic bags	No.	1000
12	Walke Talkie set	Sets	2
13	Raincats	No.	10
14	LED flood light	No.	10
15	Extension Cable (10 ft)	No.	2
16	Rechargeable torches	No.	20
17	Kassi	No.	20
18	Axes	No.	20
19	G.I Buckets	No.	5
20	7/44 cable	Feet	500
21	Sutli	Kg	2
22	Sewing Needles	No.	10

Note:- Quantity of flood fighting material will be procured before the start of flood season 2026, if approval are granted and funds are avaialbe as per sanctioned estimate than material is stored at available/ safe custody at Sub Divisional arrangements.

7.6 ARRANGEMENT OF SOUNDING AND PROBING

In case of any situation on flood protection and River training works, sounding and probing arrangement will be made for which proper equipment are already available in this Division.

7.7 LIGHTING ARRANGEMENT

To avoid all the chances of electricity, break down, additional lighting arrangements parallel to existing system i.e WAPDA supply will be arranged. For generation power to be very reliable generating set, with 2 No stand by units are available in emergent situation.

7.8 RATION ARRANGEMENT

The area in the jurisdiction of this division falls in the District, i – Narowal, ii- Sialkot, iii- Sheikhupura. In case of high flood in River Ravi / tributaries, a separate plan will be prepared, the concerned PDMA authorities, District Administration and relevant Food department will mobilize their sources for supplying food for Human and cattle population.

7.9 POL ARRANGEMENT FOR VEHICLE

P.O.L facilities / arrangement will be made by the Irrigation Department through Civil Administration.

7.10 TRANSPORTATION

Transportation facilities will be provided by the Civil Authorities

7.11 LAW AND ORDER

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

7.12 MEDICAL ARRANGEMENT FOR LABOUR

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

7.13 LIAISON WITH OTHER DEPARTMENT

The Executive Engineer, Flood Bund Division, Narowal will perform following functions with in his administrative jurisdiction for the better and effective flood management.

- Periodic review of structural integrity of flood infrastructure over river Ravi in order to ensure that no breach may occurs in the event of heavy discharge of water. The Executive Engineer will share his observation with his supervisory officer as well as District Administration, well before on set of Flood season in order to take necessary action accordingly.
- Identification of vulnerable points on river training works and flood protection works where breach may occur and specification of locations for positioning of requisite machinery / material near the vulnerable points.
- Maintenance and repair to flood protection and river training works infrastructures.
- Joint inspection of Flood protection infrastructure with District Administration.
- Collection and sharing of information regarding discharge in Ravi, with the Military Authorities as well as District Administration on daily basis.
- Collection of information on discharge, from monitoring check points on River Ravi as well as control center at Shakargarh.
- Improvement of existing instruction / gauges used for determination of water discharge (Cusecs) in Ravi.
- Development of more effective early warning system.
- Liaison with flood forecasting center Lahore for collection of flood related information.

- ❖ Briefing of authorities concerned on Flood protection arrangements and development of an integrated departmental strategy, to be able to combat any situation during Floods.
- ❖ Stock piling of essential articles to combat any flood related contingency and arrangements of sufficient funds beforehand, for such purposes.
- ❖ Arrangements of labour along with machinery / equipment for proper maintenance of the vulnerable pints on flood protections arrangements.
- ❖ Identification of points on road or otherwise, where breaches / cuts are required to be made to further facilitate discharge of water in order to avert larger catastrophe.
- ❖ Ascertainment of extent of damages caused to the protection bunds and other installation after flood water subsides.
- ❖ Initiation of criminal proceeding against elements involved in will full breach in flood protection arrangements on any canal, with consent of competent authority.
- ❖ Assistance and coordination with other departments for providing early relief to the public in emergency situation.

7.14 ROLE OF ARMY

During flood emergency, Deputy Commissioner, in consultation with Executive Engineer, Flood Bund Division Narowal will inform 30-Corp Engineers Gujranwala about flood situation. Upon intimation, concerned army authorities alongwith District Administration will perform activities to manage flood emergency during Flood 2026.

7.15 DUTIES OF TELEPHONE ATTENDANT

The duty of telephone attendant is to apprise the Department / Civil Administration about the flood situation during the rain / flood season i.e. 15.06.2026 to 15.10.2026.

7.16 WIRELESS ARRANGEMENTS

Wireless system / arrangement will be made for the vehicles under use of Officers of Flood Bund Division Narowal, of Link Circle Lahore during the period of 15 June 2026 to 15 October 2026.

CHAPTER – 8

DETAIL OF ENCROACHMENT

There is no encroachment on flood protection works and river training works in the jurisdiction of Flood Bund Division Narowal causing hindrance to the movement of flood fighting machinery on or along the flood protection structures during any flood emergency.

Type of Encroachment	Total No of Encroachments	Encroachments Removed	Balance To be Removed	Action to be Taken
Ordinary	NIL			
Critical	NIL			

Sub Divisional Officer,
Sialkot Drainage Sub Division,
Narowal

Sub Divisional Officer,
Flood Bund Sub Division No.1,
Shakargarh

Executive Engineer,
Flood Bund Division,
Narowal.

CHAPTER – 9

DUTY ROSTER / FLOOD FIGHTING PROGRAMME

Duty establishment required for watching arrangements in 3 shifts round the clock will be under the control of in-charge Sub Engineer of concerned Section. Sub Divisional Officers, Flood Bund Sub Division No.1 Shakargarh and Sialkot Drainage Sub Division Narowal will be overall in-charge and will exercise surprise check in their respective jurisdiction.

A. Flood Bund Sub Division No.1 Shakargarh.

Flood Situation.	Officer/Officials on duty	Head quarter / Camp	No of Shifts / Time	Temporary/work charge Establishment per shift each section
Normal	Sub Divisional office		1 Shift	• 1 Beldar/2 Mile/shift • 1 No. Mate for every gang of 12 Beldar at all flood season ranges. • 1 No. Chowkidar 24/7 all flood season on each camp station.
	Jalala Section	Spur at RD.13+200 of Jalala Bund		
	Hajipur Gujran Section	Spur RD.23+454 of Hajipur Gujran Bund		
	Bheco Chak Section	Bheco Chak Bund at 26+000		
	Bein Section	i.Chakra Flood Bund at RD.0+735 ii. Spur No.2 of Tie Flood Bund at RD.3+700		
Low Flood	Sub Divisional office		1 Shift	• 1 Beldar /Mile /shift • 1 No. Mate for every gang of 12 Beldar at all flood season ranges. • 1 No. Chowkidar 24/7 all flood season on each camp station.
	Jalala Section	Spur at RD.13+200 of Jalala Bund		
	Hajipur Gujran Section	Spur RD.23+454 of Hajipur Gujran Bund		
	Bheco Chak Section	Bheco Chak Bund at 26+000		
	Bein Section	i.Chakra Flood Bund at RD.0+735 ii. Spur No.2 of Tie Flood Bund at RD.3+700		
Medium – High Flood	Sub Divisional office		2 Shift	• 2 Beldar/Mile/shift • 1 No. Mate for every gang of 12 Beldar at all flood season ranges. • 1 No. Chowkidar 24/7 all flood
	Jalala Section	Spur at RD.13+200 of Jalala Bund		
	Hajipur Gujran Section	Spur RD.23+454 of Hajipur Gujran Bund		
	Bheco Chak	Bheco Chak Bund		

	Section	at 26+000		season on each camp station.
	Bein Section	i.Chakra Flood Bund at RD.0+735 ii. Spur No.2 of Tie Flood Bund at RD.3+700		
Very High – Exceptionally	Sub Divisional office		3 Shift	• 5 Beldar/Mile/shift • 1 No. Mate for every gang of 12 Beldar at all flood season ranges. • 1 No. Chowkidar 24/7 all flood season on each camp station.
	Jalala Section	Spur at RD.13+200 of Jalala Bund		
	Hajipur Gujran Section	i. Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund		
	Bheco Chak Section	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000		
	Bein Section	• Chakra Flood Bund at RD.0+735 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri • Spur No.2 of Tie Flood Bund at RD.3+700		

B. Sialkot Drainage Sub Division Narowal.

Flood Situation.	Officer/Officials on duty	Head quarter / Camp	No of Shifts / Time	Temporary/work charge Establishment per shift each section
Normal	Sub Divisional office		1 Shift	• 1 Beldar/2 Mile/shift • 1 No. Mate for every gang of 12 Beldar at all flood season ranges. • 1 No. Chowkidar 24/7 all flood season on each camp station.
	Sub Engineer Jassar Section	At J-Spur of Jassr Bund		
	Sub Engineer Chandian Section	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.		
	Sub Engineer Rayya	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey		

	Section	3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000		
	Sub Engineer Deg Section	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.		
Low Flood	Sub Divisional office		1 Shift	• 1 Beldar /Mile /shift • 1 No. Mate for every gang of 12 Beldar at all flood season ranges. • 1 No. Chowkidar 24/7 all flood season on each camp station.
	Sub Engineer Jassar Section	At J-Spur of Jassr Bund		
	Sub Engineer Chandian Section	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.		
	Sub Engineer Rayya Section	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000		
	Sub Engineer Deg Section	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.		

Medium – High Flood	Sub Divisional office		2 Shift	• 2 Beldar/Mile/shift • 1 No. Mate for every gang of 12 Beldar at all flood season ranges. • 1 No. Chowkidar 24/7 all flood season on each camp station.
	Sub Engineer Jassar Section	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.		
	Sub Engineer Chandian Section	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000		
	Sub Engineer Rayya Section	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000		
	Sub Engineer Deg Section	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.		
Very High – Exceptionally	Sub Divisional office		3 Shift	• 5 Beldar/Mile/shift • 1 No. Mate for every gang of 12 Beldar at all flood season ranges. • 1 No. Chowkidar 24/7 all flood season on each camp station.
	Sub Engineer Jassar Section	.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.		
	Sub Engineer Chandian Section	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000		
	Sub Engineer Rayya Section	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000		

		4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000		
	Sub Engineer Deg Section	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.		

Note:-

***** Executive Engineer, Flood Bund Division, Narowal is the overall In-charge of the whole operation during very high and exceptionally high flood.

* All the Sub Engineers will perform their duties assigned above along with their establishment equipped with necessary T & P articles.

* However, the duties of adjoining Sub Engineers with their establishment would be called any time any where and at any point as desired and required by the SDO's In-charge under intimation to Executive Engineer Flood Bund Division Narowal the In-charge of whole operation.

CHAPTER – 10
EMERGENCY TELEPHONE NOs

Sr. #	Name of Officers	Office	Residence
1	Secretary Irrigation Department Lahore	042-99212117 042-99212118	042-99200954
2	Deputy Secretary Operation Irrigation Lahore.	042-99112127	042-9212129
3	Chief Monitoring (PMIU) Lahore.	042-99213595 042-99213597	Toll Free No. 0800-11333
4	Chief Engineer Drainage & Flood Lahore	042-99230602	
5	Chief Engineer Irrigation Lahore.	042-99212086	0300-4017310
6	Superintending Engineer Link Circle, Lahore.	042-99250310	0332-5543633
7	Director Flood Lahore	042-99231614	
8	Deputy Director Flood Lahore	042-99230282	
9	Flood Warning Center Lahore.	042-99205157	042-99205158
10	Flood Control Center Narowal.	0542-920090	
11	Executive Engineer Flood Bund Division, Narowal (Ali Raza)	0542-920090	0301-1302162
12	Executive Engineer Operation Lahore Zone, (FLOOD EMERGENCY OFFICER)	042-99212089	
13	Deputy Commissioner, Narowal	0542-9201210-20	
14	Additional District Collector (Revenue), Narowal	0542-920013-15	
15	Assistant Commissioner, Narowal.	0542-920022	
16	Assistant Commissioner, Shakargarh	0542-450474	
17	Executive Engineer Lahore Drainage Division	042-99250399	
18	Executive Engineer Rachna Drainage Division Sheikhupura.	056-9200250	
19	Sub Divisional Officer Flood Bund Sub Division No.1 Shakargarh.		0309-6898341
20	Sub Divisional Officer Sialkot Drainage Sub Division. Narowal.(Saleem Ashraf)		0333-4974372
21	Head Signaler Telegraph Office Lahore.	0304-7056225	0302-4990827
22	Commanding Officer, 23 Engineers, Battalion, Sialkot	052-5715184	
23	Commanding Officer, HQ Engineers, 23 Corps, Gujranwala.	055-2692353	
24	District Police Officer, Narowal	0542-412800	0542-412200

DISTRICTS ADMINISTRATION

Sr.#	Address	Office	Residence
1	Commissioner Gujranwala Division	0542-9201210-20	
2	Deputy Commissioner Narowal	0542-9201210-20	
3	Deputy Commissioner Sialkot	052-9250451-52	
4	Assistant Commissioner Narowal	0542-920022	
5	Assistant Commissioner Shakargarh	0542-450474	
6	Assistant Commissioner Pasrur	052-9250451-52	
7	District Police Officer Narowal.	0542-412800	
8	AC ZAfarwal	0307-9116082	
9	District Police Officer Sialkot.	052-9250321-2	
10	Sub Divisional Police Officer Narowal	0542-920091	
11	Sub Divisional Police Officer Shakargarh	0542-450800	
12	SDPO Pasrur	052-6442626	
13	Police Station Sadar Pasrur	052-6442323	
14	Police Station Kot Nainan	0542-625946	
15	D.C Office Narowal	0542-920010	
16	Rescue 1122 Narowal	1122	

CHAPTER – 11

STANDARD OPERATING PROCEDURE (SOP) FOR BREACHING SECTION

11.1 HISTORY OF THE BREACHING SECTION

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

There is no breaching Section under control of Flood Bund Division Narowal

DESIGN OF BREACHING SECTION

Not Applicable

QUANTITY AND VARIETY OF THE EXPLOSIVE REQUIRED FOR DETONATION

Not Applicable

11.3 ARRANGEMENTS OF EXPLOSIVE AND SECURITY OF EXPLOSIVE STORES

Not Applicable

11.4 LIST OF THE SECURITY STAFF ALONG WITH DETAIL OF THEIR TRAINING etc.

Not Applicable

11.5 DETAIL OF MECHANICAL MEANS AS STANDBY ARRANGEMENTS IN CASE OF DETONATION FAILURE

Not Applicable

11.6 DUTY ROSTER IN CASE OF CRITICAL SITUATION

Not Applicable

11.7 BREACHING COMMITTEE WITH THEIR ACTION PLAN

Not Applicable

11.8 LIST OF THE VILLAGE LIKELY TO BE INUNDATED IN CASE OF BREACH

Not Applicable

11.9 ANNOUNCEMENT AND DETAIL OF EVACUATION ARRANGEMENTS

Not Applicable

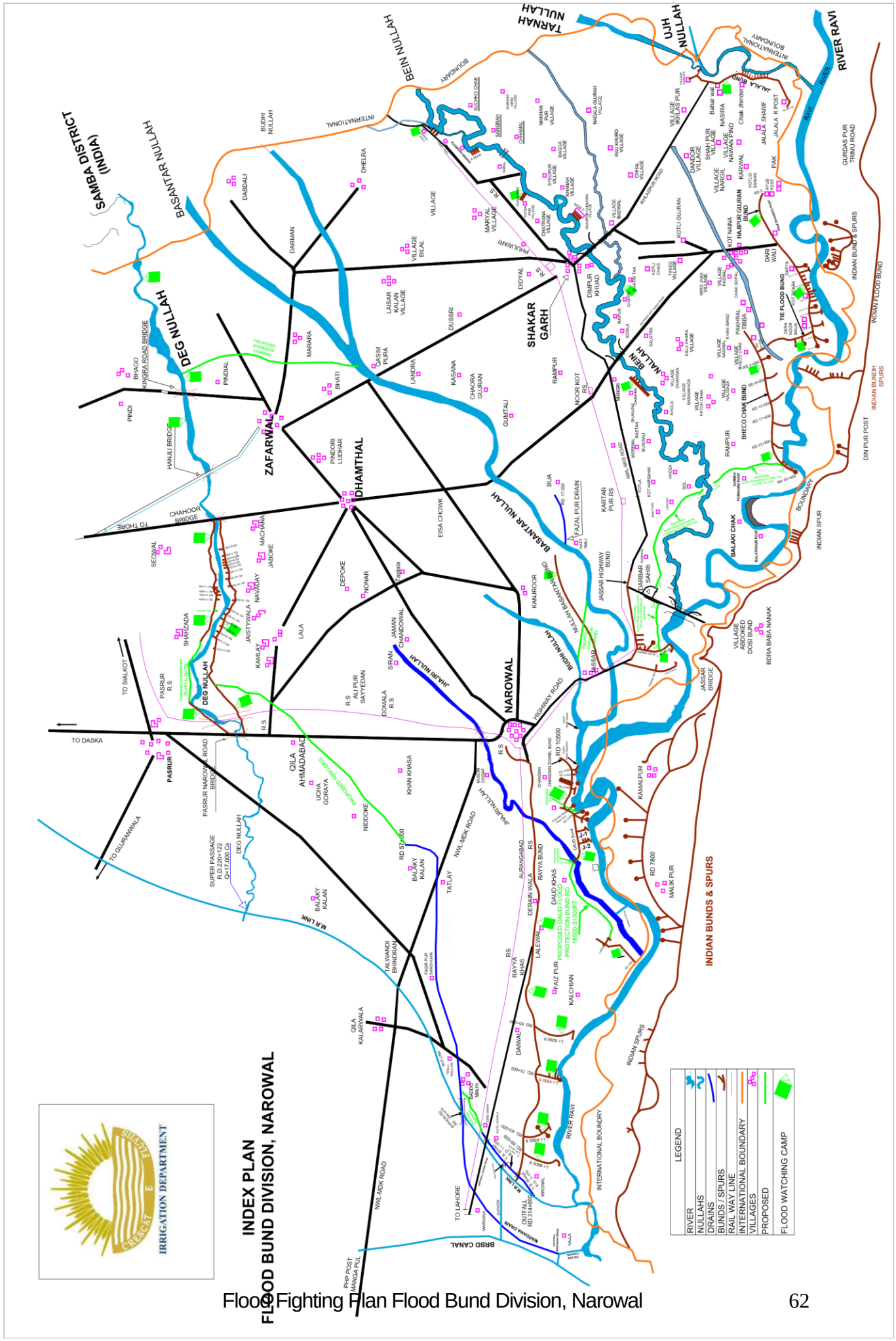
11.10 DETAILS OF COORDINATION WITH CIVIL / PAK ARMY AUTHORITIES

Not Available

11.11 PARALLEL COMMUNICATION ARRANGEMENTS

The communication arrangements will be supplemented through police wireless network installation at Police station Kot Nainan linked up with flood warning center, Lahore. The communication will help to receive the latest flood situation of all the respective sites. The information will be communicated to the District formation and Army authorities.

11.12 INDEX PLAN



CHAPTER - 12

VULNERABLE SITES ON FLOOD BUNDS/STRUCTURE

12.1 APPREHENDED BREACHES IN FLOOD BUNDS / STRUCTURES.

Details of Vulnerable Sites are as under:-

1. Jalala Flood Bund between RD.13+000 to 18+000
2. Hajipur Gujran Bund from RD.6+000 to RD.7+000 and 10+000 to RD.11+500.
3. Hajipur Gujran Bund from RD.14+000 to RD.19+000 and 23+000 to RD.26+000.
4. Bheco Chak Flood Bund from RD.25+000 to 29+000.
5. Bheco Chak Flood Bund from RD.3+000 to 4+000.
6. Chakra Flood Bund at RD.0+735.
7. Village Chak Nahra
8. Village Fatahpur Gujran
9. Village Chattri
10. J-Head Spur from RD.3+000 to 4+000 of Jassar Bund.
11. Basanter Nullah Bund from RD.4+000 to 5+000.
12. Chandian Flood Bund from RD.0+000 to 7+350.
13. Daud Flood Bund from RD.8+000 to 11+000 and 15+000 to 17+000.
14. Rayya Flood Bund from RD.24+000 to 30+000.
15. Rayya Flood Bund from RD.52+000 to 53+000.
16. Rayya Flood Bund from RD.63+000 to 67+000.
17. Rayya Flood Bund from RD.69+000 to 77+000.
18. Rayya Flood Bund from RD.80+000 to 85+000.
19. Rayya Flood Bund from RD.87 +000 to 94+000.
20. Deg Nullah Bund near Lehri.
21. Deg Nullah Bund U/S Kingra Bridge RD.0+000 to 4+000/R.
22. Deg Nullah Bund U/S Hanjli Bridge RD.13+000 to 16+000/R.
23. Deg Nullah Bund U/S Chahoor Bridge RD.2+000 to 3+000/R.
24. Deg Nullah Bund D/S Chahoor Bridge RD.17+000 to 25+000/R.
25. Deg Nullah Bund D/S Chahoor Bridge RD.18+000 to 23+000/L.
26. Deg Nullah Bund U/S Qila Ahmad Abad Bridge RD.41+000 to 45+000/R.
27. Deg Nullah Bund U/S Qila Ahmad Abad Bridge RD.46+000 to 47+000/L.
28. Tie Flood Bund between RD.2+000 to RD.4+000.
29. Mehdi Dogar Bund between RD.5+000 to RD.7+000.

Note: Superitending Engineer (SE) will notify all vulnerable sites as per recommendations of Executive Engineer.

12.2 OPERATION OF BREACHING SECTION.

Not Applicable

12.3 BREACHES DUE TO RISE OF FLOOD WATER, DETERIORATION OF FLOOD BUNDS.

Detail of breaches was occurred due to rise of flood water during flood season 2025 are as under:

Sr, No.	Name of Bund
1	Bheco Chak flood bund between RD 2-3 and RD 29-30.
2	Basantar Nullah Flood Bund between RD 0+350 & RD 4-5/R.
3	Deg Nullah U/S of Hangli Bridge between RD.13-15/R.
4	Deg Nullah U/S of Chahoor Bridge between RD.2-3/R.
5	Deg Nullah D/S of Chahoor Bridge between RD.23-25/R

6	Deg Nullah D/S of Chahoor Bridge between RD.17-18/R
7	Deg Nullah D/S of Chahoor Bridge between RD.40-43/R

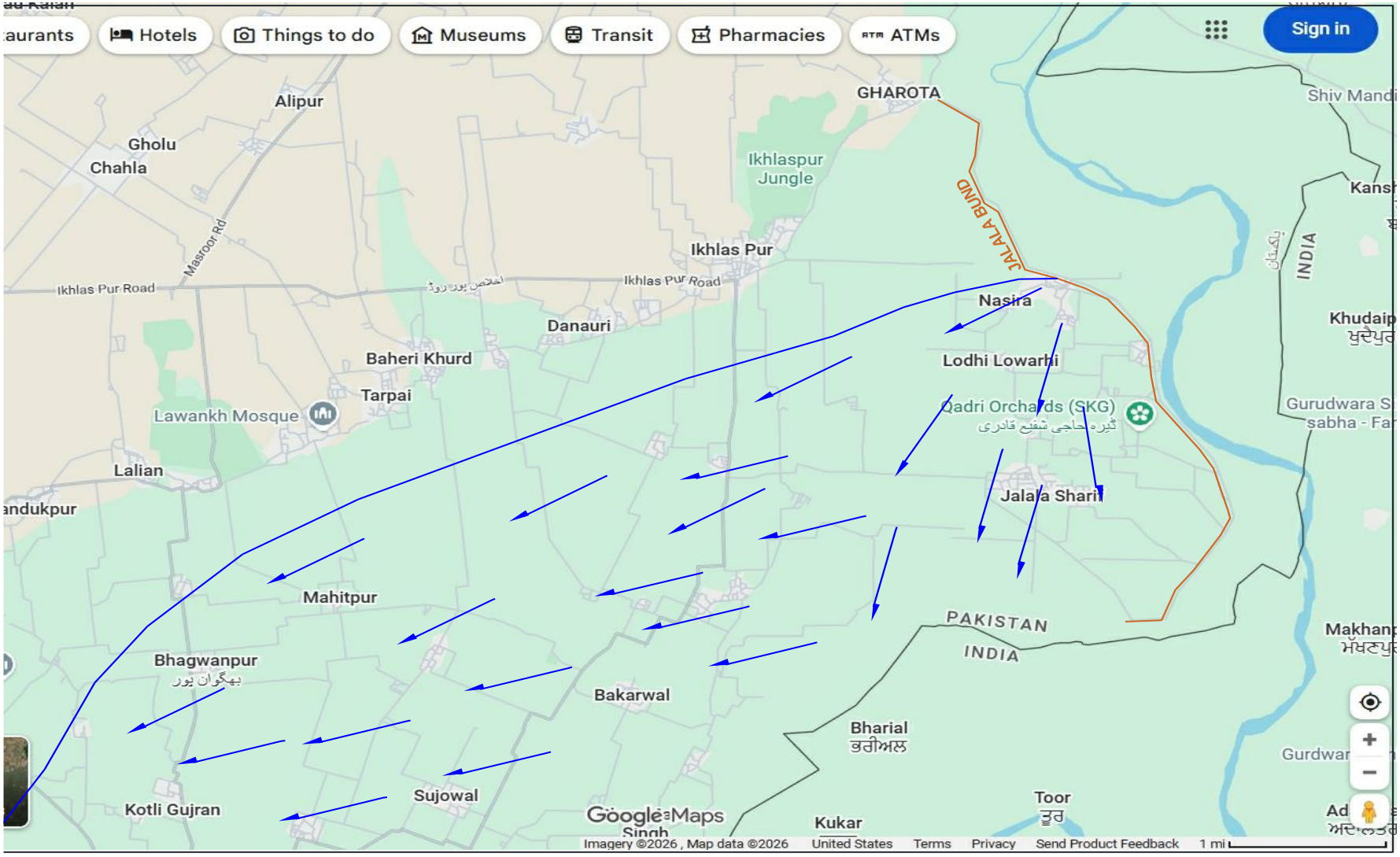
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- A.

1. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH JALALA FLOOD BUND BETWEEN RD.13+000 TO 18+000

1. PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT THE BREACH JALALA FLOOD BUND BETWEEN RD.13+000 TO 18+000



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Chak Jhandar, Warch, Jalala, Fatah,Ahsanpur, Bakarwal, Chainal, Karouual Kot Nanian

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.1.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	

23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Ikhlaspur to Kot Naina Road	20000	5	4	1	--	--	1
Total		**20000**	**5**	**4**	**1**	**--**	**--**	**1**

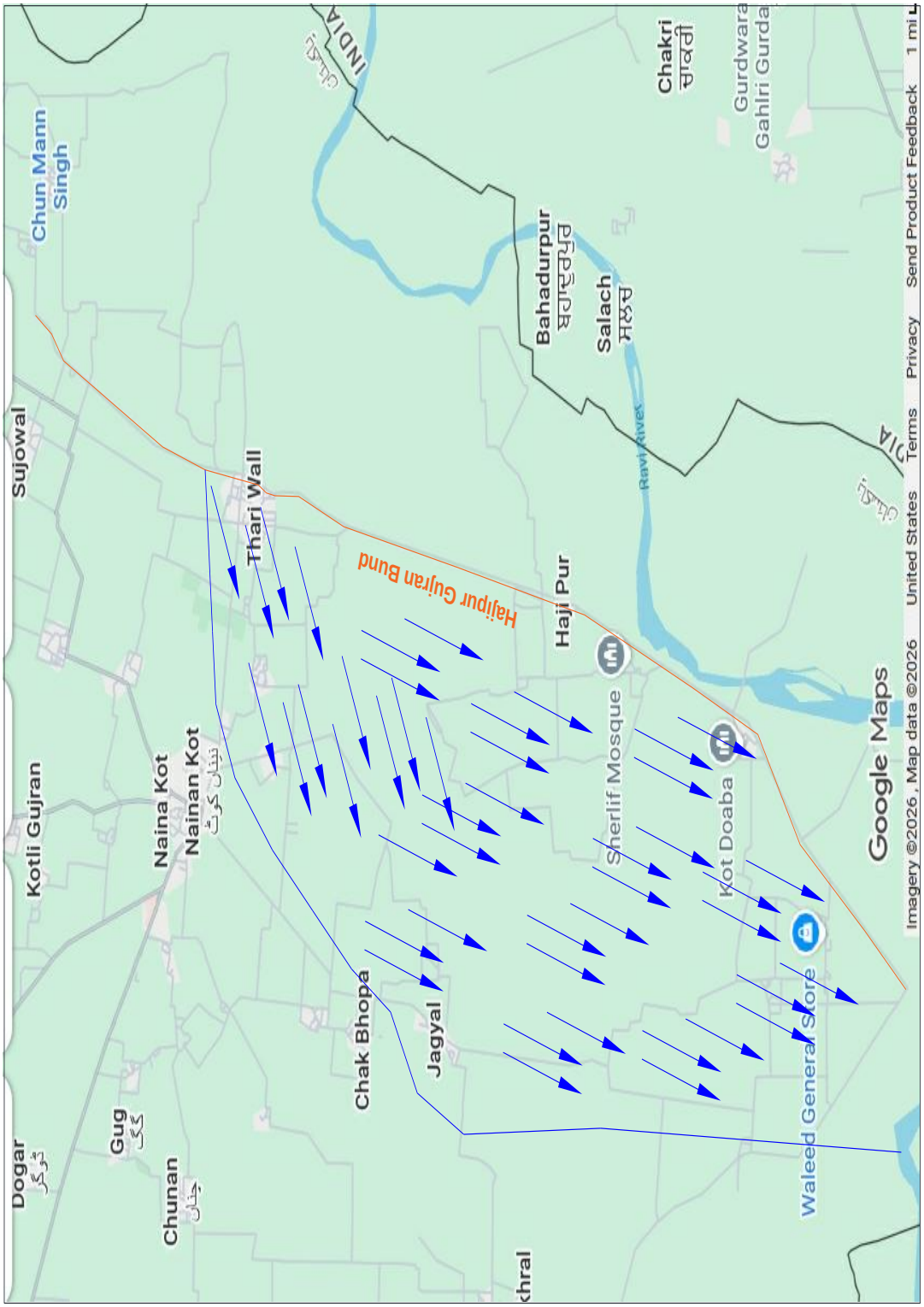
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- B.

2. <u>EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH HAJIPUR GUJRAN BUND FROM RD.6+000 TO RD.7+000 AND 10+000 TO RD.11+500.</u>

2. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH HAJIPUR GUJRAN BUND FROM RD.6+000 TO RD.7+000 AND 10+000 TO RD.11+500.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Thari wall, Dhadwal, Kot Nainan,Gunwal Jattan,Kainth and Ilyaaspur.

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.2.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.

13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	

23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Thari wall, Dhadwal Kot Nania	1500	-	-	-	-	-	1
2	Kot Nania to Gunwal Jattan,Kainth and Ilyaaspur	14000	2	2	1	1	--	1
Total		**15500**	**2**	**2**	**1**	**1**		**2**

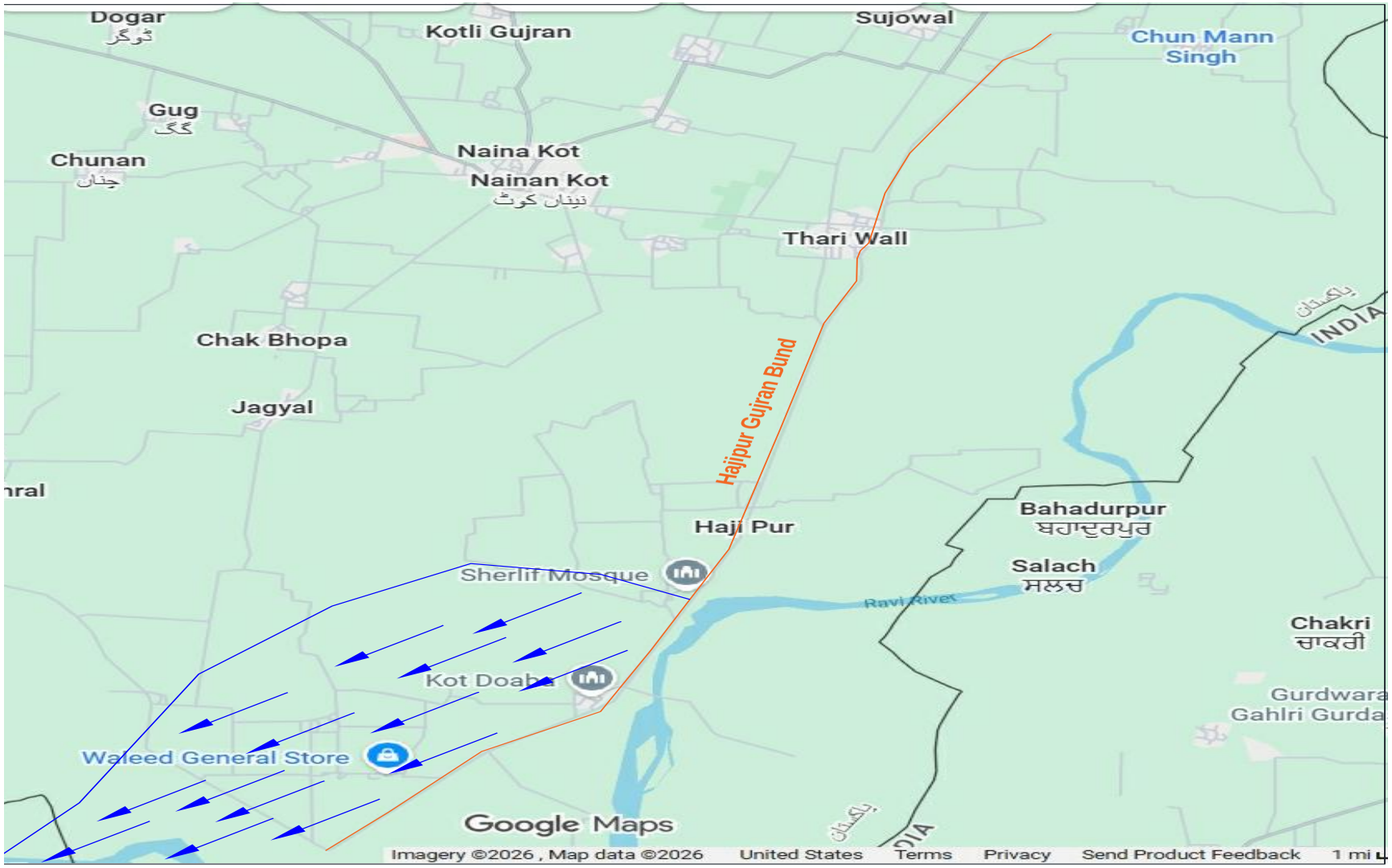
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- C.

3. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH HAJIPUR GUJRAN BUND FROM RD.14+000 TO RD.19+000 AND 23+000 TO RD.26+000.

3. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH HAJIPUR GUJRAN BUND FROM RD.14+000 TO RD.19+000 AND 23+000 TO RD.26+000.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.3.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	0	0	0	
9	Bamboos (4" dia and 10 ft long)	0	0	0	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	0	0	0	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	

23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	0	0	0	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	0	0	0	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc :	Road
1	Kot Nania to Dera Noor Malik	10000	2	2		--	--	1
2	Jughayal to Tabba	5000	1	1				1
Total		**15000**	**3**	**3**		**-**		**2**

CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- D.

4. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH BHECO CHAK FLOOD BUND FROM RD.25+000 TO 29+000.

4. PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT THE BREACH.
Bheco Chak Flood Bund FROM RD.25+000 TO 29+000.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Boora Dala, Mundiali, Gole, Ali Lngah, Mundhi khail, Manzoorpura plot, Doda, Kartarpur.

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.4.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	

23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Boora Dala	3000	1	1		--	--	1
2	Mundiali	2000	1	1	--	--	--	1
3	Gole	3900	1	1	--	--	--	1
4	Ali Langah	500	-	-	--	--	--	1
5	Mundhi Khel	2500	1	1	1	--		
6	ManzoorPua Plot	7000	1	1	1	--	U.C	1
7	Kartarpur	1500	-	-	--	--	Darbar kartarpur sahib	1
Total		**20400**	**5**	**5**	**2**	**-**		**6**

CHAPTER - 13

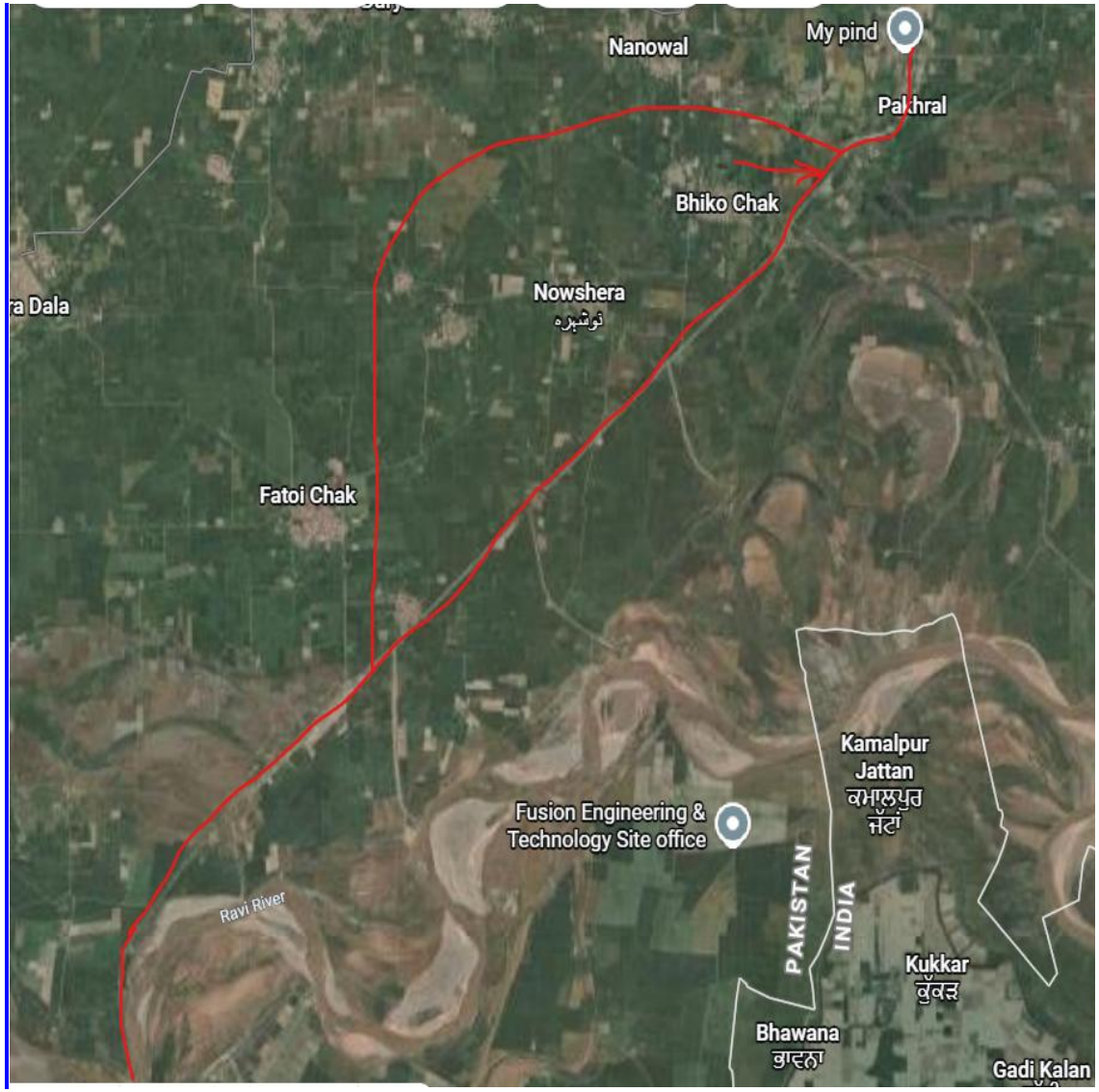
EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- E.

5. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH BHECO CHAK FLOOD BUND FROM RD.3+000 TO 4+000.

5. PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT THE BREACH.

Bheco Chak Flood Bund FROM RD.3+000 TO 4+000.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Bhiko Chak, Nowshera, Fatoi Chak

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.5.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	0	0	0	
9	Bamboos (4" dia and 10 ft long)	0	0	0	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	0	0	0	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	

24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	0	0	0	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	0	0	0	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Bhiko Chak,	2000	-	-		--	--	1
2	Nowshera,	1500	-	-	--	--	--	1
3	Fatoi Chak	1200	-	-	--	--	--	1
Total		**4700**	**-**	**-**	**-**	**-**		**3**

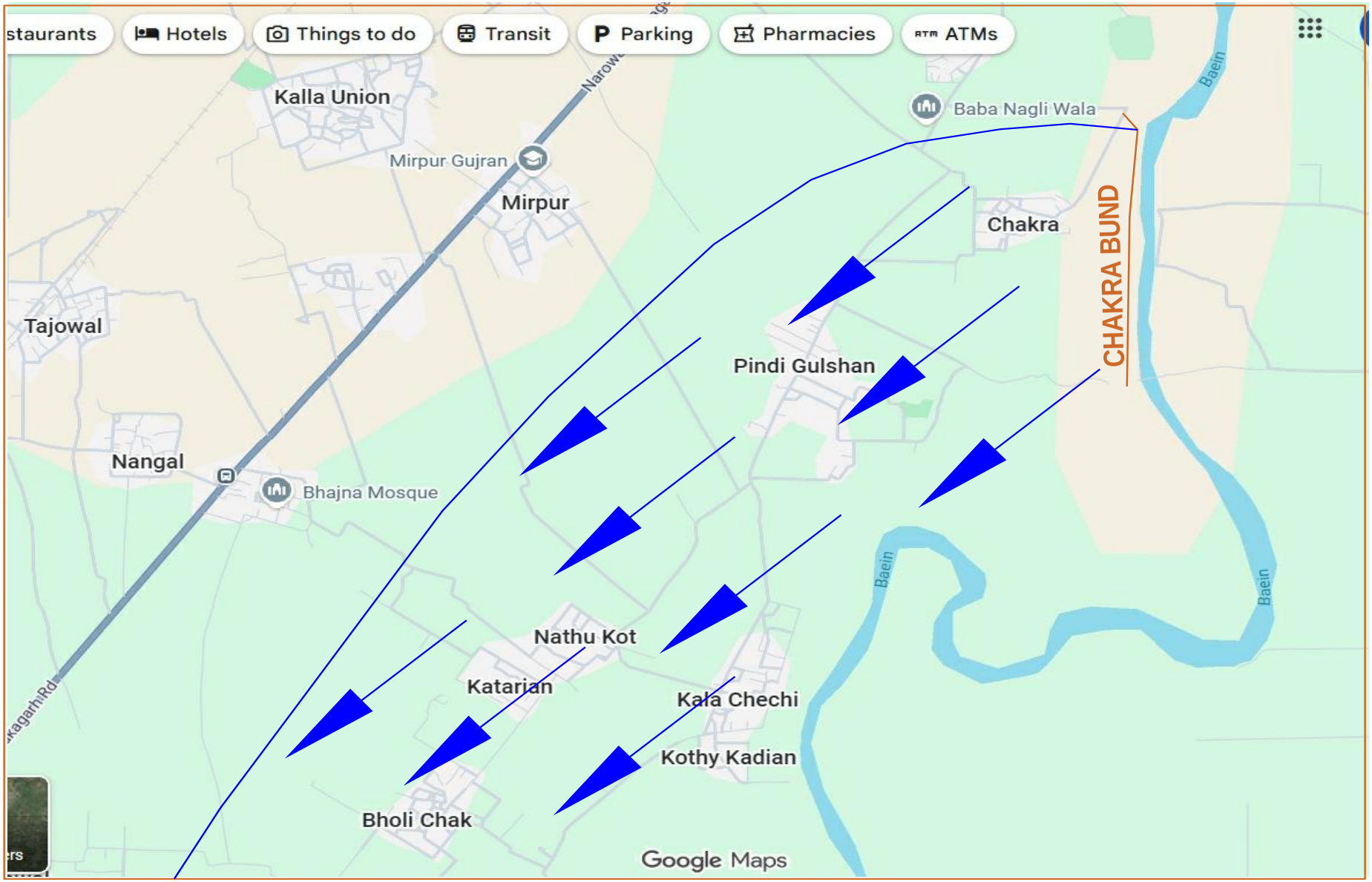
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- F.

6. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE CHAKRA FLOOD BUND AT RD.0+735.

6. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE CHAKRA FLOOD BUND AT RD.0+735.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Chakra, Pindi Gulshan, NathuKot, Kala Chechi, Kothy Kandian, Katarian, Bholi Chak

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.6.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	

24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Chakra	700	1	-	-	--	--	1
2	Pindi Gulshan	750	1	-	--	--	--	1
3	NathuKot,	650	1	-	--	--	--	1
4	Kandian	650	1	-	--	--	--	1
5	, Kala Chechi	800	-	-	-	--		1
6	Bholi Chak	800	-	-	-	--		1
Total		**4350**	**4**	**-**	**-**	**-**		**6**

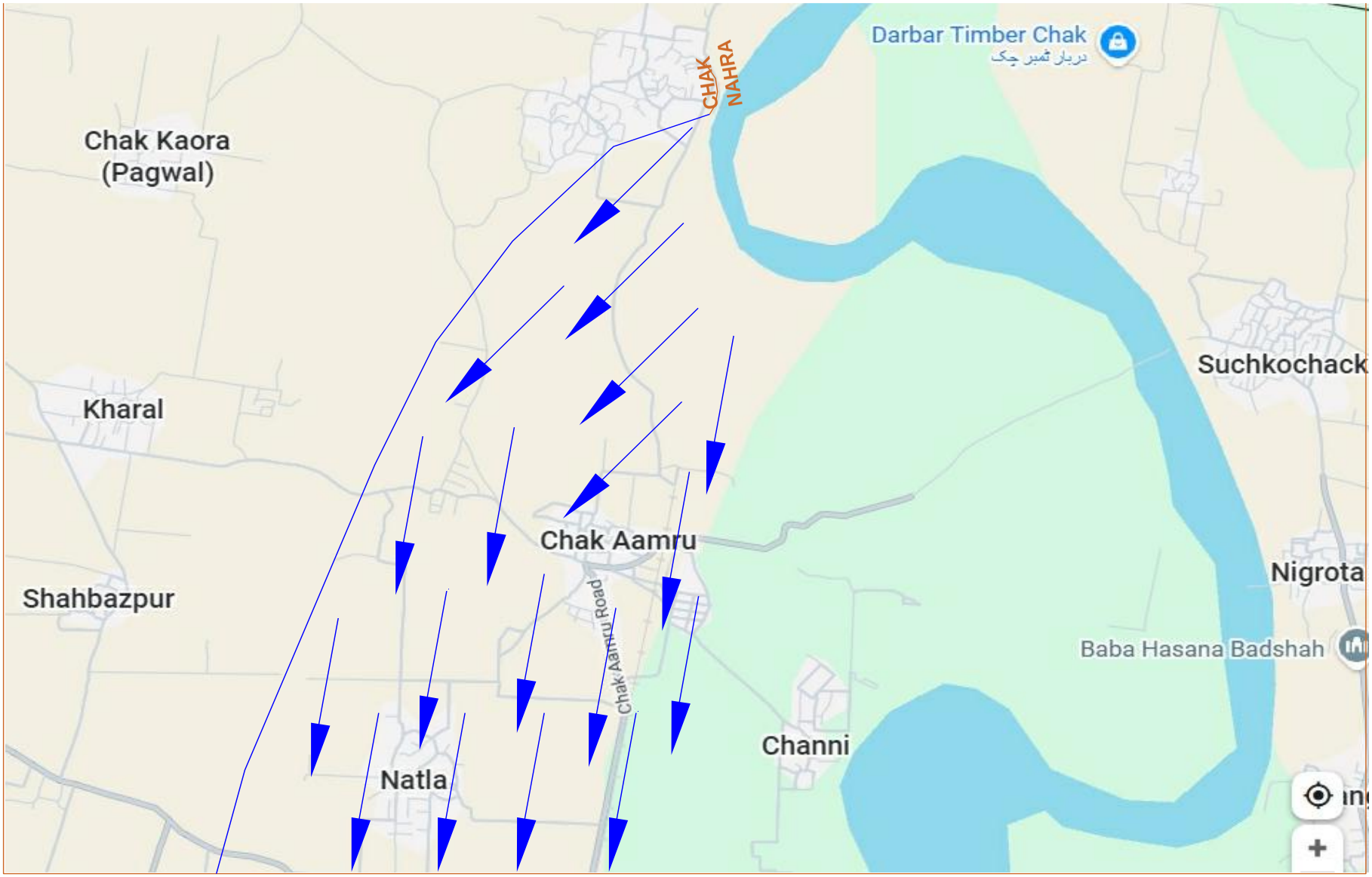
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- G.

7. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE VILLAGE CHAK NAHRA

7. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE VILLAGE CHAK NAHRA



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Chak Nahra,Chak Aamru, Natla

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.7.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	0	0	0	
9	Bamboos (4" dia and 10 ft long)	0	0	0	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	0	0	0	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	

22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	0	0	0	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	0	0	0	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Chak Nahra	700	1	-	-	--	--	1
2	Chak Aamru	1500	1	1	1	--	--	1
3	Natla	1000	1	-	--	--	--	1
Total		**3200**	**3**	**1**	**-**	**-**		**3**

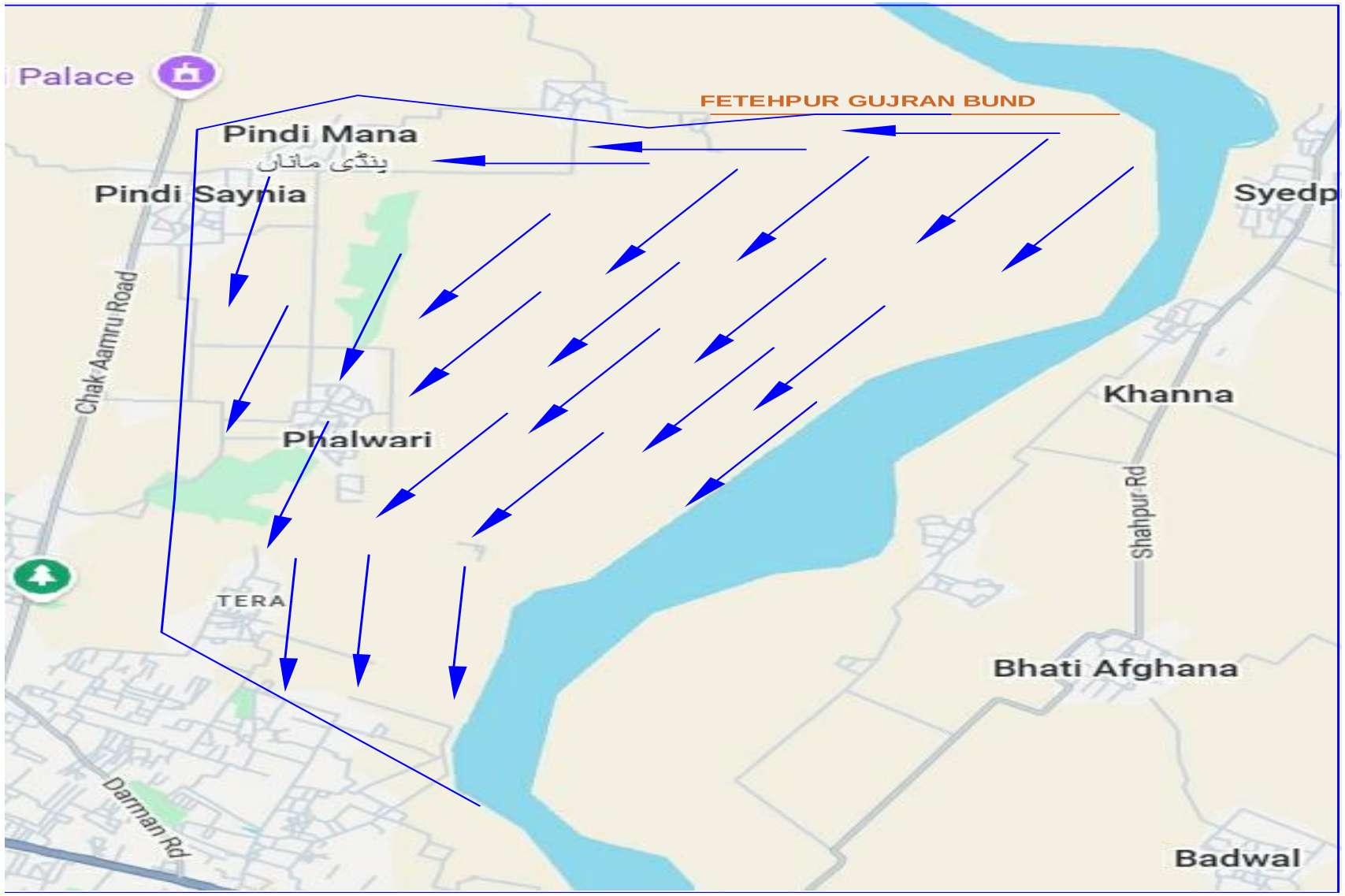
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- H.

8. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE VILLAGE FATAHPUR GUJRAN

8. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE VILLAGE FATAHPUR GUJRAN



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Fatherpur Gujran, Pindi Mana, Pindi Sayiana,Phalwali, Tera

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.8.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	0	0	0	
9	Bamboos (4" dia and 10 ft long)	0	0	0	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	0	0	0	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	

23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	0	0	0	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	0	0	0	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Fatherpur Gujran	500	1	-	-	--	--	1
2	Pindi Mana, Pindi Sayiana	2000	1	1	1	--	--	1
3	Phalwali	800	1	-	--	--	--	1
4	Tera	700	1	-	--	--	--	1
Total		**4000**	**4**	**1**	**1**	**-**		**4**

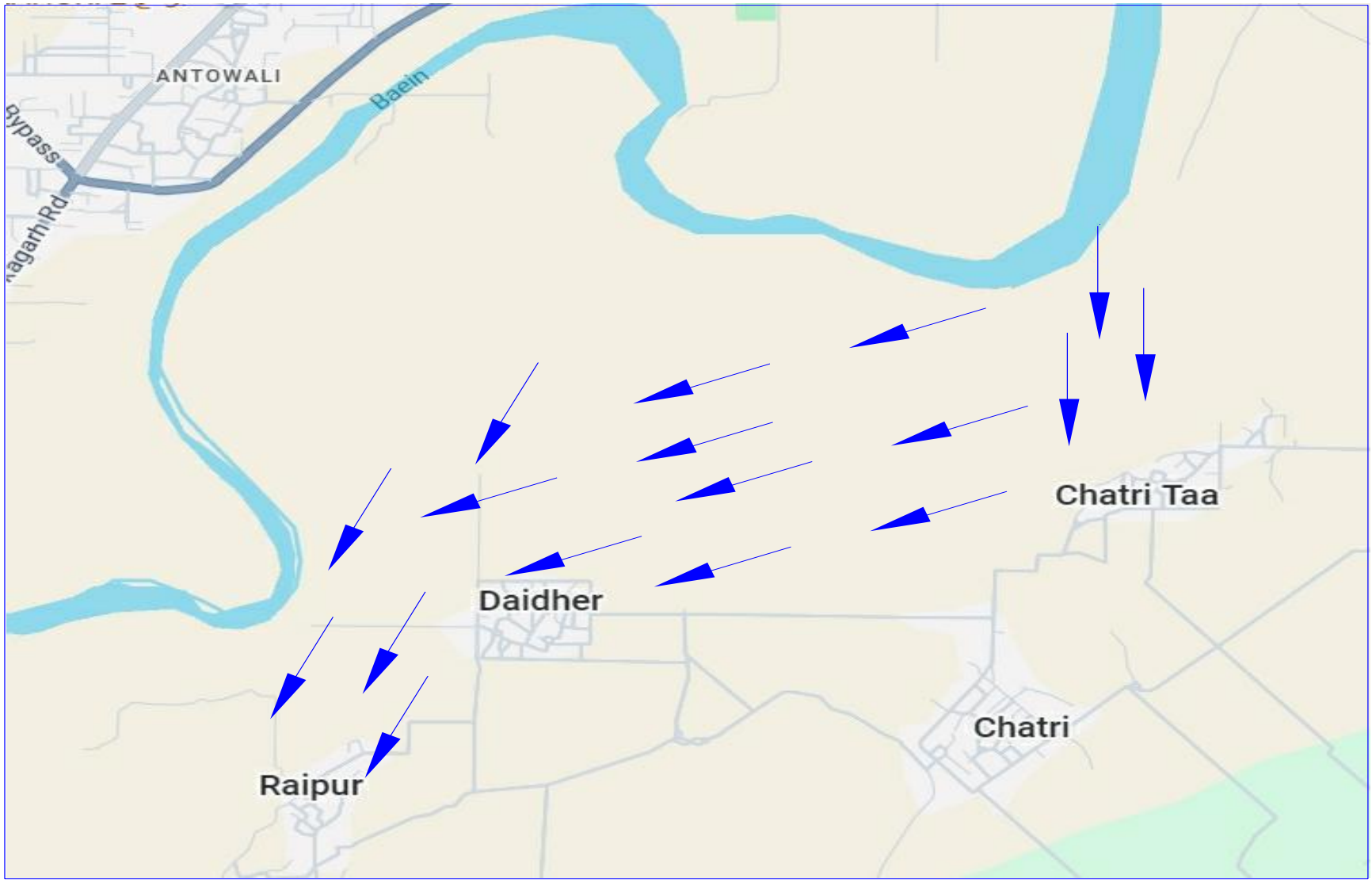
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- I.

9. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE VILLAGE CHATRI TAA

9. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE VILLAGE CHATRI TEAA



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Chatri Taa, Chatri, Daidher and Rajpur

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.9.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	0	0	0	
9	Bamboos (4" dia and 10 ft long)	0	0	0	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	0	0	0	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	

23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	0	0	0	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	0	0	0	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Chatri Taa	700	1	-	-	--	--	1
2	Chatri,	1200	-	-	--	--	-	-
3	Daidher	400	-	-	--	--	-	-
4	Rajpur	150	-	-	--	--	-	-
Total		**2400**	**1**	**-**	**-**	**--**	**--**	**1**

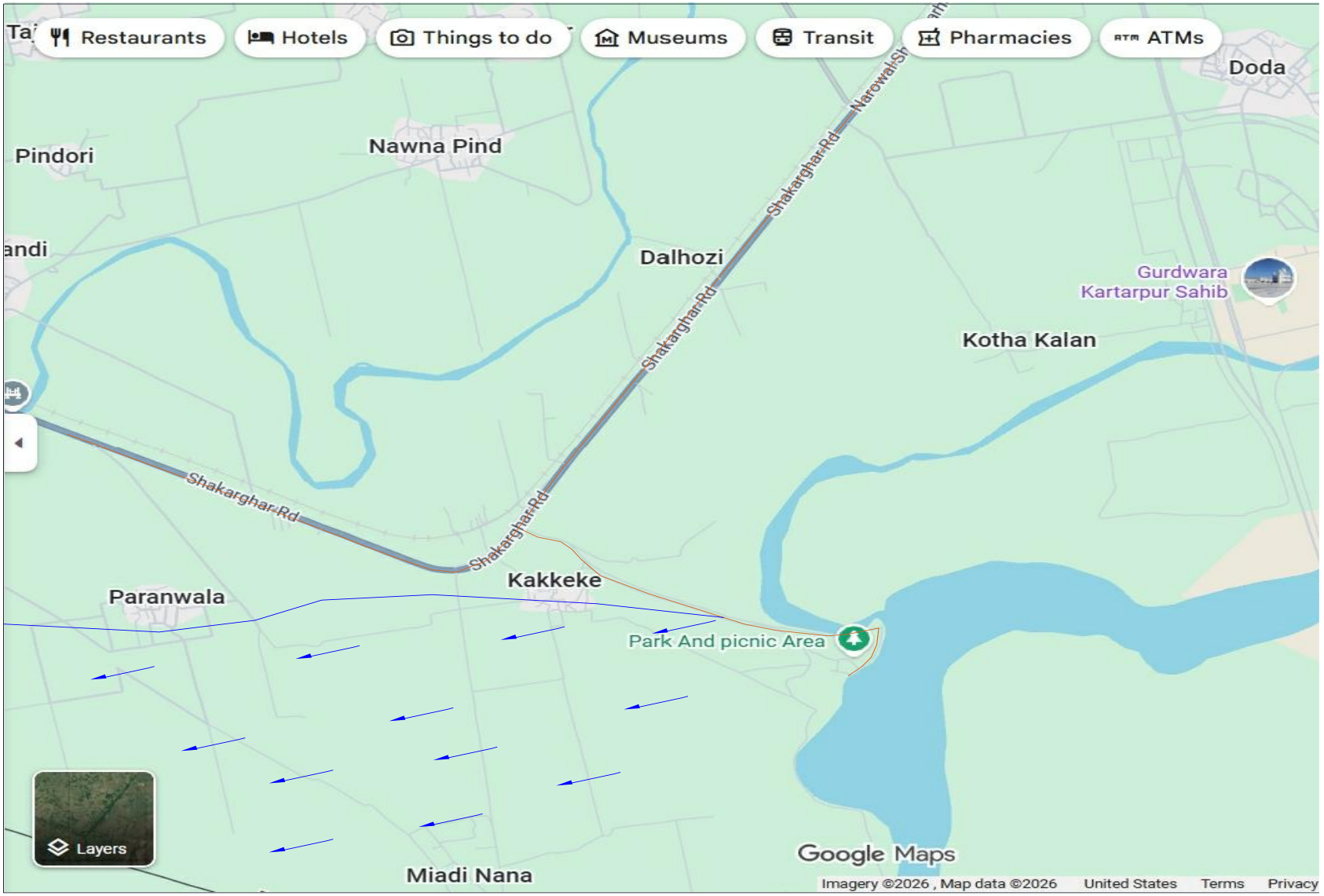
CHAPTER – 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- J.

10. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH J-HEAD SPUR FROM RD.3+000 TO 4+000 OF JASSAR BUND.

10. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH J-HEAD SPUR FROM RD.3+000 TO 4+000 OF JASSAR BUND.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Kakkeke, Maiadi Nana and Paranawala

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.10.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High –	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	

Exceptionally	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	3	3	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	4	46	
8	Polyethene Sheet	100	0	100	

9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	1	9	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	3	17	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	0	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	0	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Narowal to Shakargarh Road	1000	-	-		--	--	1
Total		**1000**	**-**	**-**		**-**		**1**

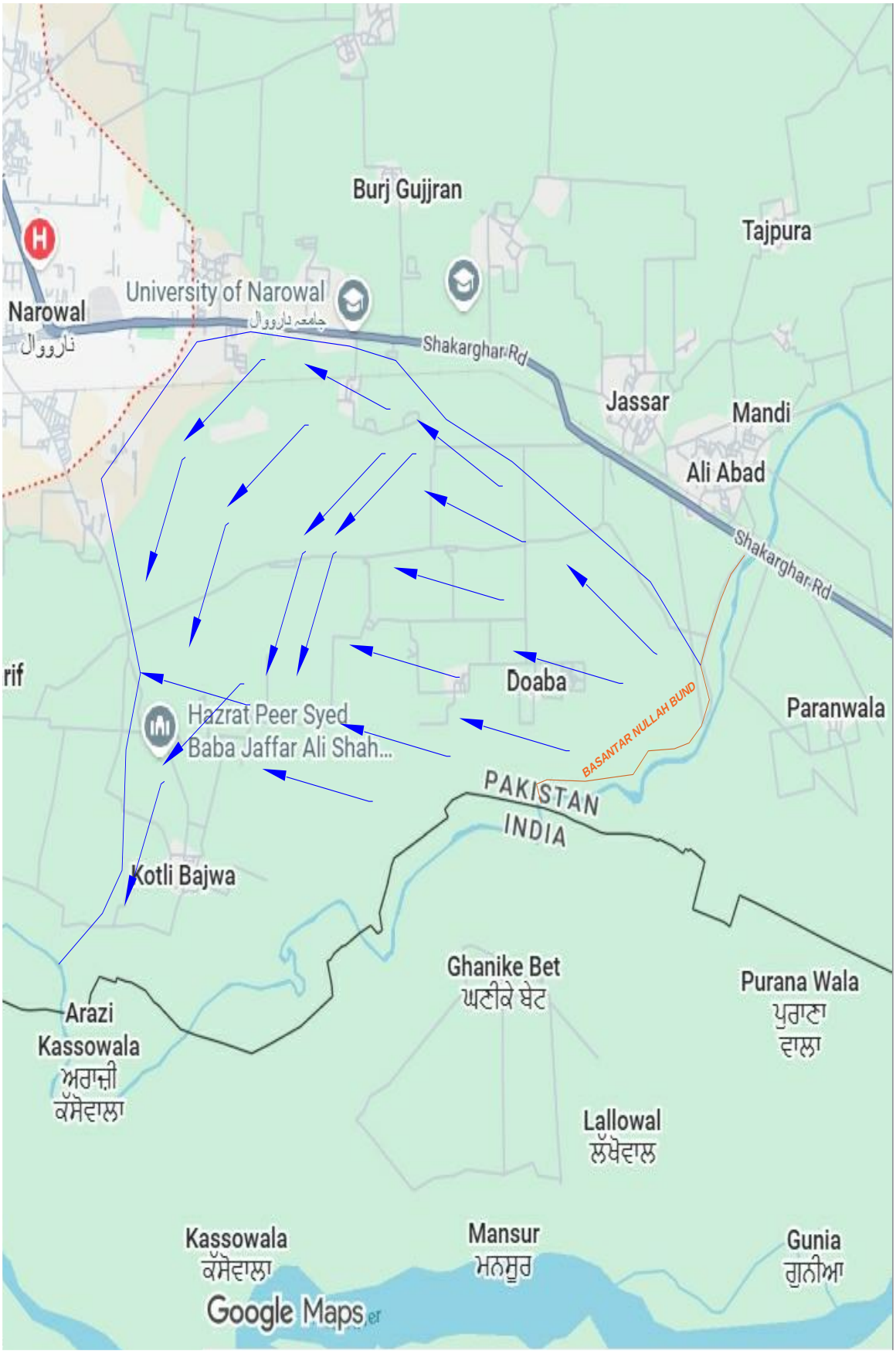
CHAPTER – 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- K.

11. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH BASANTER NULLAH BUND FROM RD.4+000 TO 5+000.

11. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH BASANTER NULLAH BUND FROM RD.4+000 TO 5+000.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Doaba, Nangli, Fasipur, Chak Saran, Jassar, University of Narowal, Kotli Bajwa

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.11.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High – Exceptionally	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section	i.At J-Spur of Jassr Bund.

	Muhammad Afzal Khan 0300-7766587	ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	0	0	0	
9	Bamboos (4" dia and 10 ft long)	0	0	0	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	0	0	0	

13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	0	0	0	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	0	0	0	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc :	Road
1	Narowal to Shakargarh Road	5000	1	1	1	1	--	1
2	Doaba, Nangli, Fasipur to Narowal Shakargarh Road	2500	1	1	-	-		1
Total		**7500**	**2**	**2**	**1**	**1**	**-**	**2**

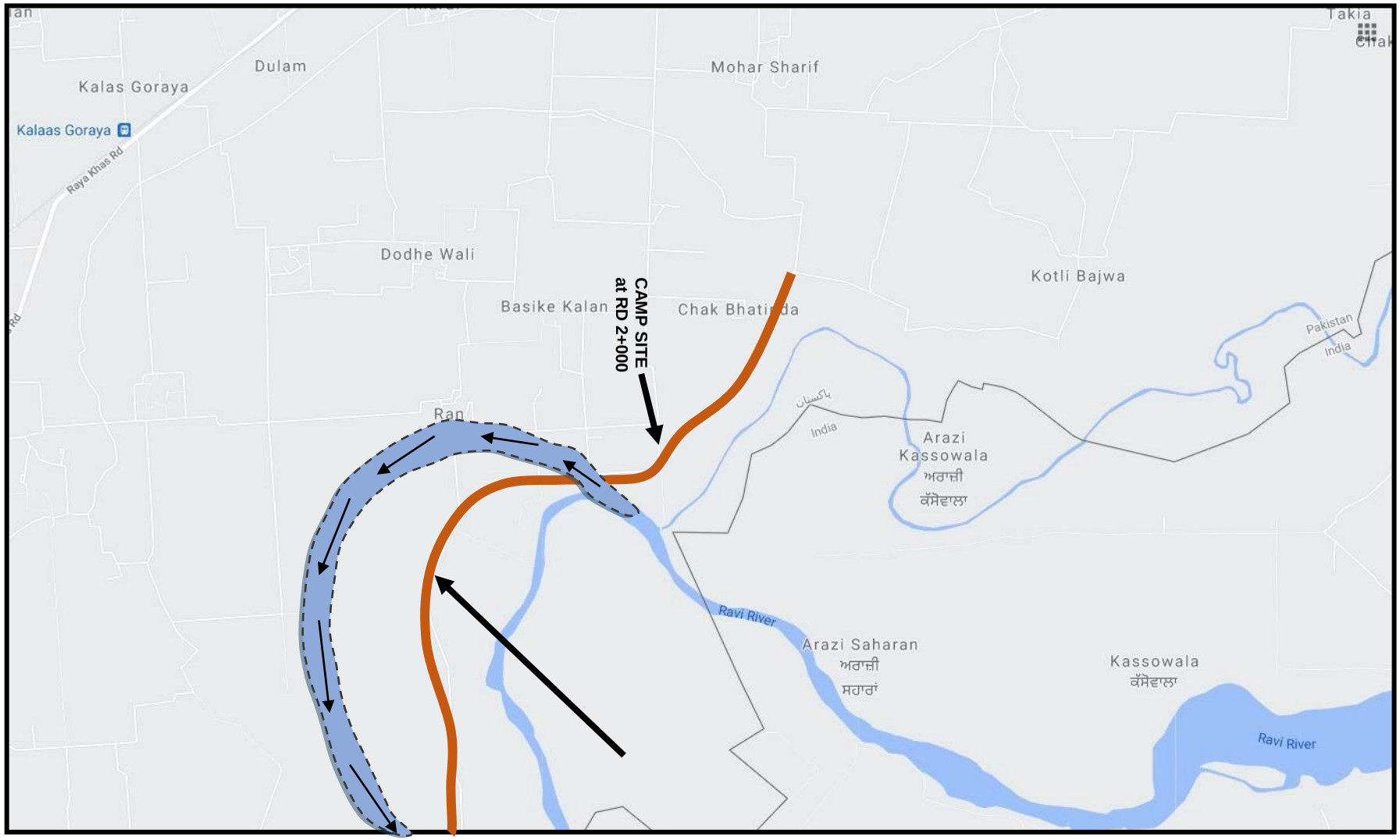
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- L.

12. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH CHANDIAN DOWEL BUND FROM RD 0+000 TO 7+350

12. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH CHANDIAN DOWEL BUND FROM RD 0+000 TO 7+350



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Baseke, Ranwan, Chandianwali, Chak Bathindah, Chailianwali, Doolam, Khral, Mahar Sharif, Kotli Hasan Shah, Nangle, Nadir, Sotia Bambia.

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.12.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very	Sub Divisional office Muhammad Saleem Ashraf	

High – Exceptionally	0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE.

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	2	48	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	

10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	2	3	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	3	17	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr. #	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Baseke	5500	1	1	--	--	--	1
2	Daie wala	980	1	1	1	--	--	1
3	Rawan	1200	1	1	--	--	--	1
4	Chak Bathinda	300	--	--	--	--	--	1
5	Chandianwali	1100	1	1	--	--		1
6	Mahar Sharif	1500	1	1	--	--	--	1
7	Chailawali	1183	1	1	1	--	--	1
8	Dulam	1551	1	1	--	--	--	1
9	Kharl	738	1	1	--	--	--	1
10	Kotli hasan Shah	2829	1	1	--	--	--	1
11	Nangal	200	--	--	--	--	--	1
12	Nadeer	335	--	--	--	--	--	1
13	Sutia Bambia	933	1	1	--	--	--	1
Total		**18349**	**10**	**10**	**2**	**0**	**0**	**13**

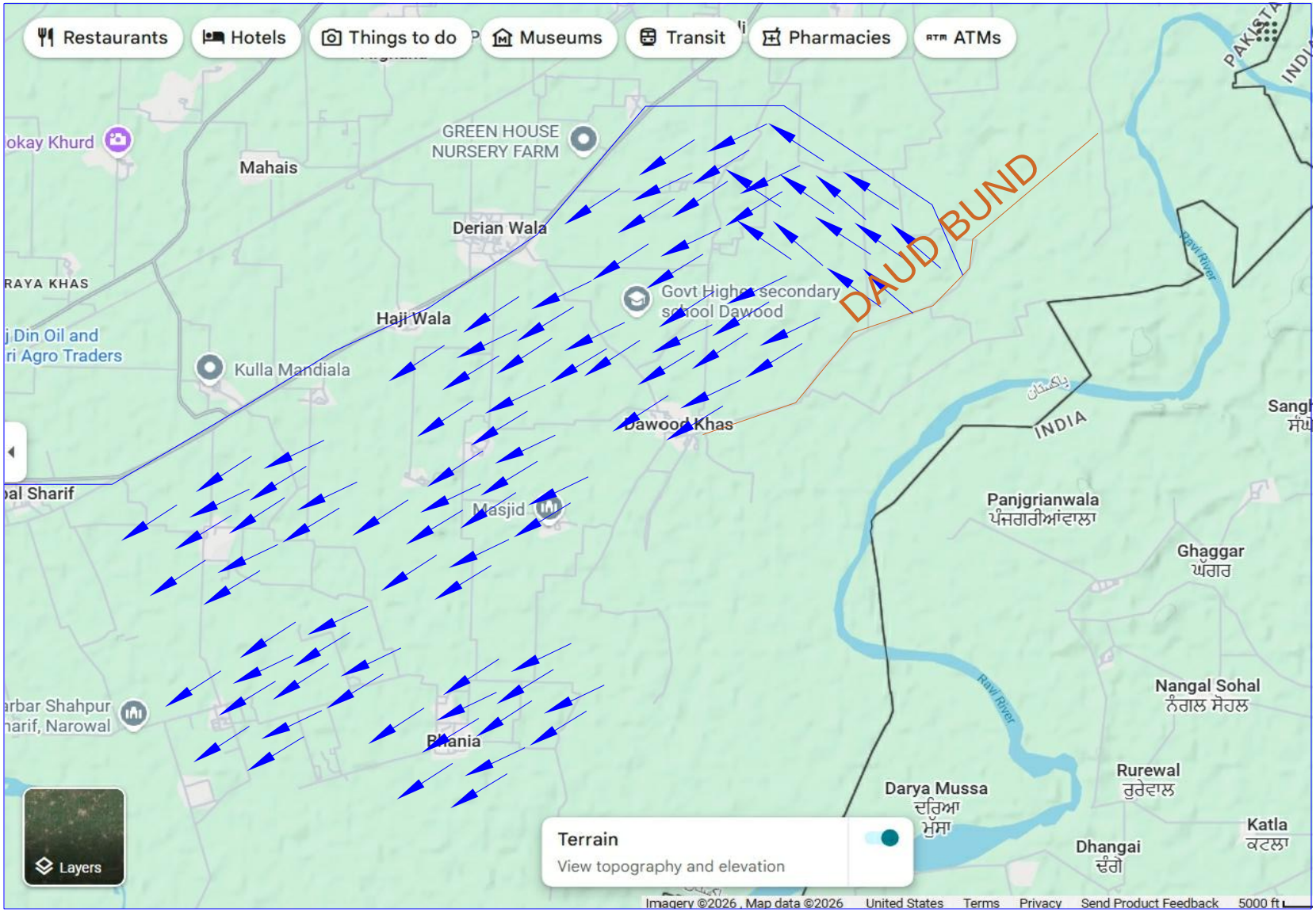
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- M.

13. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH DAUD FLOOD BUND FROM RD.8+000 TO 11+000 AND 15+000 TO 17+000.

13. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH DAUD FLOOD BUND FROM RD.8+000 TO 11+000 AND 15+000 TO 17+000.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Daud Khas, Haji wala, Kulla Mandiala, Bhaiia, Chaudhary China, Sahowal, Miadian Malahan

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.13.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very	Sub Divisional office Muhammad Saleem Ashraf	

High – Exceptionally	0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	0	0	0	
9	Bamboos (4" dia and 10 ft long)	0	0	0	
10	Water Coller	1	0	1	

11	Portable Umbrella	2	0	2	
12	Life Jackets	0	0	0	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	3	17	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	0	0	0	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	0	0	0	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Daud Khas	800	-	1	--	--	--	1
2	Haji wala	500	-	-	-	--	--	1
3	Bhaiia	250	1	-	--	--	--	1
4	Chaudhary China	200	1	--	--	--	--	1
5	Sahowa	200	1	---	--	--		1
6	Lalywali	150	---	1	--	--	--	1
Total		**2200**	**3**	**2**	**---**	**0**	**0**	**6**

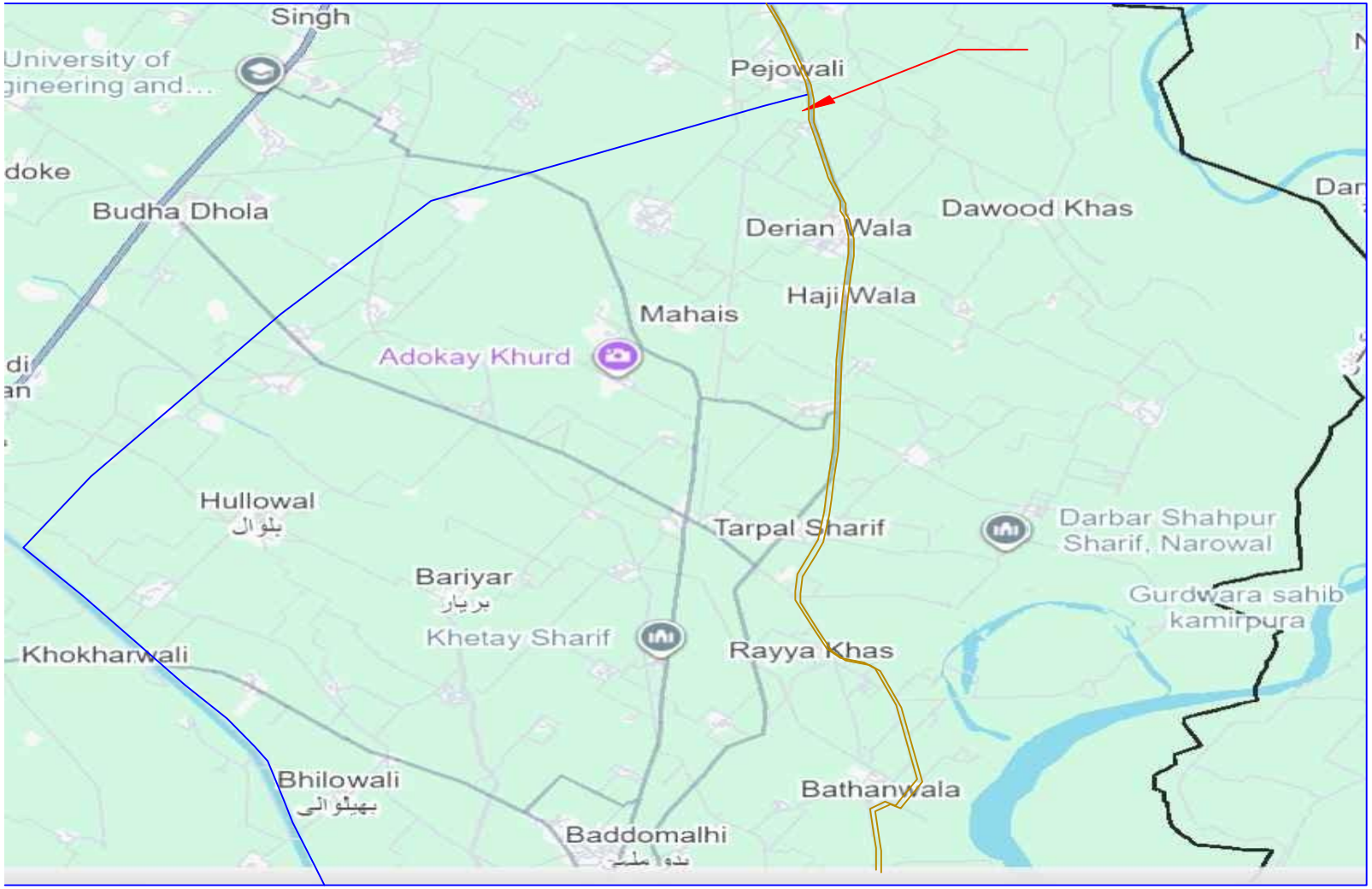
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- N.

14. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 24+000 TO 30+000

14. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 24+000 TO 30+000



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Pejowali, Arood Afghana, Mahais, Chotti Pejowali, Derian Wala, Haji Wala, Kulla Mandiala

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.114.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High – Exceptionally	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section	i.At J-Spur of Jassr Bund.

	Muhammad Afzal Khan 0300-7766587	ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	2	3	

13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Pejowali,	1000	-	1	--	--	--	1
2	Arood Afghana	800	-	-	-	--	--	1
3	Mahais	650	-	-	--	--	--	1
4	Chotti Pejowali	400	-	-	1	--	--	1
5	Derian Wala	1500	-	1	1	--		1
6	Haji Wala	400	-	-	1	--	--	1
7	, Kulla Mandiala	400	-	1	-	--	--	1
Total		**5150**	**-**	**3**	**3**	**0**	**0**	**7**

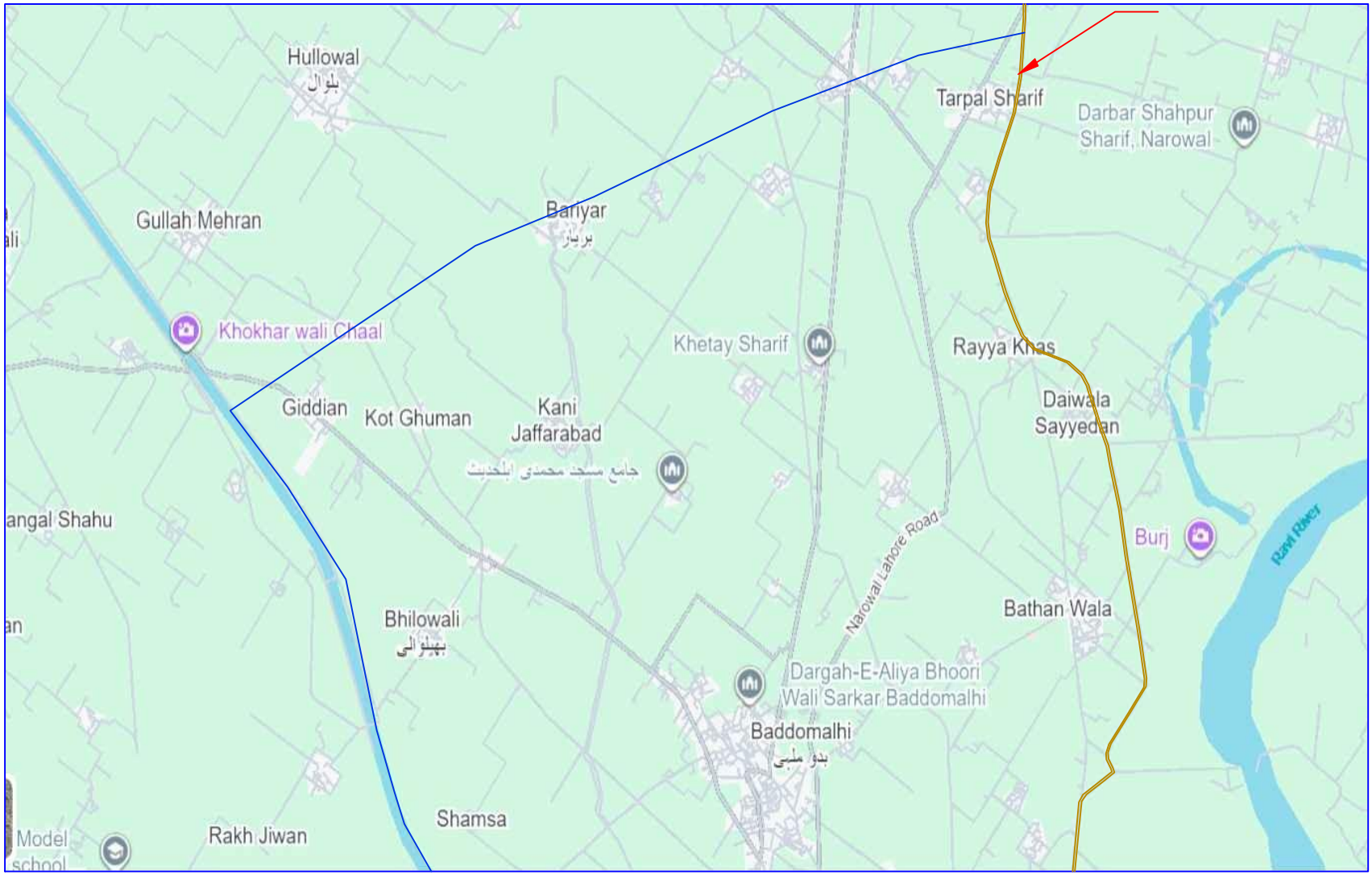
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- O.

15. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 52+000 to 53+000

15. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 52+000 to 53+000



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Tarpal Sharif, Rayya Khas, Baddomalhi, Shamsa

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.15.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High –	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	

Exceptionally	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	

13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Tarpal Sharif,	1000	-	1	--	--	--	1
2	Rayya Khas	800	-	-	-	--	--	1
3	Baddomalhi,	20000	2	2	1	-	-	1
4	Shamsa	400	-	-	-	-	-	1
Total		**22200**	**2**	**3**	**-**	**0**	**0**	**4**

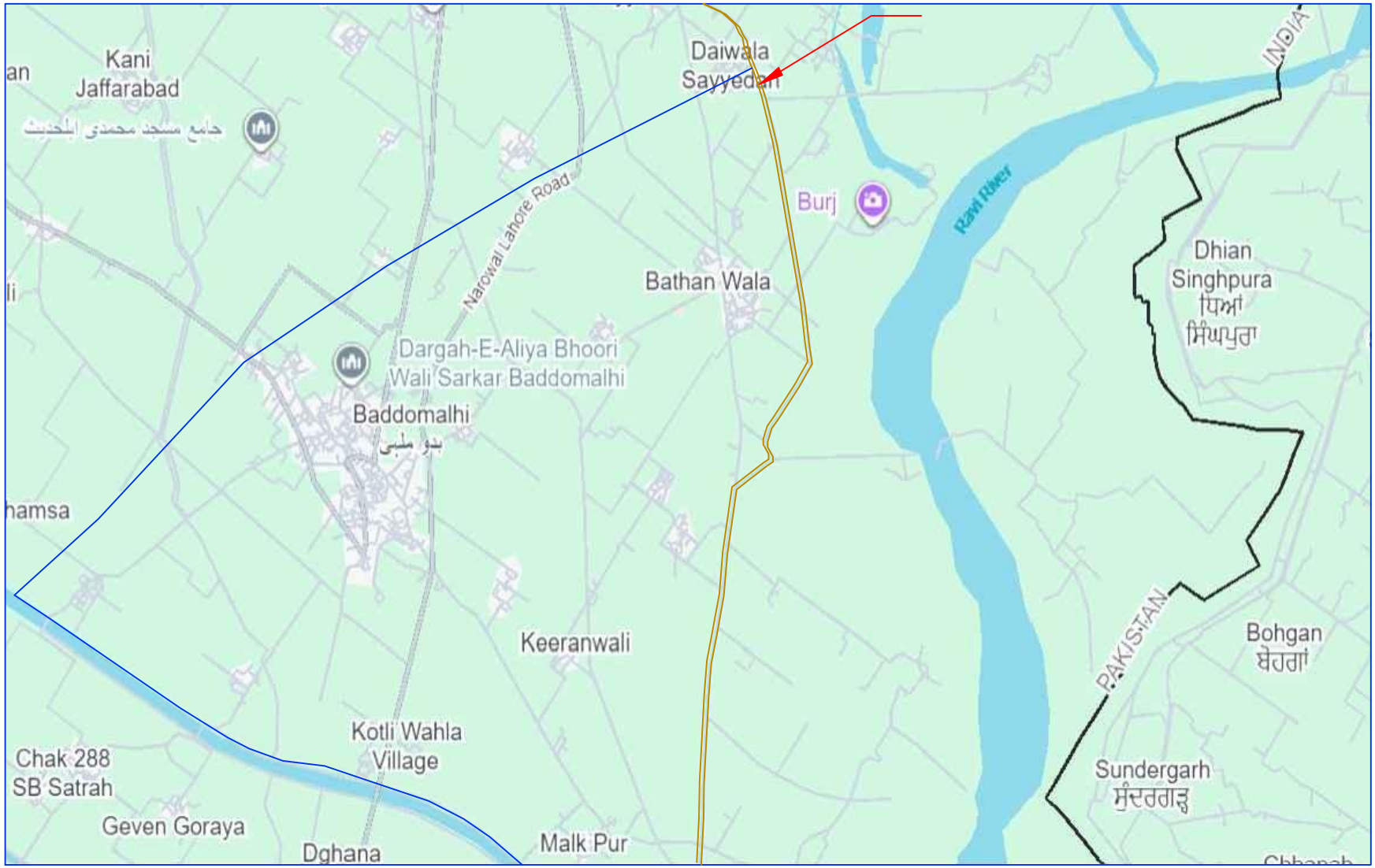
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- P.

16. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM RD.63+000 to 67+000

16. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 63+000 to 67+000



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Daiwala Sayyedan, Bathan Wala, Nathay Wali, Baddomalhi, Kotli Wahla Village, Keeranwali, Malk Pur

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.16.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High –	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	

Exceptionally	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	

12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Daiwala Sayyedan	700	-	-	--	--	--	1
2	Bathan Wala	1200	-	-	2	--	--	1
3	Nathay Wali	400	-	-	-	-	-	1
4	Baddomalhi,	20000	2	2	1	-	-	1
5	Kotli Wahla	300	-	-	-	-	-	1
6	Keeranwali	400	-	1	-	-	-	1
7	Malk Pur	1200	-	-	-	-	-	1
8	Ammi Shah	300	-	-	-	-	-	1
Total		**24500**	**2**	**3**	**3**	**0**	**0**	**8**

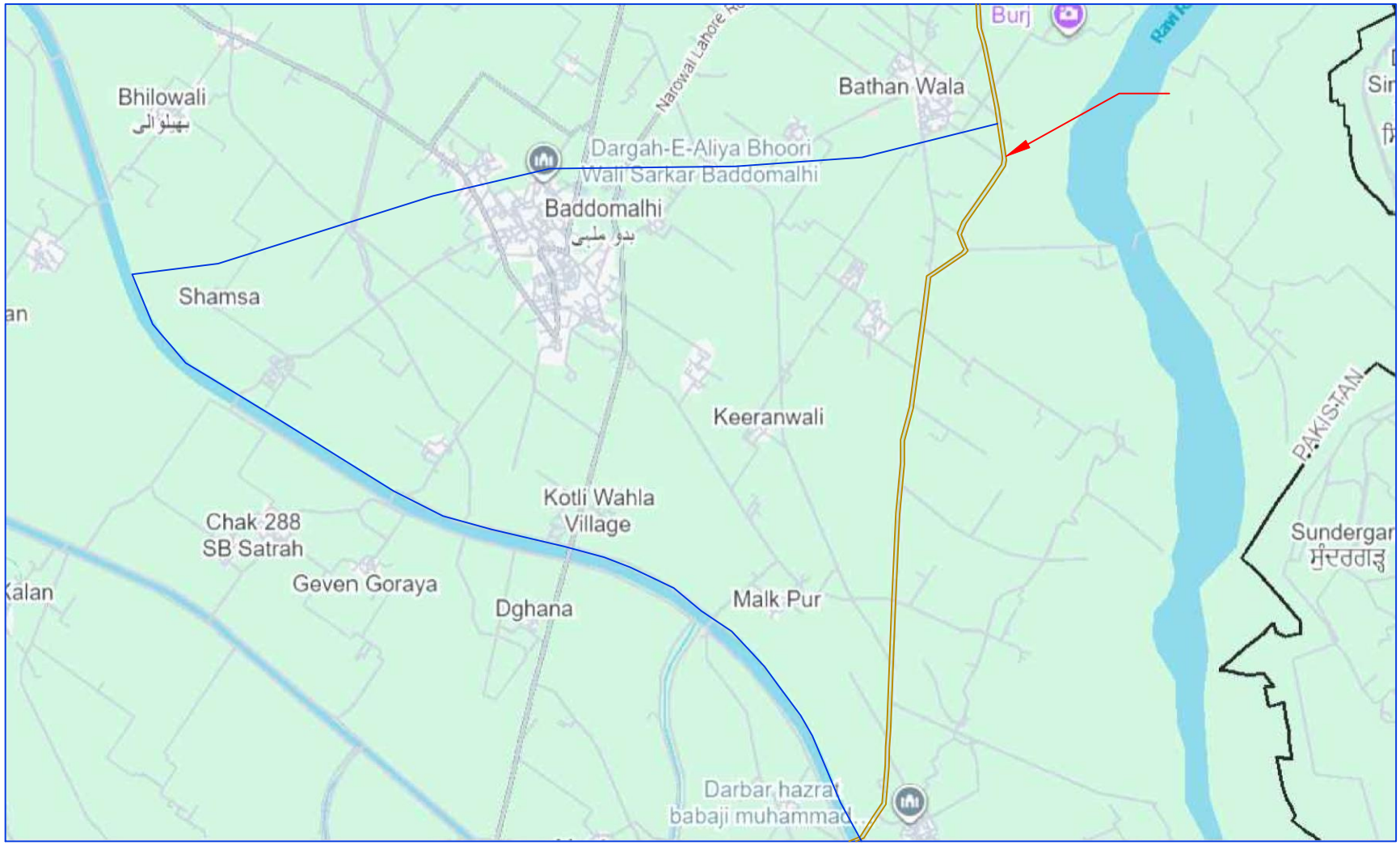
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- Q.

17. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 69+000 to 77+000

17. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 69+000 to 77+000



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Nathay Wali, Baddomalhi, Kotli Wahla Village, Keeranwali, Malk Pur

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.17.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High –	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	

Exceptionally	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	

13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc :	Road
1	Nathay Wali	400	-	-	-	-	-	1
2	Baddomalhi,	20000	2	2	1	-	-	1
3	Kotli Wahla	300	-	-	-	-	-	1
4	Keeranwali	400	-	1	-	-	-	1
5	Malk Pur	1200	-	-	-	-	-	1
6	Ammi Shah	300	-	-	-	-	-	1
Total		**22600**	**2**	**3**	**1**	**0**	**0**	**6**

CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- R.

18. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 80+000 to 85+000

18. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 80+000 to 85+000



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Nathay Wali, Kotli Wahla Village, Malk Pur

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.18.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very	Sub Divisional office Muhammad Saleem Ashraf	

High – Exceptionally	0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	

8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Nathay Wali	400	-	-	-	-	-	1
2	Kotli Wahla	300	-	-	-	-	-	1
3	Malk Pur	1200	-	-	-	-	-	1
Total		**1900**	**-**	**-**	**-**	**0**	**0**	**3**

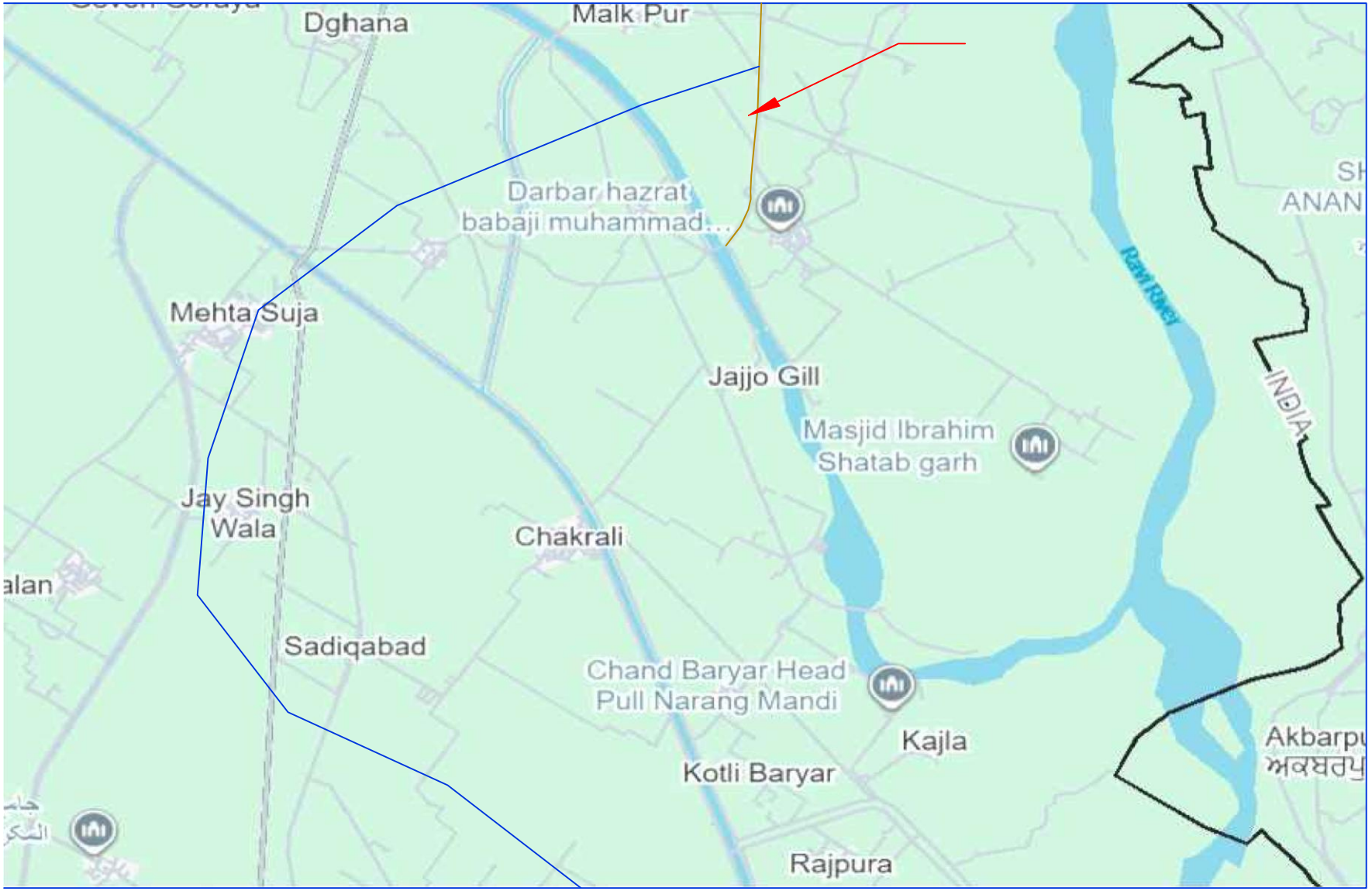
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- S.

19. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM RD.87+000 TO 94+000

19. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF RAYYA FLOOD BUND FROM 87+000 to 94+000



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Miroowal, Nangal Waris Khan, Mardana, Jajjo Gill, Chakrali, Mehta Suja, Jay Singh Wala, Mari Khurd, Mari Kalan, Uncha Pind, Jay Singh Wala,, Sadiqabad

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.19.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium –	Sub Divisional office	

High & Very High – Exceptionally	Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	

11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Miroowal	300	-	-	-	-	-	1
2	Nangal Waris Khan	300	-	-	-	-	-	1
3	Mardana	500	-	1	-	-	-	1
4	Jajjo Gill	250	-	-	-	-	-	1
5	Chakrali,	500	-	-	-	-	-	1
6	Mehta Suja	2000	-	-	1	-	-	1
7	Jay Singh Wala	1000	1	1	-	-	-	1
8	Mari Khurd,	1000	-	-	-	-	-	1
9	Mari Kalan	1000	-	-	-	-	-	1
10	Uncha Pind	1000	-	-	-	-	-	1
Total		**7850**	**1**	**2**	**1**	**-**	**-**	**10**

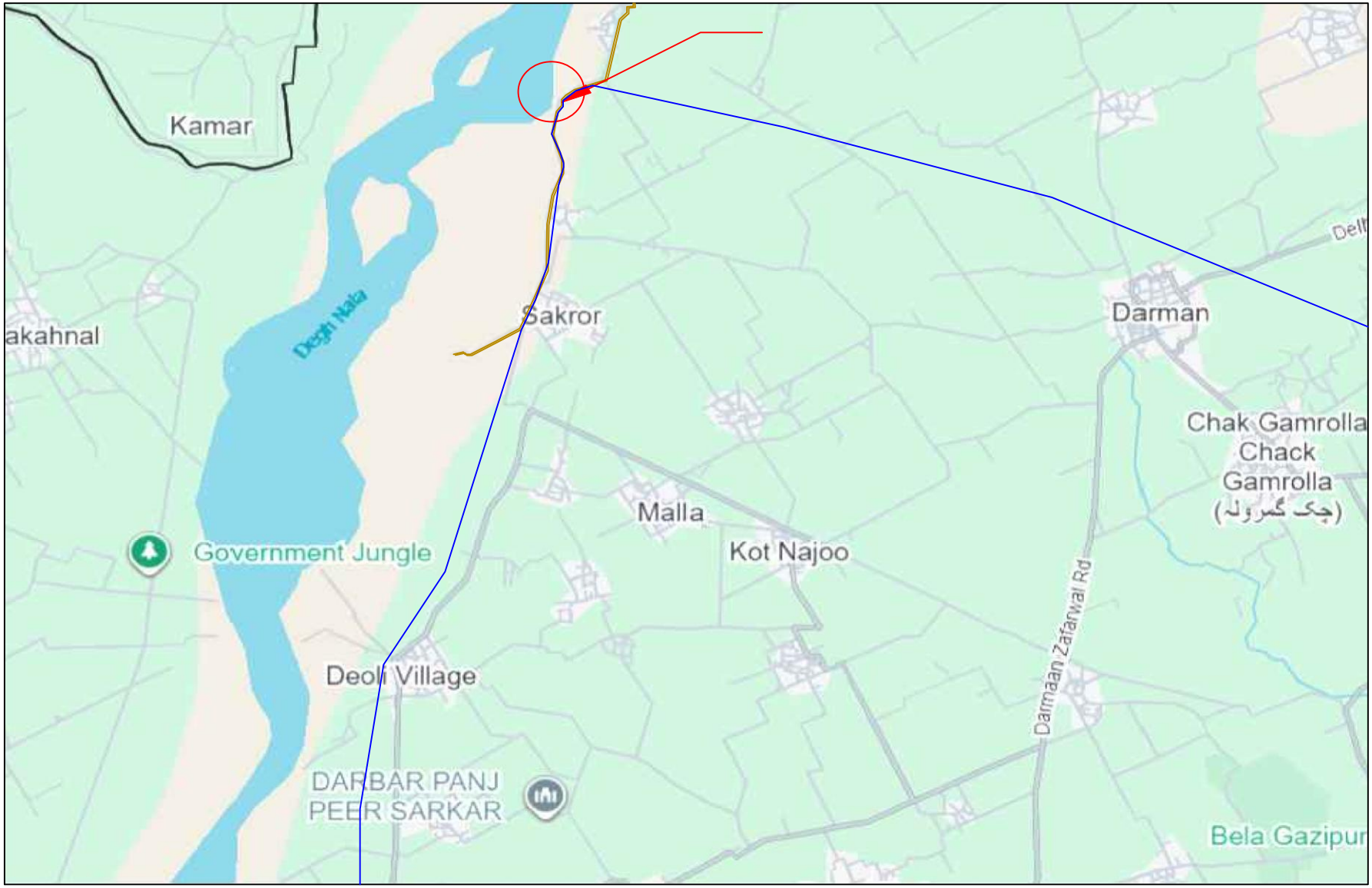
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- T.

20. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND NEAR LEHRI

20. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND NEAR LEHRI



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Sakror, Deoli Village, Malla, Kot Najoo, Darman

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.20.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High –	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	

Exceptionally	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	2	48	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	2	3	

13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	3	17	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Sakro	600	-	1	-	-	-	1
2	Deoli Village	600	-	-	1	-	-	1
3	Malla	600	-	1	-	-	-	1
4	Kot Najoo	600	-	-	-	-	-	1
5	Darman	10000	1	1	-	-	-	1
Total		**12400**	**1**	**3**	**1**	**-**	**-**	**5**

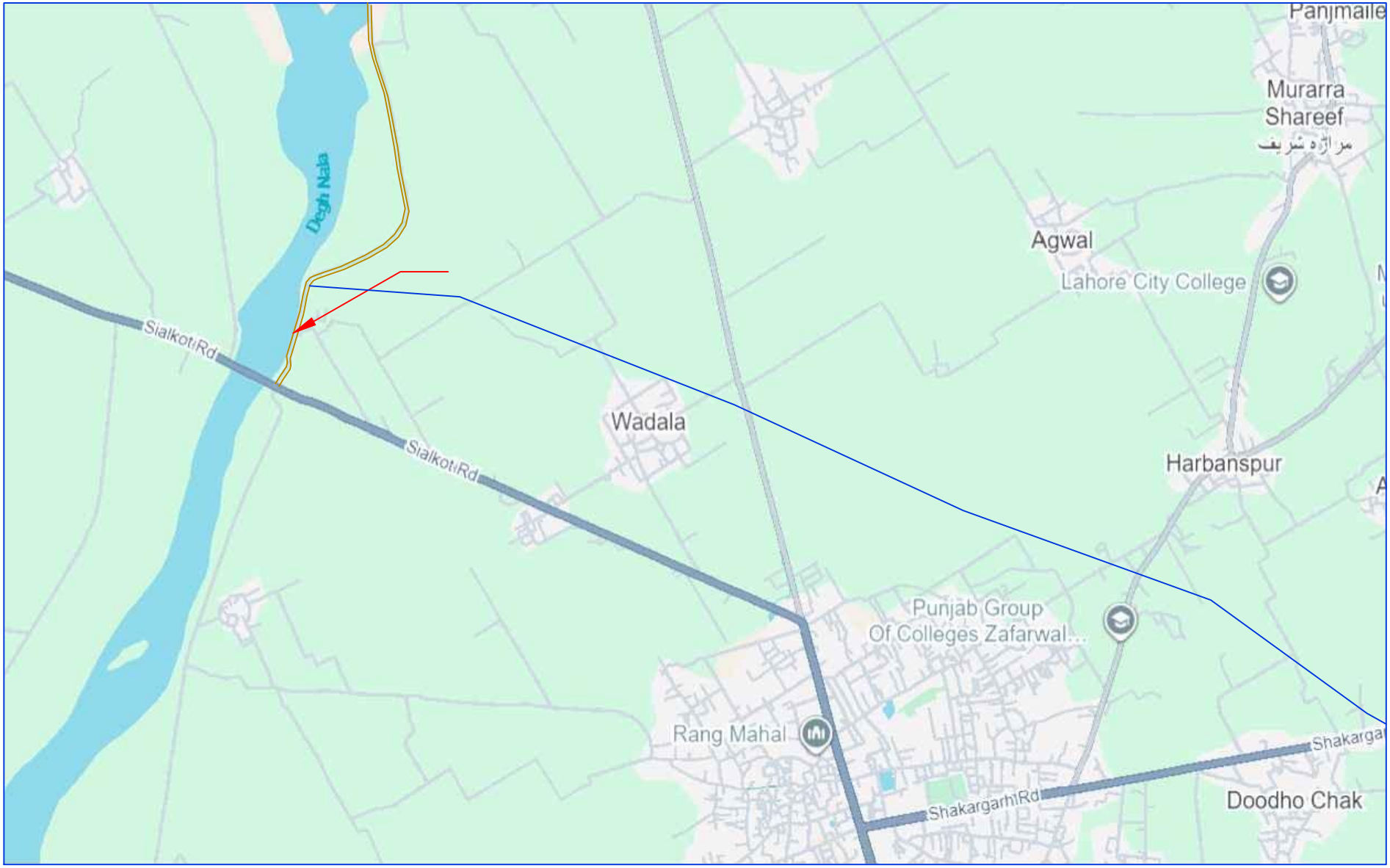
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- U.

21. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND KINGRA U/S CRITICAL REACH RD 0+000 TO 4+000/R

21 EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH KINGRA U/S CRITICAL REACH RD 0+000 TO 4+000/R



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Wadala, Zafarwal

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.21.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High –	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	

Exceptionally	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	

13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Wadala,	2000	1	1	-	-	-	1
2	Zafarwal	23000	2	2	2	-	-	1
Total		**25000**	**3**	**3**	**2**	**-**	**-**	**2**

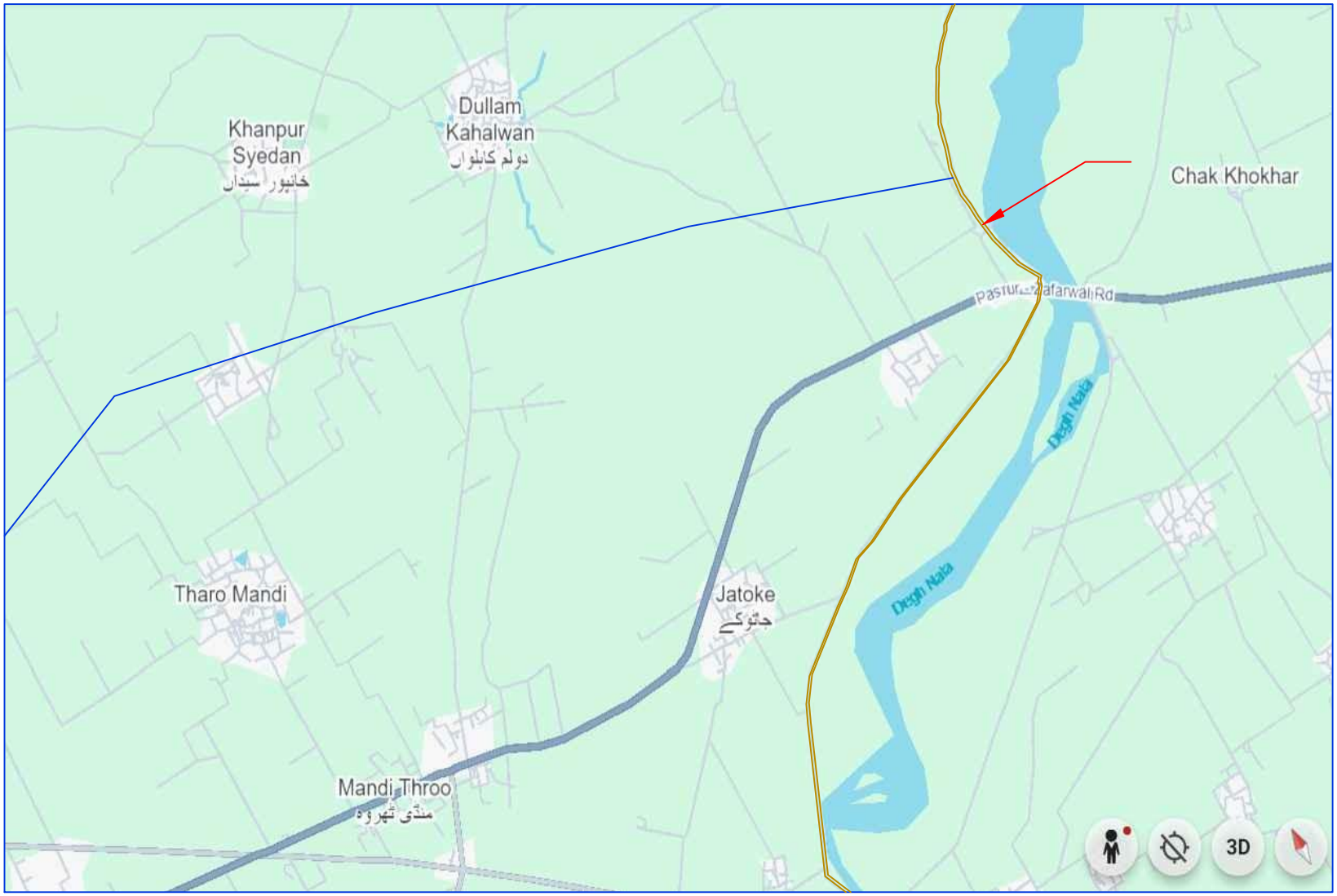
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- V.

22. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND U.S HANJLI BRIDGE CRITICAL REACH RD 13+000 TO 16+000/R

22. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND U.S HANJLI BRIDGE CRITICAL REACH RD 13+000 TO 16+000/R



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Mandi Throo, Jatoke, Tharo Mandi

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.22.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High –	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	

Exceptionally	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	

13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Mandi Throo,	2500	1	-	-	-	-	1
2	Tharo Mandi	1500	-	1	-	-	-	1
3	Jatoke	1500	1	-	-	-	-	1
Total		**22000**	**2**	**1**	**-**	**-**	**-**	**3**

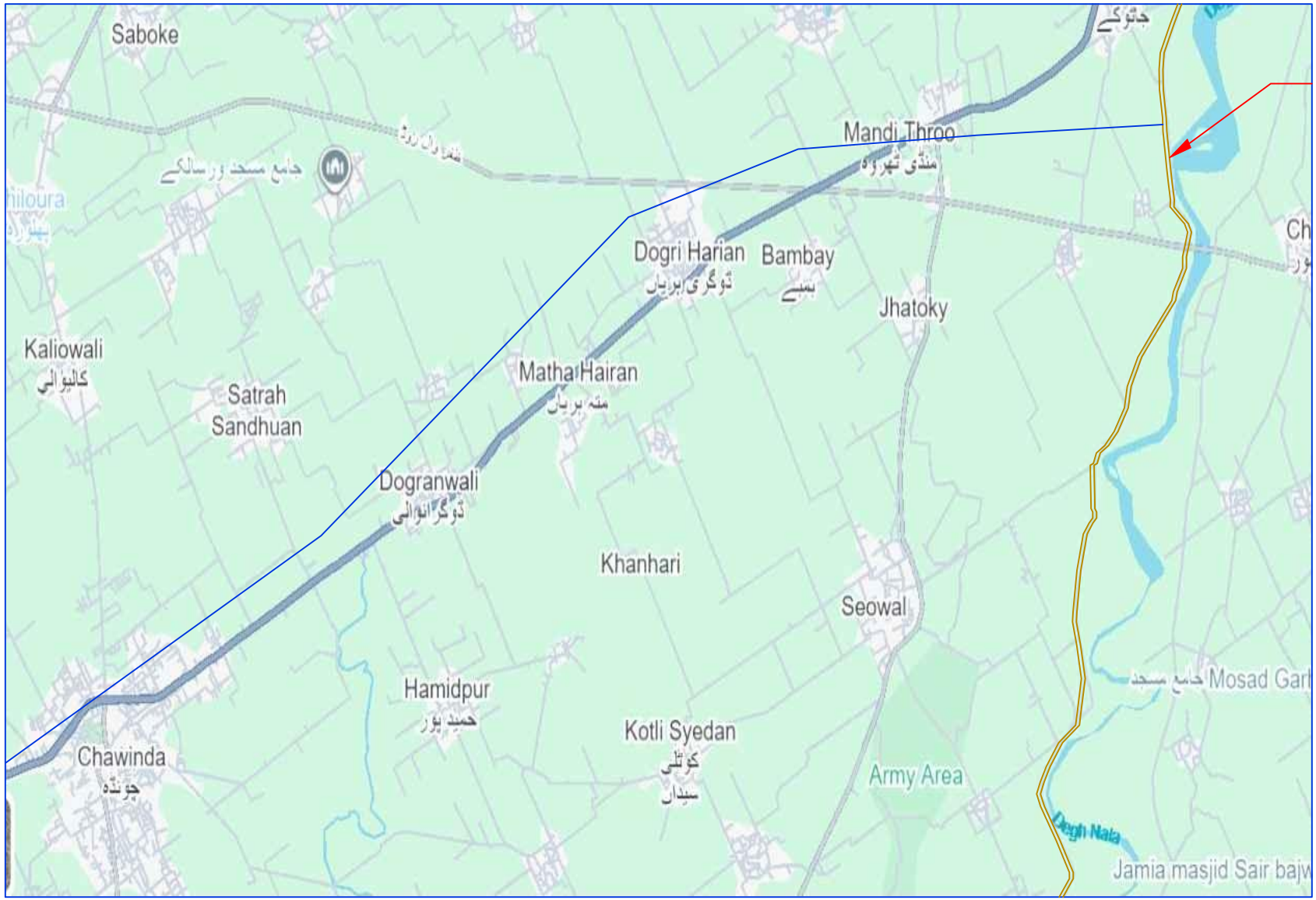
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- W.

23. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND U/S CHAHOOR RD 2+000 TO 3+000/R

23. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND U/S CHAHOOR RD 2+000 TO 3+000/R



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Mandi Throo, Jhatoky, Seowal, Kotli Syedan, Bambay, Matha Hairan, Hamidpur, Chawinda

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.23.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium –	Sub Divisional office	

High & Very High – Exceptionally	Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	

10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Mandi Throo,	2500	1	-	-	-	-	1
2	Jhatoky	500	-	-	-	-	-	1
3	Seowal	1200	-	-	1	-	-	1
4	Kotli Syedan	500	-	-	-	-	-	1
5	Bambay	300	-	-	-	-	-	1
6	Matha Hairan	300	-	-	-	-	-	1
7	Hamidpur	300	-	-	-	-	-	1
8	Chawinda	26000	1	1	1	-	-	1
Total		**31600**	**2**	**1**	**2**	**-**	**-**	**8**

CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- X.

24. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND D/S CHAHOOR CRITICAL REACH BETWEEN RD.17+000 TO 25+000/R

24. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF OF DEG NULLAH BUND D/S CHAHOOR CRITICAL REACH BETWEEN RD.17+000 TO 25+000/R



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Shahzada, Kotli Syedan, Kamalpur Bajwa, Kapurpur

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.24.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very	Sub Divisional office Muhammad Saleem Ashraf	

High – Exceptionally	0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	

12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Shahzada	2500	-	-	-	-	-	1
2	Kapurpur	500	-	-	-	-	-	1
3	Kotli Syedan	500	-	-	-	-	-	1
4	Kamalpur Bajwa	500	-	-	-	-	-	1
Total		**4000**	**-**	**-**	**-**	**-**	**-**	**4**

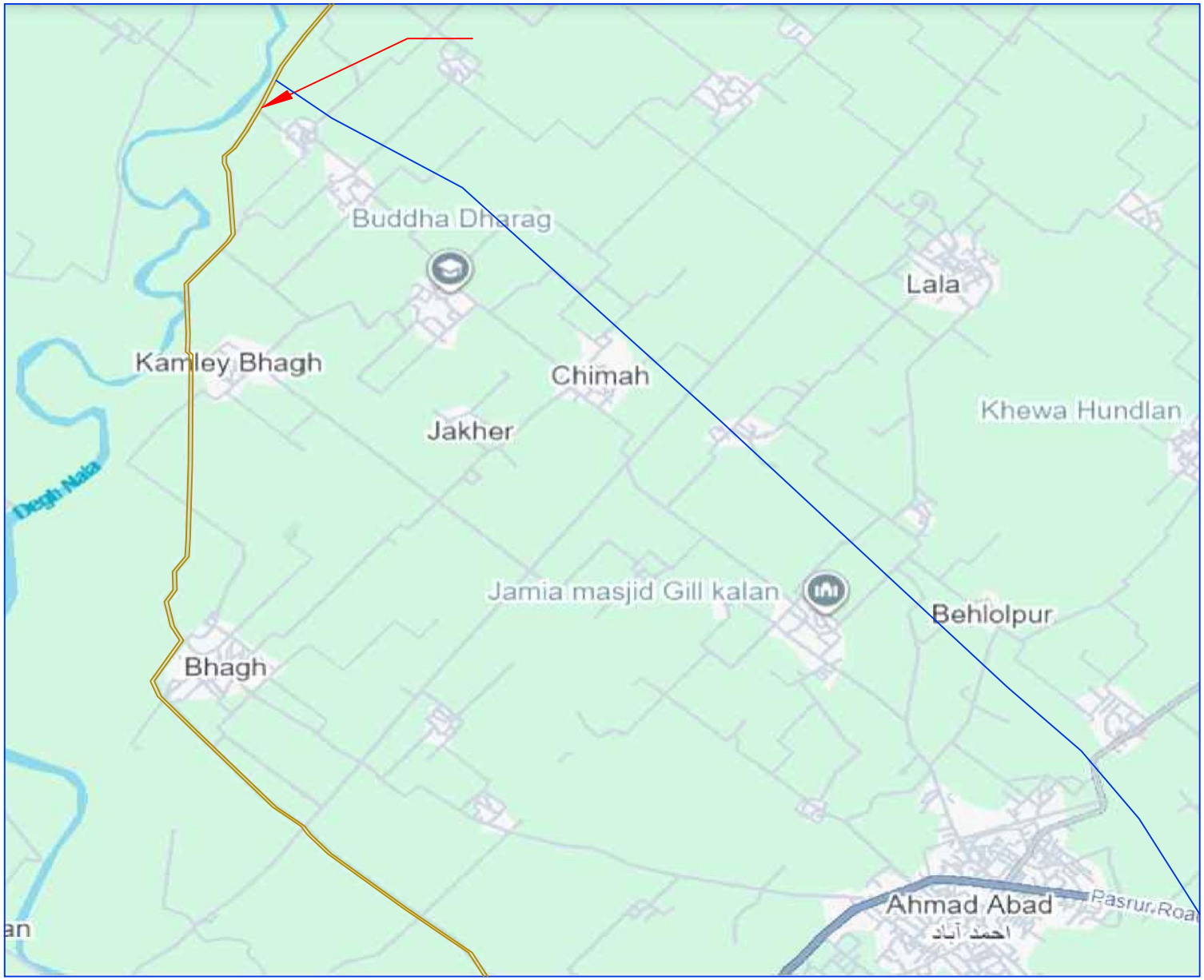
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- Y.

25. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND D/S CHAHOOR BRIDGE CRITICAL RD FROM 18+000 TO 23+000/L

25. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND D/S CHAHOOR BRIDGE CRITICAL RD FROM 18+000 TO 23+000/L



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Kamley Bhagh, Buddha Dharag, Jakher, Chimah, Bhagh

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.25.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very	Sub Divisional office Muhammad Saleem Ashraf	

High – Exceptionally	0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	

11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Kamley Bhagh	700	-	-	-	-	-	1
2	Buddha Dharag	500	-	-	-	-	-	1
3	Jakher	350	-	-	-	-	-	1
4	Chimah	400	-	-	-	-	-	1
5	Bhagh	1000	-	-	1	-	-	1
Total		**2950**	**-**	**-**	**1**	**-**	**-**	**5**

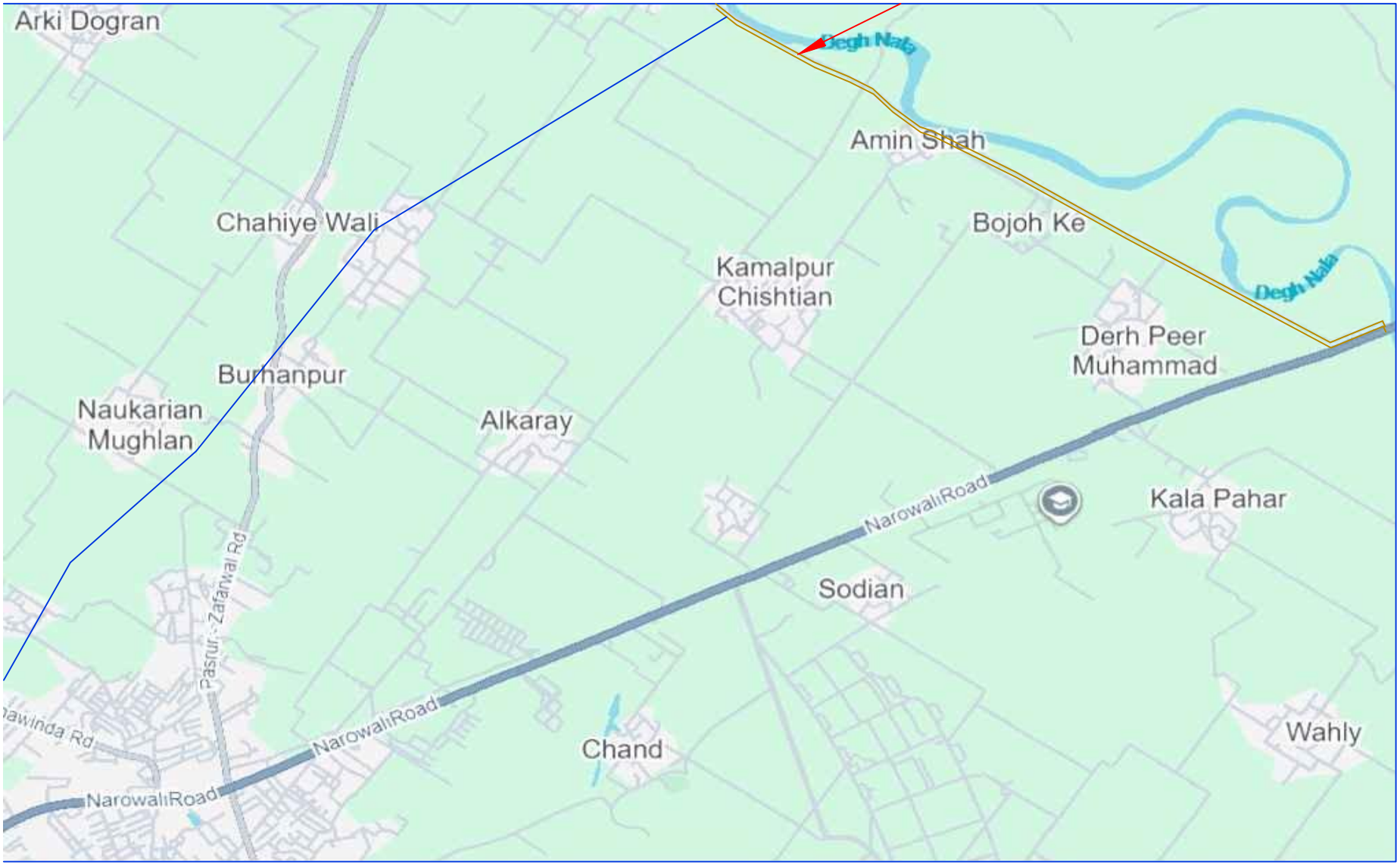
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- Z.

26. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND U/S QILLA AHMAD ABAD CRITICAL RD FROM 41+000 TO 45+000/R

26. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND U/S QILLA AHMAD ABAD CRITICAL RD FROM 41+000 TO 45+000/R



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Amin Shah, Kamalpur Chishtian, Alkaray, Bojoh Ke, Derh Pir Muhammad, Kala Pahar, Wahly, Burhanpur,

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.26.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very High –	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	

Exceptionally	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	

12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Amin Shah	400	-	-	-	-	-	1
2	Kamalpur Chishtian	800	-	-	-	-	-	1
3	Alkaray	400	-	-	-	-	-	1
4	Bojoh Ke	200	-	-	-	-	-	1
5	Derh Pir Muhammad	600	1	1	-	-	-	1
6	Kala Pahar	500	-	-	-	-	-	1
7	Wahly	500	-	-	-	-	-	1
8	Burhanpur,	1000	1	1	-	-	-	1
Total		**4400**	**2**	**2**	**-**	**-**	**-**	**8**

CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- AA.

27. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND U/S QILLA AHMAD ABAD CRITICAL RD FROM 46+000 TO 47+000/L

27. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH OF DEG NULLAH BUND U/S QILLA AHMAD ABAD CRITICAL RD FROM 46+000 TO 47+000/L



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Badiala, Ahmad Abad, Butter, Kotli Behram Khan, Narag Wali,

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.27.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very	Sub Divisional office Muhammad Saleem Ashraf	

High – Exceptionally	0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	

12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Badiala	400	1	-	-	-	-	1
2	Ahmad Abad	20000	1	-	1	-	-	1
3	Butter	400	-	-	-	-	-	1
4	Kotli Behram Khan	700	-	-	-	-	-	1
5	Narag Wa	400	1	-	-	-	-	1
Total		**21900**	**3**	**-**	**1**	**-**	**-**	**5**

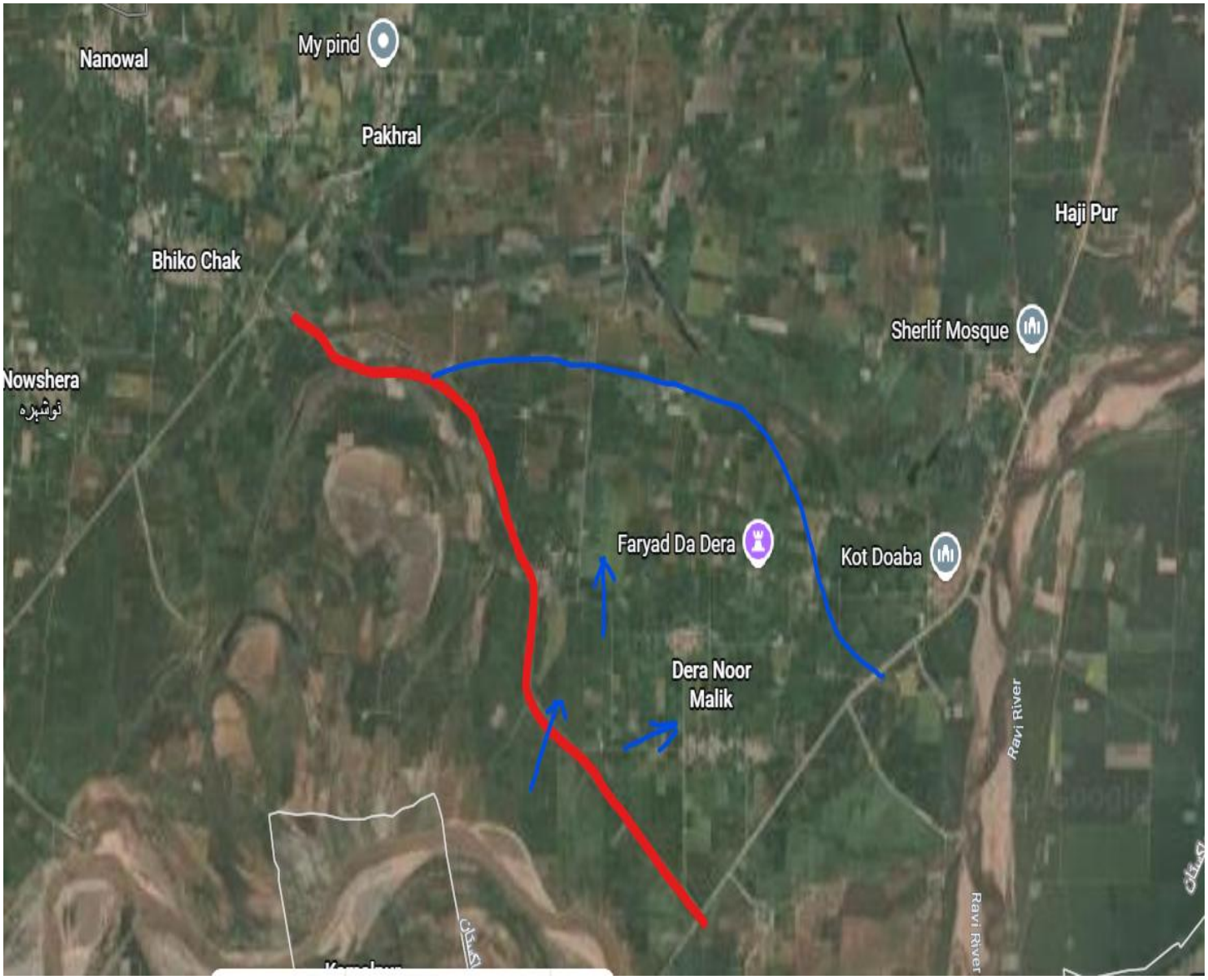
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- BB.

28. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE TIE FLOOD BUND BETWEEN RD.2+000 TO RD.4+000.

28. PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT THE TIE FLOOD BUND BETWEEN RD.2+000 TO RD.4+000.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BE AFFECTED AND THISALSO BE SHOWN ON THE PLAN

Dera Noor Malik

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.28.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low / Medium to High Flood	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	Bheco Chak Bund at 26+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700
Very High – Exceptionally	Sub Divisional office Rana Muhammad Sufyan Hakeem 0309-6898341	
	Sub Engineer Jalala Section Mr. M. Ijaz 0335-1613955	Spur at RD.13+200 of Jalala Bund
	Sub Engineer Hajipur Gujran Section Malak Sultan Ali 0347-6644986	i.Hajipur Gujran Bund at RD.8+000 ii.Spur RD.23+454 of Hajipur Gujran Bund
	Sub Engineer Bheco Chak Section Mr. Attaullah 0309-4245049	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000
	Sub Engineer Bein Section Abdul Kareem, 0301-6332951	• Chakra Flood Bund at RD.0+735 • Spur No.2 of Tie Flood Bund at RD.3+700 • Village Chak Nahra • Village Fatahpur Gujran • Village Chattri

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	
12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	

23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONE INSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK.

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Dera Noor Malik	1500	-	-	-	--	--	1
Total		**1500**	**-**	**-**	**-**	**--**	**--**	**1**

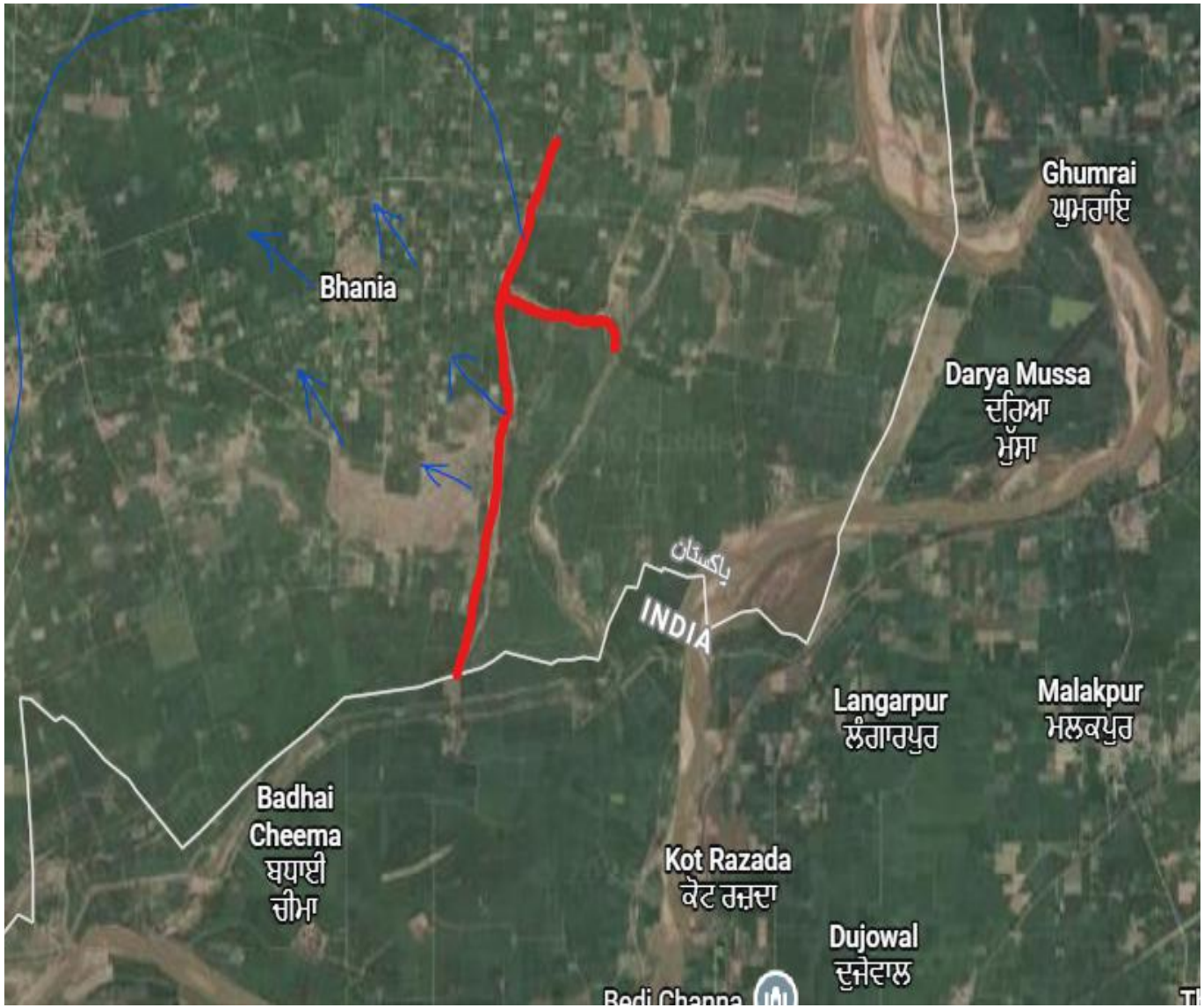
CHAPTER - 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

PLAN- CC.

29. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH MEHDI DOGAR BUND BETWEEN RD.5+000 TO RD.7+000.

29. EMERGENCY CONTINGENCY PLAN FOR VULNERABLE REACH MEHDI DOGAR BUND BETWEEN RD.5+000 TO RD.7+000.



13.2 DETAIL OF VILLAGE ABADIES LIKELY TO BEAFFECTED AND THISALSO BE SHOWN ON THE PLAN

Daud Khas, Haji wala, Bhaiia, Chaudhary China, Sahowa, Lalywali

13.3 STRATEGY AND ACTION TAKEN, EXPLAINED IN DETAIL. THIS MAYINCLUDE

The necessary repairs of the flood bund works will be carried out before start of flood season. Moreover, arrangements to establish flood camps will be ensured and deficient quantity of flood fighting material and equipment will be procured before time for watching during flood season.

13.3.1 ARRANGEMENTS.

The flood fighting material will be kept in stores which are located in the premises of Stores under the control/ custody of the Sub Engineers concerned.

13.3.2 ESTABLISHMENT OF FLOOD FIGHTING CAMPS

Flood fighting camps will be established at vulnerable location as mentioned at page No.63 under Chapter No.12 at serial No.29.

13.3.3 DUTIES OF OFFICER / OFFICIALS AND THEIR CAMP SITES

Flood Situation.	Officer/Officials on duty (Designation, Name, Cell No.)	Head quarter / Camp
Normal / Low Flood	Sub Divisional office Muhammad Saleem Ashraf 0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	At J-Spur of Jassr Bund
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.
Medium – High & Very	Sub Divisional office Muhammad Saleem Ashraf	

High – Exceptionally	0333-4974372	
	Sub Engineer Jassar Section Muhammad Afzal Khan 0300-7766587	i.At J-Spur of Jassr Bund. ii.At RD.1+000 of Basantar Nullah Bund.
	Sub Engineer Chandian Section Muhammad Arslan 03012979301	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. iii.Daud Flood Bund at RD.16+000
	Sub Engineer Rayya Section Ali Raza 0311-7572357	1. RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000
	Sub Engineer Deg Section Ali Raza 0311-7572357	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.

13.3.4 DEPARTMENTAL MACHINERY AVAILABLE

Machinery will be deployed as per deployment plan (Page No.209-211).

13.3.5 MACHINERY AVAILABLE FROM PRIVATE SOURCE.

Machinery will be arranged if required from enlisted Government Contractors.

13.3.6 FLOOD FIGHTING MATERIAL REQUIRED.
13.3.7 FLOOD FIGHTING MATERIAL AVAILABLE

Sr.	Name of Article	Total Quantity Required	Available Quantity	Balance Quantity	Remarks
1	Shouldaris/ Tent	1	0	1	The balance quantity will be procured before the onset of the Flood Season 2026
2	Chairs	6	0	6	
3	Table	1	0	1	
4	Generator (2- 3 KVA)	1	0	1	
5	Pedestal Fans	1	0	1	
6	Charpois	2	0	2	
7	Symbolic Jackets	50	0	50	
8	Polyethene Sheet	100	0	100	
9	Bamboos (4" dia and 10 ft long)	100	0	100	
10	Water Coller	1	0	1	
11	Portable Umbrella	2	0	2	

12	Life Jackets	5	0	5	
13	Utensils (10 Person serving)	1	0	1	
14	Jude / Plastic bags	1000	0	1000	
15	Walke Talkie set	2	0	2	
16	Raincats	10	0	10	
17	LED flood light	10	0	10	
18	Extension Cable (10 ft)	2	0	2	
19	Rechargeable torches	20	0	20	
20	Kassi	20	0	20	
21	Axes	20	0	20	
22	G.I Buckets	5	0	5	
23	7/44 cable	500	0	500	
24	Sutli	2	0	2	
25	Sewing Needles	10	0	10	
26	Emergency Madical Kit	1	0	1	
27	Wire creats (3x3x3) (at only those campnear river action and reserve stock exists)	100	0	100	

13.4 DETAIL OF OTHER INFRASTRUCTURE LIKE ELECTRICITY, SUI GAS, TELEPHONEINSTALLATION, ROAD NETWORK, OTHER BUILDING, CANAL AND DRAINAGE NETWORK

DETAIL OF IRRIGATION NETWORK ON RIGHT SIDE

Sr.#	Name of Channel	From RD.	To RD.
No Irrigation system/ infrastructure exists			

DETAIL OF ROAD NETWORK

Sr.#	Name of Village	Population	Detail of Infrastructure					
			Boys school	Girl school	Health Centers	Tel: Exchange	Misc:	Road
1	Daud Khas	800	-	1	--	--	--	1
2	Haji wala	500	-	-	-	--	--	1
3	Bhaiia	250	1	-	--	--	--	1
4	Chaudhary China	200	1	--	--	--	--	1
5	Sahowa	200	1	---	--	--		1
6	Lalywali	150	---	1	--	--	--	1
Total		**2200**	**3**	**2**	**---**	**0**	**0**	**6**

CHAPTER - 14

ACTION PLAN

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

If any critical situation during flood season 2026 arises then the requisite quantity of stone as per necessity will be shifted accordingly from one structure / site to another site.

14.2 DETAIL OF INLET AND OUTLET CROSSING ALONGWITH CLOSING METHODOLOGY.

No inlet & outlet exist in flood embankments.

14.3 MACHINERY, CAMP AND WATCHING ESTABLISHMENT REQUIREMENT BY FLOOD LEVEL: (NORMAL TO LOW).

Name of Section	Length in Mile	Vulnerable Reach	Site incharge Name & Cell No.	Flood Level	Flood Camp (1 per 15 mile reach)	Excavator (As per recommendation by S.E on (ii) SOPs)	Trolleys (As per recommendation by S.E on (ii) SOPs)	Dumpers	Tractor with front blade (1 per 15 mile reach)
1	2	3	4	5	6	7	8	9	10
Jalala Section	5.34	Spur at RD.13+200 of Jalala Bund	Mr. M. Ijaz 0335-1613955	Normal	1	1	4	0	1
				Low					
Hajipur Gujran Section	7.54	Spur RD.23+454 of Hajipur Gujran Bund	Malak Sultan Ali 0347-6644986	Normal	1	1	4	0	1
				Low					
Bheco Chak Section	6.1	Bheco Chak Bund at 26+000	Mr. Attaullah 0309-4245049	Normal	1	1	4	0	1
				Low					
Bein Section	4.034	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700	Abdul Kareem, 0301-6332951	Normal	2	2	8	0	2
				Low					
Jassar Section	11.72	At J-Spur of Jassr Bund.	Muhammad Afzal Khan 0300-7766587	Normal	1	1	4	0	1
				Low					
Chandian Section	11.78	i.Chandian Flood bund at RD.7+350 ii.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund.	Muhammad Arslan 03012979301	Normal	2	2	8	0	2
				Low					
Rayya Section	18.8	1.RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000	Ali Raza 0311-7572357	Normal	6	6	24	0	6
				Low					

Deg Nullah Section	36.62	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.	Ali Raza 0311-7572357	Normal Low	8	8	32	0	8
Tatle Drain	11.40	M.R Link Syphon	Ali Raza 0311-7572357	**Normal**	0	1	0	0	0
				Low	0	1	0	0	0
Total:-	**113.334**			**Normal** **Low**	**22**	**23**	**88**	**0**	**22**

Note:- Payment for machinery & work charge employees subject to verification by TPM / Departmental Committee.

14.4 MACHINERY, CAMP AND WATCHING ESTABLISHMENT REQUIREMENT BY FLOOD LEVEL: (MEDIUM TO HIGH FLOOD)

Name of Section	Length in Mile	Vulnerable Reach	Site incharge Name & Cell No.	Flood Level	Flood Camp (1 per 7 mile reach)	Excavator (1 per 7 mile reach)	Trolleys (4 per 7 mile reach)	Dumpers (2 per 7 mile reach)	Tractor with front blade (1 per 7 mile reach)
1	2	3	4	5	6	7	8	9	10
Jalala Section	5.34	Spur at RD.13+200 of Jalala Bund	Mr. M. Ijaz 0335-1613955	Medium High	1	1	4	2	1
Hajipur Gujran Section	7.54	Spur RD.23+454 of Hajipur Gujran Bund	Malak Sultan Ali 0347-6644986	Medium High	1	1	4	2	1
Bheco Chak Section	6.1	Bheco Chak Bund at 26+000	Mr. Attaullah 0309-4245049	Medium High	1	1	4	2	1
Bein Section	4.034	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700	Abdul Kareem, 0301-6332951	Medium High	2	2	8	2	2
Jassar Section	11.72	i.At J-Spur of Jassr Bund. ii. At RD.1+000 of Basantar Nullah Bund.	Muhammad Afzal Khan 0300-7766587	Medium High	2	2	8	4	2
Chandian Section	11.78	1. Chandian Flood bund at RD.7+350. 2.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. 3. Daud Flood Bund at RD.16+000	Muhammad Arslan 03012979301	Medium High	3	3	12	6	2
Raya Section	18.8	1. RD.26-27 at Pejowali	Ali Raza 03117572357	Medium	6	6	24	6	6

		2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000		High					
Deg Nullah Section	36.62	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.	Ali Raza 0311-7572357	Medium High	8	8	32	8	8
Tatle Drain	11.40	M.R Link Syphon	Ali Raza 0311-7572357	**Medium**	0	1	0	0	0
				High	0	1	0	0	0
Total:-	**113.334**			**Medium** **High**	**24**	**25**	**96**	**32**	**23**

Note:- Payment for machinery & work charge employees subject to verification by TPM / Departmental Committee.

14.5 DEPLOYMENT OF MACHINERY (VERY HIGH TO EXCEPTIONALLY HIGH FLOOD).

Name of Section	Length in Mile	Vulnerable Reach	Site incharge Name & Cell No.	Flood Level	Flood Camp (1 per 5 mile reach)	Excavator (1 per 5 mile reach / 2 per 5 mile reach)	Trolleys (4 per 7 mile reach)	Dumpers (2 per 5 mile reach)	Tractor with front blade (1 per 5 mile reach / 2 per 5 mile reach)
1	2	3	4	5	6	7	8	9	10
Jalala Section	5.34	Spur at RD.13+200 of Jalala Bund	Mr. M. Ijaz 0335-1613955	Very High	1	1	4	2	1
				Exp. High		2			2
Hajipur Gujran Section	7.54	Spur RD.23+454 of Hajipur Gujran Bund Hajipur Gujran Bund at RD.8+000	Malak Sultan Ali 0347-6644986	Very High	2	2	8	4	2
				Exp. High		4			4
Bheco Chak Section	6.1	i.Bheco Chak Bund at 26+000 ii.Bheco Chak Bund at 4+000	Mr. Attaullah 0309-4245049	Very High	2	2	8	4	2
				Exp. High		4			4
Bein Section	4.034	i.Chakra Flood Bund at RD.0+735 ii.Spur No.2 of Tie Flood Bund at RD.3+700	Abdul Kareem, 0301-6332951	Very High	5	5	20	10	4
				Exp. High		10			8

		iii.Village Chak Nahra iv.Village Fatahpur v.GujranVillage Chattri							
Jassar Section	11.72	i.At J-Spur of Jassr Bund. ii. At RD.1+000 of Basantar Nullah Bund.	Muhammad Afzal Khan 0300-7766587	Very High	2	2	8	4	2
				Exp. High		4			4
Chandian Section	11.78	1.Chandian Flood bund at RD.7+350. 2.T-Cum Hockey Spur at RD.3+000 of Mehdi Dogar Bund. 3. Daud Flood Bund at RD.16+000	Muhammad Arslan 03012979301	Very High	3	3	12	6	3
				Exp. High		6			6
Rayya Section	18.8	1.RD.26-27 at Pejowali 2.RD.52-53 near Mattakey 3.At Spur RD.65+000 4.At Spur RD.75+000 5. At Spur RD.83+000 6. At Spur RD.89+000	Ali Raza 03117572357	Very High	6	6	24	12	6
				Exp. High		12			12
Deg Nullah Section	36.62	1. At Lahri Chak Post 2.At RD.2-3 /L U/S Kingra Bridge 3.Ar RD.14-15/R U/S Hangli Bridge 4.At RD.2-3/R U/S Chahoor Bridge 5.At RD.17-18/R D/S Chahoor Bridge 6.At RD.19-20/L D/S Chahoor Bridge 7.At RD.42-43/R U/S Killa Ahmadabad Bridge 8.At RD.46-47/L U/S Killa Ahmadabad Bridge.	Ali Raza 0311-7572357	Very High	8	8	32	16	8
				Exp. High		16			16
Tatle Drain	11.40	M.R Link Syphon	Ali Raza 0311-7572357	**Medium**	0	1	0	0	0
				High	0	1	0	0	0
Total:-	**113.334**			**Very High**	**29**	**30**	**116**	**58**	**28**
				Exp. High		**59**			**56**

Note:- Payment for machinery & work charge employees subject to verification by TPM / Departmental Committee.

LIST OF LOCAL CONTRACTORS

Name of Govt. Contractor	Contact Number	Remarks
Mohammad Umer Amjad R/O village Sodian	0304-9183241	Excavators and other machinery may be made available through contractors.
M. Sarwar Babar R/O Head Marala	0346-6664838	Excavators and other machinery may be made available through contractors.

14.6 POLICE DEPLOYMENT PLAN

Proforma – 1

Sr.	Site of Breaching Section	Concerned Canal Division	Concerned Police Station and District	Police Persons Deployed		Remarks (if any)
				Inspector / Sub Inspector / A.S.I	Constable	
Not Applicable						

Proforma – 2

Sr.	Vulnerable sites used for illegal cuts during floods	Concerned Canal Division	Concerned Police Station and District	Police Persons Deployed		Remarks (if any)
				Inspector / Sub Inspector / A.S.I	Constable	
1	Jalala Bund RD 13+00 to 18+000	Narowal	Kot Nainan Police Station Distt: Narowal	ASI=1	2	--
2	Chandian dowel Bund RD 2+00 to 4+000	Narowal	Saddar Police Station Narowal Distt: Narowal	ASI=1	2	--
3	Deg Nullah RD 0+000 to RD 0+000/R	Narowal	Saddar Police Station Pasrur Distt: Sialkot	ASI=1	4	--
4	Deg Nullah RD 0+000 to RD 50+000/L	Narowal	Qila madabad Police Station Distt: Narowal	ASI=1	4	--

Proforma – 3

Sr.	Name of Barrage	Concerned Canal Division	Concerned Police Station and District	Police Persons Deployed		Remarks (if any)
				Inspector / Sub Inspector / A.S.I	Constable	
Not Applicable						

14.7. DETAIL OF SYNTHETIC BAGS WITH CAPACITY OF 500 KG AND 1000 KG.

Sr.	Synthetic Bags	Quantity Required	Available Quantity	Balance Quantity	Remarks
1.	Capacity 500 KG	500 No.	--	500 No.	Will be procured before onset of Flood Season 2026
2.	Capacity 1000 KG	100 No.	--	100 No.	

14.8 DETAIL OF POLYTHENE SHEETS OF BLACK COLOUR TO PROTECT UPSTREAM SLOPE AGAINST WAVE ACTION AND TO CONTROL SEEPAGE THROUGH EMBANKMENT.

Sr.	Polythene Sheet	Quantity Required	Available Quantity	Balance Quantity	Remarks
1.	Average 20 ft width	10000 Rft	--	10000 Rft.	Will be procured before onset of Flood Season 2026

CHAPTER - 15

BACK UP DIVISIONS

(IN CASE OF BREACH)

In case of emergency, Pasrur Link Division of Link Circle will be back-up division for River Ravi and Deg Nullah.

Executive Engineer,
Flood Bund Division,
Narowal.

Superintending Engineer,
Link Circle, Lahore

Chief Engineer
Irrigation Lahore Zone,
Lahore