



# DISTRICT DISASTER MANAGEMENT PLAN -2019

## HOWRAH

# Contents

Sl. No.	Page No.
1. Foreword .....	4
2. District overview .....	5-17
3. Hazard , Vulnerability & Capacity Analysis	
a) Seasonality of identified hazards .....	19
b) Prevalent hazards .....	20-21
c) Vulnerability concerns towards flooding .....	21-22
d) List of Vulnerable Areas (Village wise) from Flood .....	23-26
e) Map showing Flood prone areas of Howrah District .....	27
f) Inundation Map for the year 2017 .....	28
4. Institutional Arrangements	
a) Departments, Div. Commissioner & District Administration .....	30-31
b) Important contacts of Sub-division .....	32-34
c) Contact nos. of Block Dev. Officers .....	34
d) Disaster Management Set up and contact nos. of divers .....	35
e) Police Officials- Howrah Commissionerate .....	36-37
f) Police Officials –Superintendent of Police, Howrah(Rural) .....	37-39
g) Contact nos. of M.L.As / M.P.s .....	40
h) Contact nos. of office bearers of Howrah ZillapParishad .....	40
i) Contact nos. of State Level Nodal Officers .....	41
j) Health & Family welfare .....	42-44
k) Agriculture .....	45
l) Irrigation-Control Room .....	46
5. Resource analysis	
a) Identification of Infrastructures on Highlands .....	48-49
b) Status report on Govt. aided Flood Shelters & Relief Godown.....	50
c) Map-showing Govt. aided Flood shelters .....	51

d) Details of Govt. aided Flood shelters .....	52-53
e) Map & Location of Helipads .....	54-55
f) Fire Stations .....	55
g) Mobile treatment Units .....	55
h) Details of Ferry Ghats .....	57-58
i) Stock position of Drugs.....	59
j) Availability of Utility Tools .....	60-63
k) Block wise list of Boatmen .....	64-65
<b>6. Preparedness Measures .....</b>	<b>67-71</b>
<b>7. Response &amp; Relief Plan</b>	
a) Evacuation Plan .....	73-84
<b>8. Deptt. Wise Reconstruction /Rehab/Prevention/Mitigation Plans .....</b>	<b>86-87</b>
<b>9. Standard Operating Procedures (SOPs) for Deptt./Stakeholders .....</b>	<b>85-88</b>
<b>10. Annexure</b>	
a) On-site & Off-Site emergency & response Plan of IOCL, Mourigram...	91-111
b) Disaster Management Plan (Excerpts), Khargpur Div., S.E.Rly. ....	112-128
c) Name of S.K. Oil Agent & M.R. Distributors .....	129
d) List of N.G.O.s .....	130-131
e) Information on Oil terminals, Fuel stations ,heritage Buildings etc	132-136
f) Civil Defence .....	137-138
g) Images .....	139-142
h) Block wise map showing land marks & Rescue shelters .....	143-152

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### FOREWORD

The district of Howrah, situated between 22°48' N and 22°12' N latitudes and between 88°23' E and 87°50' E longitude is one of the most important districts of the state of West Bengal. Currently the State Secretariat and the Chief Minister's Office is also located in Nabanna in Howrah which has increased the importance of this district to a great extent. In view of its geographical location, presence of various rivers and streams and proximity to the coastal districts make this district vulnerable to major natural hazards, such as Floods, Cyclones and Earthquakes. Human induced disasters like Fires, Building Collapses and Road Accidents too are common.

Pre-disaster planning is an integral part of preparedness and leads towards a holistic approach to disaster management. A Disaster Management Plan focusing on hazard, risk, vulnerability and resource assessment improves the level of response following a calamity on the one hand and provides insights to link it with development initiatives, on the other.

The District Disaster Management Plan (DDMP) outlining the measures to be taken in the event of any natural or man-made disaster has been updated based on the latest concepts / developments in the field of disaster management and past experiences in the district. The DDMP is a living document and needs regular updation. The plan is prepared to help the District Administration focus quickly on the essentials should a disaster strike. All the departments in the district are requested to go through the plan and take necessary actions to be fully prepared to face any calamity. Your suggestions with regards to the DDMP are most welcome.

I wish to thank all officials who have contributed in preparation of this plan.

  
District Magistrate & Collector  
Howrah



# District Overview

## Overview of the District

The district is surrounded by the Hooghly River and the North 24 Parganas and South 24 Parganas districts on the east, on the north by the Hooghly district (Arambagh and Shrirampur sub-divisions), and on the south by Midnapore East district (Tamluk sub-division). On the west Howrah district is bordered by the Ghatal sub-division of Midnapore West district, and partly by the Arambagh sub-division of Hooghly district to the north-west, and the Tamluk sub-division of Midnapore East district to the south-west.

Boundaries of the district are naturally determined by Rupnarayan River on west and south-west, and by Bhagirathi-Hooghly river on east and south-east side. On north side, the boundary is an artificial one except for Bally Canal on north-east and Damodar River on north-west.

Howrah district has two subdivisions: Howrah Sadar and Uluberia. Howrah Sadar consists of Howrah Municipal Corporation and five community development blocks (CD blocks): Bally-Jagacha, Domjur, Panchla, Sankrail and Jagatballavpur. Uluberia subdivision consists of Uluberia Municipality and nine CD blocks: Uluberia-I, Uluberia-II, Amta-I, Amta-II, Udaynarayanpur, Bagnan-I, Bagnan-II, Shyampur-I and Shyampur-II.

Total area in Howrah District is 1467 km<sup>2</sup>. According to the **2011 census** Howrah district has a population of 4,841,638, roughly equal to the nation of Singapore or the US state of Alabama. This gives it a ranking of 23rd in India (out of a total of 640). The district has a population density of 3,300 inhabitants per square kilometre. Its population growth rate over the decade 2001-2011 was 13.31%. Howrah has a sex ratio of 935 females for every 1000 males and a literacy rate of 83.85%.

Howrah district is a multi hazard prone district. As far as vulnerability towards earth quake hazard is concerned, this district lies in Zone III. Udaynaraynpur, Amta-I & Amta-II Blocks are perennially flood prone while other parts of the districts are vulnerable to water-logging during monsoon season. In the year 2015, except for Shyampur-I & Shyampur-II Block, all other Blocks were badly affected by flooding and water logging. Though this district has no coastal area, it has moderate vulnerability towards Cyclonic storm. Howrah district is also vulnerable to road accidents, Fire accidents and Industrial accidents.

# MAP OF HOWRAH DISTRICT SHOWING THE ADMINISTRATIVE BLOCKS, GRAM PANCHAYATS, ROADS AND RAILWAY NETWORK





## Howrah at a glance

Description	Unit	Particulars
(1)	(2)	(3)
<b>Administrative Set Up:</b>		
District Head Quarters		Howrah
Sub-division		2
Police Station		25+1(1 addl women PS)
Mouza		836
Municipal Corporation		1
Municipality		2
Block		14
Panchayat Samity		14
Gram Panchayat		157
Gram Sansad		2430
<b>Area and Population:</b>		
Area	Sq. K.M.	1,467
Population	Number	48,50,029
Density of population	Per sq km.	3,306
<b>Percentage of population:</b>		
Male		51.56%
Female		48.44%
Rural		36.62%
Urban		63.38%
<b>Climate:</b>		
Annual rainfall	mm.	1350 (approx.)
Temperature: Maximum	Degree Celsius	35
Minimum	Degree Celsius	8
<b>Workers:</b>		
Total workers	Per cent	37.52
Non-workers	Per cent	62.48
<b>Educational Institutions:</b>		
Primary	Number	2091
Middle	Number	144
High	Number	174
Higher Secondary	Number	332
SSK	Number	271
MSK	Number	27
Madrasah(Under DOMA)	Number	23
General College	Number	17
University(Gen. & Tech.)	Number	1
Literates: Male	Per cent	77.69
Female	Per cent	70.76
Total	Per cent	74.33

**Area, Population and Density of population**

Sub-division/ C.D. Block /M	Area in Sq. K.M.	Population	Density per Sq. K.M.	P.C. of Population to district population
(1)	(2)	(3)	(4)	(5)
<b>Sadar Sub-Division</b>	<b>467.79</b>	<b>2798239</b>	<b>5982</b>	<b>57.7</b>
Bally Jagacha	27.96	209504	7493	4.32
Panchla	73.07	251930	3448	5.19
Sankrail	69.43	330828	4765	6.82
Domjur	104.16	377588	3625	7.79
Jagatballavpur	130.51	257941	1976	5.32
Bally Municipality	10.92	293373	26866	6.05
Howrah Municipal Corpn	51.74	1077075	20817	22.21
<b>Uluberia Sub-Division</b>	<b>999.21</b>	<b>2051874</b>	<b>24833</b>	<b>42.38</b>
Uluberia-I	103.38	214399	2074	4.43
Uluberia-II	69.87	191369	2739	3.95
Shyampur-	138.05	205809	1491	4.25
Shyampur-II	106.96	195992	1832	4.05
Bagnan-I	86.67	223194	2575	4.61
Bagnan-II	86.65	164373	1897	3.39
Amta-I	123.91	223261	1802	4.61
Amta-II	141.33	208150	1473	4.30
Udaynarayanpur	109.80	190062	1731	3.93
Uluberia Municipality	32.59	235265	7219	4.86
<b>District Total 2011</b>	<b>1467.00</b>	<b>4841627</b>	<b>5507</b>	<b>100</b>
<b>2001</b>	<b>1467.00</b>	<b>4273099</b>	<b>2913</b>	<b>100</b>

Source: Census of India, 2001& 2011

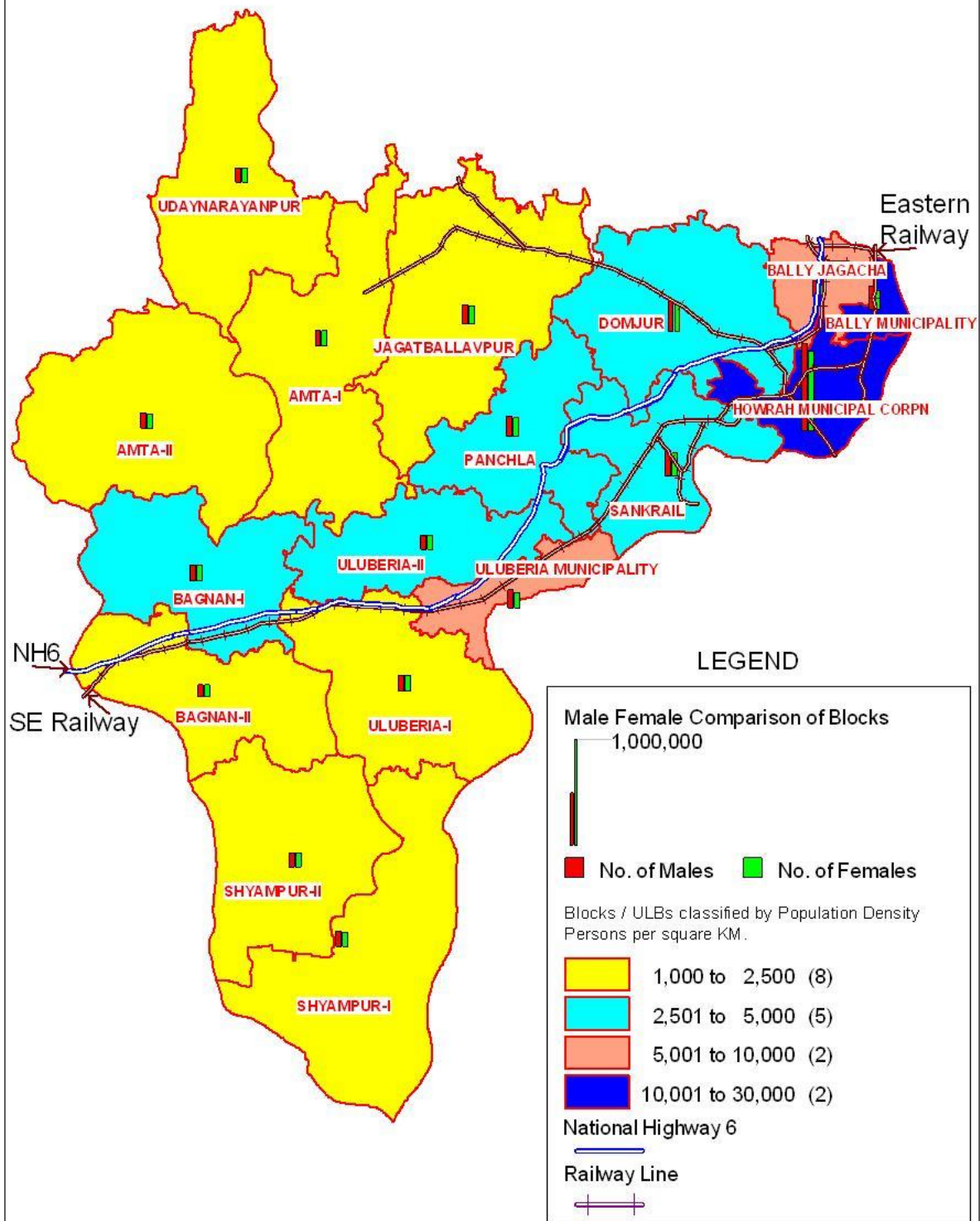
**Scheduled Castes and Scheduled Tribes population by sex**

Sub-division/ CD Block /M	Scheduled Castes			Scheduled Tribes		
	Male	Female	Total	Male	Female	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Sadar Sub- Division</b>	<b>161582</b>	<b>154609</b>	<b>316191</b>	<b>6227</b>	<b>5891</b>	<b>12118</b>
Bally Jagacha	15849	14766	30615	946	877	1823
Panchla	22705	21770	44475	45	30	75
Sankrail	39303	37606	76909	639	630	1269
Domjur	32714	32488	65202	769	818	1587
Jagatballavpur	28911	27893	56804	1385	1292	2677
Bally Municipality	3811	3350	7161	708	640	1348
Howrah Municipal Corp.	18289	16736	35025	1735	1604	3339
<b>Uluberia Sub-Division</b>	<b>205184</b>	<b>197027</b>	<b>402211</b>	<b>1532</b>	<b>1441</b>	<b>2973</b>
Uluberia-I	24148	23323	47471	88	69	157
Uluberia-II	29265	28406	57671	47	33	80
Shyampur-I	19114	18386	37500	164	161	325
Shyampur-II	11785	11270	23055	55	54	109
Bagnan-I	16086	15389	31475	131	130	261
Bagnan-II	8768	8573	17341	398	395	793
Amta-I	33728	32318	66046	178	159	337
Amta-II	26058	24710	50768	154	128	282
Udaynarayanpur	20039	19364	39403	188	179	367
Uluberia Municipality	16193	15288	31481	129	133	262
District:						
<b>Total</b>	<b>367053</b>	<b>351898</b>	<b>718951</b>	<b>7761</b>	<b>7333</b>	<b>15094</b>
<b>Rural</b>	<b>207531</b>	<b>200284</b>	<b>407815</b>	<b>2075</b>	<b>1950</b>	<b>4025</b>
<b>Urban</b>	<b>159522</b>	<b>151614</b>	<b>311136</b>	<b>5686</b>	<b>5383</b>	<b>11069</b>

Source: Census of India, 2011

MAP OF HOWRAH DISTRICT SHOWING THE  
BLOCKS / ULBs CATEGORISED BY POPULATION DENSITY  
AND MALE FEMALE COMPARISON

NORTH





### Number of General Educational Institutions by type

Type of Institution	Number
(1)	(2)
<b>1. GENERAL RECOGNISED SCHOOLS</b>	<b>2091</b>
(I) Recognized <b>Primary Schools</b> under the control or of the type of (a) D.I.(Primary + Junior Basic) (b) Municipalities/Corporation/Local Bodies etc.	2082 09
(II) Recognized <b>Middle Schools</b> under the control of or of the type of (a) D.I.(Secondary) (b) Junior Madrasahs	<b>144</b> 141 3
(III) Recognized <b>High Schools</b> under the control of or of the type of (a) D.I. (Secondary) (b) High Madrasahs	<b>174</b> 166 8
(IV) Recognized <b>Higher Secondary Schools</b> under the control of or of the type of (a) General Stream (including independent H.S.School) (b) Senior Madrasahs	<b>332</b> 312 20
<b>2. GENERAL DEGREE COLLEGES</b>	17
<b>3. GENERAL UNIVERSITIES</b> (excluding completely Technical Universities)	--
<b>4. CENTRES OF OPEN UNIVERSITIES</b>	4

### Special and Non-formal Educational Institutions

Sl.No.	Type of Institutions	Number
(1)	(2)	(3)
1.	Shishu Shiksha Kendras (P & RD)	271
2.	Madhyamik Shiksha Kendras (P & RD)	27
3.	Madrasah Shiksha Kendra	23
4.	Educational Institutions for the Blind & other Physically & Mentally Handicapped	4
5.	Anganwari (Education) Centres under ICDS	4267
6.	Reformatory or certified Institutions or Welfare Homes under Social Welfare Department for the Juveniles or destitute children or the children of red-light areas	Govt. Home-01 NGO (certified)-15
<b>Total</b>		

**Percentage of Literacy by sex in rural and urban areas**

<b>Sub-division / C.D. Block / M</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>
<b>Sadar Sub- division</b>	<b>75.09</b>	<b>78.08</b>	<b>71.9</b>
Sankrail	74.13	77.16	70.94
Panchla	68.93	72.39	65.29
Domjur	72.29	74.82	69.66
Jagatballavpur	70.04	74.08	65.79
Bally Jagacha	79.41	82.49	76.13
Bally Municipality	79.66	82.26	76.68
Howrah Municipal Corp.	81.19	83.39	78.79
<b>Uluberia Sub-Division</b>	<b>71.08</b>	<b>75.2</b>	<b>66.74</b>
Uluberia-I	66.82	70.67	62.82
Uluberia-II	67.6	71.6	63.44
Shyampur-I	70.17	74.72	65.46
Shyampur-II	70.96	75.15	66.57
Bagnan-I	74.28	77.75	70.6
Bagnan-II	73.02	76.91	68.89
Amta-I	72.37	76.83	67.68
Amta-II	72.16	76.89	67.13
Udaynarayanpur	72.89	77.77	67.72
Uluberia Municipality	70.51	73.74	67.12

1	Agricultural, Industrial & Other laborers	---	a) Total main workers :- 10,65,322
			i) Cultivator :- 1,14,288
			ii) Agricultural laborer:- 1,57,253
			iii) Industrial laborer :- 38,647
			iv) Other laborer:- 7,55,107
			b) Marginal worker:- 20,115
2	B.P.L. families out of total family	---	c) Non-workers:-26,44,207
		---	2,11,536 families
		---	Nil
		---	287 Hec
		---	Temperature :
3	Area under forest		Maximum:-32 <sup>0</sup> C
			Minimum:-10 <sup>0</sup> C
			Latitude:- 22 <sup>0</sup> 12 N to 22 <sup>0</sup> 48 N
			Longitude :- 87 <sup>0</sup> 37 E to 88 <sup>0</sup> 30 E
4	Area under major crops		
5	Misc		
6	Land utilized data	---	a) Net cropped area 85188 ha
			b) Distribution of operational holding

		i)	Area under marginal holding: 81880 ha
		ii)	Area under small holding : 26669
		iii)	Area under semi-medium holding : 11994
		iv)	Area under medium holding: - 1063 ha
		v)	Area under large holding : - 185 ha
		vi)	Total area under holding : - 1,21,791 ha
7	Instigated Profile :	---	a) Tunnel :- 8.17
			b) Wells :- 4.17
			c) Deep tube well :- 133
			d) R.L.I.:-127
			e) Shallow tube wells :- 125
8	Animal Resources:	---	a) Cattle : 3,39,381
			b) Buffalo: 10,614
			c) Sheep:- 593
			d) Goat:- 1,87,852
			e) Pig :- 978
			f) Poultry & ducks :- 13,87,405
9	Veterinary set-up:	---	a) S.A.A.C-3
			b) B.A.H.C.-14
			c) A. B.A.H.C-11
			d) A.D.A.C.-137
			A.I.catr-140
10	Health facilities:	---	a) No of Hospital-23
			b) No of Health center-57
			c) No of Clinic-86
			d) No of Dispenseries-31
			No of total beds-3317
11	Other:	---	a) Post Office-344
			b) No of Telegraph Office-63
12	Roads:	---	Length of national Highway – 62.43 Km.
			a) Length of State Highway-21 Km
			b) Length of District Road-225 Km
			c) Length of Village Road-232 Km
			d) Length of un-surfaced Road-1046Km



13 Roads Maintained by HZP

--- a) Surface road-498.72 Km  
Un-Surface road-948.08 Km.

14. LAND USE PATTERN ('000 ha) :

• **INFORMATION ON LAND USE PATTERN IN THE HOWRAH DISTRICT**

**[USE AREA IN HECTARE (HA), CROPPING INTENSITY IN PER CENT (%) OF HOWRAH DISTRICT]**

<b>Land Use Class</b>	<b>Land use category</b>	<b>Area in ha</b>
A	Reporting area	1,38,676
X 1	Forest area	0
X 2	Area under Non-Agril. Use	49,672
X 3	Barren & Unculturable Land	116
X 4	Permanent Pasture & Other Grazing Land	19
X 5	Land under Misc. Tree Crops & Groves not included in Net Area Sown	1,081
X 6	Cultural Waste Land	60
X 7	Fallow Land other than Current Fallow	234
X 8	Current Fallow	5,308
X 9	Net Area Sown	82,130
B	Cultivable Area	88,869
C	Gross cultivated Area	1,64,019
D	Cropping Intensity (%)	199.57

### 15. Rainfall pattern :

Rainfall (Av. of 10 years)	Normal	Onset	Cessation	Max. Rainfall Recorded			
				Year	Date	Amount of Rainfall (mm)	Venue
SW Monsoon (June-Sep)	1095.4	1 <sup>st</sup> .wk. of June	4 <sup>th</sup> . Wk, of Sep.	2012	5.9.12	115.4	B.S.F, Shyampur-II
NE Monsoon (Oct-Dec)	202.7			2013	28.7.13	150.2	B.S.F, Shyampur-II
Winter (Jan-Mar)	71.2			2014	21.9.14	122.4	B.S.F, Shyampur-II
Summer (Apr-May)	161.2			2015	29.7.15	232.8	SARF, Uluberia
Total Annual	1530.5			2016	11.8.16	124.2	B.S.F, Shyampur-II
				2017	20.6.17	165.20	B.S.F,Udaynarayanpur
				2018	02.06.18	132.40	B.S.F, Shyampur-II

### 16. **River Gauge :**

**Five nos. River Gauges are situated at the following locations :**

Sl. No.	River	Location	D.L. (in M GTS)	E.D.L. (in M GTS)	Recorded H.F.L. (in M GTS)
1	Amta Channel related to River Damodar	Amta	5.64 M	6.24 M	8.08 M on 29.09.1978
2	Hurhura Khal related to river Mundeswari	Muchighata	6.16 M	6.77 M	8.68 M on 28.07.17
4	Rupnarayan	Buxi	4.11 M	5.54 M	6.40 M in 1978
5	Hugly	Sarenga	4.87 M	5.48 M	5.09 M on 04.10.78

## 17. Coverage of Major Kharif Crops in Howrah District

Crop	Normal Area (ha)	Target Area (ha)	Last Year (up to corresponding period) (ha)	This year (Till Date) (ha)
Autumn Rice (Trans.)	1200	1200	1160	1110
Autumn Rice Seed bed	120	120	118	118
Winter Rice (Trans.)	66000	66500	63250	63199
Winter Rice Seed bed	6615	6700	6733	6741
<b>Total Kharif Rice</b>	<b>67200</b>	<b>67700</b>	<b>64410</b>	<b>64309</b>
Arhar	15	25	42	34
Jute	2400	2500	2244	2246
Ol (Elephant Foot)	120	125	89	92
Arum	435	435	309	310
Turmeric	110	110	93	88
Ginger	36	40	31	35
Vegetables (Kharif)	3910	4100	3910	3885
Chilli (Rabi)	112	112	124	114
Sugar Cane	282	290	239	241



### 18. Coverage of Major Rabi & Rabi- Summer Crops in Howrah District

Crop	Normal Area (ha)	Target Area (ha)	Last Year (up to corresponding period) (ha)	This year (Till Date) (ha)
Summer Rice	33820	35000	33480	33485
Summer Rice Seed bed	3100	3300	3516	3521
Wheat	1188	1200	298	293
Rape / Mustard	2212	2300	2327	2210
Linseed	75	80	45	35
Sunflower	50	60	88	52
Khesari	2048	2400	1748	2053
Lentil	130	135	181	162
Rabi Veg	7040	7100	6850	6940
Rabi Chilli	203	210	232	200
Potato	5747	6000	6024	5975

### Images of Agricultural Damages during Previous Flood.



# **Hazard, Vulnerability & Capacity Analysis**

## Hazard , Vulnerability & Capacity Analysis

Hazard vulnerability & Capacity analysis is the most important part of the plan as the entire planning process will be based on its outcome. Any error in identifying the frequency, magnitude and projected impact leads to erroneous identification of major hazard and hence an erroneous plan. The necessary outcomes of the HRV analysis should be the type of hazards that the district is prone to, history of hazards, impact analysis of the worst case, the area, people and infrastructure that is prone to the risk of these hazards and their vulnerability of being damaged by such disasters due to their vulnerability characteristics. Vulnerability Assessment should deal with the socio-economic vulnerability, housing vulnerability and environmental vulnerability. HRV analysis should also include resource inventory/capacity analysis, preparedness analysis in terms of network of communication systems, public distribution systems, storage facilities, transportation facilities, medical facilities, fire stations, cyclone shelters with their capacity, presence of NGOs and other volunteers etc so as to enable quick response.

### Seasonality of Identified Hazard :-

Type of Hazard	Jan - Mar				Apr - Jun				Jul - Sep				Oct-Dec			
	H	C	A	I	H	C	A	I	H	C	A	I	H	C	A	I
Cyclone	-	-	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Flood	-	-	-	-	-	-	-	-	Y	Y	Y	Y				
Drought	-	-	-	-	Y	Y	-	-	-	-	-	-				
Earthquake	Y	-	Y	Y	Y	-	Y	Y	Y	-	Y	Y	Y	-	Y	Y
Sun Stroke	-	-	-	-	Y	-	-	-	-	-	-	-				-
Boat Capsize	Y	-	-	-	Y	-	-	-	Y	-	-	-	Y			-
Lightening	-	-	-	-	Y	-	Y	-	Y	-	Y	-	Y		Y	-
Fire Accident	Y	-		Y	Y			Y	Y		Y		Y		Y	-
Road Accident	Y	-		-	Y	-	-	-	Y	-	-	-	Y	-	-	-
Chemical accident	Y		Y		Y	Y			Y	Y			Y	Y		

**Note : H- Human, C-Crop, A-Animals, I-Infrastructure, Y-Yes.**

## Prevalent hazards:

**Flood :** In view of its geographical location, presence of various rivers and streams vulnerable to major natural hazards, such as Floods. Howrah District is surrounded on three sides by three major rivers, namely Hooghly River, Mundeswari River and Rupnarayan River. There is also one important arterial river named Damodar significant both with respect to irrigation as well as flood. In addition there are so many khals and channel like, Howrah Drainage Channel, Mahishdhara khal, Barjola khal, Rajapur khal, Medinipur Main khal, Champa khal, Rampur khal, Gaighata khal etc. which play very important role in respect of flood and irrigation purpose. Besides the above, other small rivers like Saraswati, Maza Damodar, Kana Damodar etc. serves drainage purpose in the district. Total length of embankment/channel under Howrah Irrigation Division in Howrah District is 826 km. This makes Udaynaraynpur , Amta-I & Amta-II Dev. Block prevalently flood prone. Flood generally occurs during the month of late August to early part of the month of October. Besides flooding water logging is a major hazard in the other Blocks and Municipal / Corporation areas. Congestion in drainage channels and unplanned growth has exacerbated the problems to a great extent. Floods during the year 1978, 2000, 2015 played havoc on the lives and properties.

**Cyclone :** Cyclones are one of the natural hazards that affect district of Howrah almost every year causing major disruption in lives and properties. Tropical Cyclone (TC), also known as 'Cyclone', is the term used globally to cover tropical weather systems in which winds equal or exceed the minimum of 34 knot (62 kmph). Hazards associated with tropical cyclones are long duration rotatory high velocity winds, very heavy rain. Howrah , being adjacent to Coastal district of Purba Medinipur & South 24 parganas, two of the most Cyclone prone district , gets periodically affected from Cyclone Hazard. As a result of incessant rainfall and high wind almost every blocks/ municipality/Corporations get affected from water-logging.

**Earthquake :** As per seismic hazard map the district of Howrah , lies in Zone III, which comes under Moderate risk zone (MSK VII).

**Road Accident :** Total road length in Howrah is approximately 300 km. One of the most important road is the Grand Trunk Road which starts from Indian Botanical Gardens in Howrah. This road was built by the Public Works Department of the British administration. Operational from the 1990s, the roads connecting to Vidyasagar Setu from various locations have added up to the road space of Howrah. The most important one is 8 km long Kona Expressway, which was built by Kolkata Metropolitan Development Authority (KMDA). This road serves as a connector of Kolkata (via Vidyasagar Setu) to National Highway 2 (India) (NH 2) and hence is part of Golden Quadrilateral project. At Nibra town of the Howrah district, Kona Expressway joins with National

Highway 6 (India) (NH 6) as well. With massive urbanization and voluminous increase in no. of vehicular traffic road accident is a potent hazard to lives of common people. **During last 2(Two) yrs. 1817 road accidents resulted in 766 deaths & 1148 injuries in Howrah Districts.**

**Fire / Chemical Accident :** The district has a population density of 3,300 inhabitants per square kilometre . Its population growth rate over the decade 2001-2011 was 13.31%. With lot of commercial establishments (Workshops/Factories) under Howrah Municipal Corporation Area and its surrounding areas and large population density, the district of Howrah is highly prone to Fire /Chemical hazards. In some cases, blatant disregard for precautionary safety measures only increases the potency of this hazard.

**Vulnerability concerns towards flooding:** Udaynaraynpur ,Amta-I, Amta-II blocks under this district are mainly vulnerable to flood hazard. **Some major point of concerns are as follows ;**

Sl. No.	Name of River	Name of Block/ Muni./P.S	Name of G.P./Location	Remarks
1.	Hugly Right Embankment	Howrah Municipal Corp.	Shalimar, Ghosuri	
		Sankrail	near Sankrail Thana office, Bauria near Ferry-ghat, Rajgunj	
		Shyampur-I	Belari	
2.	River Rupnarayan [Left Embankment]	Shyampur-I	Keoratala	
		Bagnan-I	Paschim Mankur	
		Amta-II	Ghatpara, Dharapara	
3.	River Damodar [Right (dwarf) Embankment]	U.N Pur	Kultikuri, Barda, Hanidhara Ferry ghat, Gholia, Masjidtala, Hodal, Hariharpur, Jangalpara, Kumarchak, Shibaniapur, Akna, Thakurani Chak, Monsuka, Shimultala	Absence of any embankment at the right side result in repeated spilling of bank leading to inundation in Unpur & Amta-II during passage of high discharge thru. DVC system.
4.	River Damodar [Left Embankment]	U.N.Pur	Paliara, Gouranga Chak, Khila, Mallik Chak, and Narikelberi	

Sl. No.	Name of River	Name of Block/ Muni./P.S	Name of G.P./ Location	Remarks
5.	River Damodar [Right Embankment]	Amta-I	Dayarmansatala, Rashpur, Bhojan Ferry ghat, Deora	
6.	Maja Damodar	U.N.Pur	Bhabanipur Bazar	
7.	Gaighata Khal	Amta-II	Bankura	
8.	Kana Damodar Left bank	Jagatballavpur	Dakshin bundh, Telihati, Nilkuthi, Jhingra, Machal	Areas under close monitoring
		Panchla	Haulibagan	

**Points to be mentioned :**

- At Palaspai, Muchighata over Hurhura Khal Hooghly Zilla Parisad constructing a bridge by putting cross bundh over the khal. Which should be removed before 07.06.2018 & their construction work the left bank of Hurhura Khal at its down stream would become inaccessible, causing hindrance for monitoring of flood embankments.
- Provision of HP culvert below left bank approach of Bokpota Bridge need to be given to allow sheet flow over berm land similar to preconstruction stage of the bridge.

**LIST OF VULNERABLE AREAS TO FLOODING (VILLAGES) SUB-DIVISION WISE**

Sl.No	Block	G.P.	Vulnerable Areas
<b>ULUBERIA SUB-DIVISION</b>			
<b>1</b>	<b>Udaynarayanpur</b>	RDA G.P.	1. Rampur
			2. Dehi Bhursut
			3 Asanda
			4. Ghola
			5. Harali
			6. D.Rampur
			7. Baria-Kurchi
			8. Siatpur
			9. Pratapchak
			10. Sultanpur
		Kurchi Shibpur G.P.	11. Harishpur
			12. Kurchi Binodbati
			13. Jangalpara
			14. Gangapart
			15. Shibpur Part
			16. Jangalpara Belgram
		Singti	17. Rajapur
			18. Jonka
			19. Akna
			20. Kumrimora
			21. Jagaldaha
		Debipur	22. Abhirampur
			23. Debipur
			24. Raichak
			25. D. Singti
			26. Uttar Manasree
			27. D. Manasree
		Pancharul	28. Subalchak
			29. Kankrapota
			30. Uttarharishpur
			31. Pancharul
		Kanupat Monsuka	32. Monsuka
			33. Chak Baharampur
			34. Kanupat
			35. Kismat Kanupat
			36. Kalikapur
		G.B.Sonatola	37. Chandchak
			38. Gumgarh
			39. Garh Bhabanipur
			40. Kumarchak
			41. Kansona
		B.B.Pur	42. Bidhichandrapur
			43. Raghunathpur
			44. Pratapnarayanpur
			45. Kultikari
			46. Bajepurat
			47. Chitrasenpur
			48. Bhabanipur
		Khila	49. Nimdangi
			50. Pliara
			51. Kamalchak Part
			52. Narikelberia

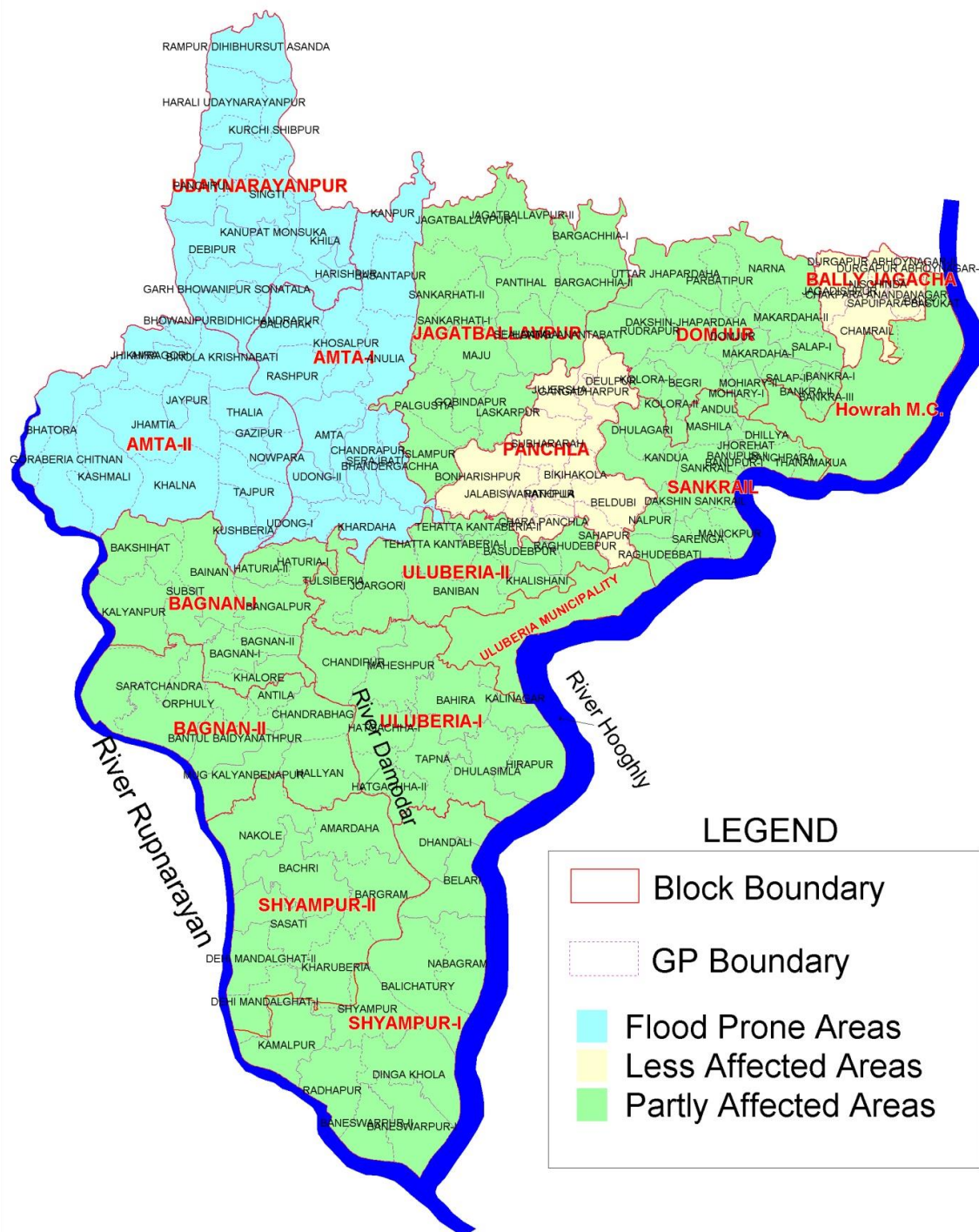


	Udaynarayanpur	Harishpur	53. Krishnachak
			54. Nayarkhan
			55. Pera Harishpur
2	Amta - I	Balichak	1. Balichak
			2. Dhurkhali
			3. Banuchak
			4. Kharia
			5. Saibona
			6. Purba Baje Pratap
			7. Bagua Village
			8. Bhujan
			9. Sarpai
		Rashpur	1. Rashpur
			2. Kalikata
			3. Kumaria
			4. Someswar
			5. Putkhali
			6. Chakpota
			7. Kotalpara
		Kanpur	1. Kanpur
			2. Manikura
			3. Purash
		Basantapur	1. Vetkepara
			2. Habla
			3. Basantapur
			4. Pearapur
		Anulia	1. Kandua
			2. Anulia
			3. Debandi
			4. Baneswarpur
			5. Ramchandrapur (2 <sup>nd</sup> part)
		Serajbati	1. Mandaria
			2. Serajbati
		Amta	1. Damodor Nadir Char
		Udang - I	1. Khasnan
		Udang - II	1. Deora
			2. Ranapara
			3. Purba Gazipur
3	Amta - II	Khushberia	1. Sitachak
			2. Bankura
		Tajpur	3. Mahisamuri
			4. Khariop
		Gozipur	5. Majer Chara
		B.K. Bati	6. Thalia Bazar
			7. Binola
		G.B.Chitnan	8. Chitnan
			9. Ghoraberia
		Bhatora	10. Bhatora
		G.B.Chitnan	11. G.B. Chitnan
		Kasmali	12. Takipara
		Kushberia, Tajpur	13. Sarada
			14. Kushberia
		Khalna	15. Tegachia
			16. Sirol
		Jhamtia	17. Sanuria
			18. Kamargoria
		B.K. Bati	19. Joypur Bltala

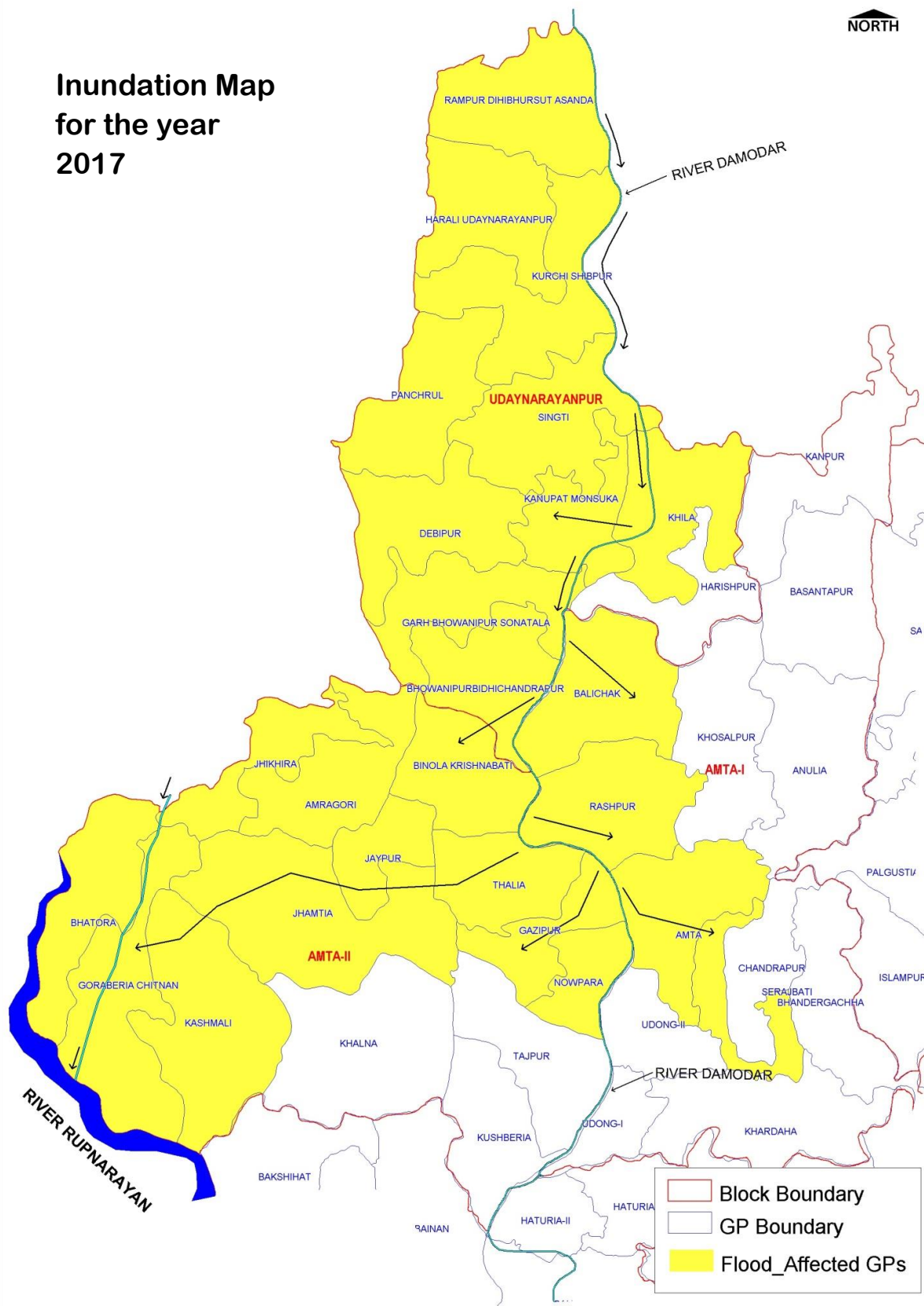
4	Uluberia – I	Hatgacha – II	1. Hatgacha – II
		Kalinagar	2. kalinagar
		Maheshpur	3. Maheshpur
		Tapna	4. Tapna
		Dhulasimla	5. Dhula-simla (Part)
		Bahira	6. Bahira
5	Uluberia – II	Basudevpur	1. Basudevpur
		Joargori	2. Joargori
			3. Jagarampur
		Tulsiberia	4. Tulsiberia
			5. Kamalachak
		Tehatta	6. Tehatta
	Baniban	7. Jagadishpur	
6	Shyampur – I		This Block is not marked as flood prone area
7	Shyampur – II		This Block is not marked as flood prone area
8	Bagnan – I	Bakshihat	1. Mankur
			2. Bakshi
			3. Kansrakatai
		Kalyanpur	4. Birampur
			5. Dipamalita
		Haturia – I	6. Purnal
	Bainan	7. Koria	
9.	Bagnan – II	Orphully	1. Dhoramanna, Kamardaha
		Sarat	2. Nowpala, Samta
		Bantul-Baidyanathpur	3. Birkul (Zeliapara)
		Hallyan	4. Nalpukur
		Mugkalyan	5. Pranballavpur
		Chandrabhag	6. Kulitapara, Rabibhag
SADAR SUB-DIVISION			
10	Sankrail	Sarenga	Sonimandir, Banstala
		Manikpur	Deltamill near P.O. Kantaltala, Jorabandh
		Kandua	Chaturbhujkati, Mohisgot, Nabghara Kandua
		Dhulagori	Shibtala Pry. School, Mollapara, Pramanikapra
		Panchpara	N.C.Paul sluice gate, Hogh Madrasha, Mohisdhara
		Raghudevhati	Chak-Sreekrishna, Kannyamoni
		Nalpur	Full G.P. area
		D. Sankrail	Sankrail, Kamdebpur, Purbapara, Abada, Ghora ghata, Halisahar, Osmanpur
		Masila	Andul Rd. to Bally Rd.
		Jorhat	Bisco Bandh
		Banupur – II	Rajganj Jute Ghat Jhorehat (Basudebpur)
		Dulliya	Nazrul Pally, sarada Pally, Vidyasagar Pally
		Sankrail	Partly
		Thanamakua	Podra Samsan Ghat to Thanamakua G.P. Office
Jhorehat	Bisco Bandh		
11	Domjur	Uttar Jhapardaha	1. Uttar Jhapardaha
			2. Mohisnala
			3. Mohisgote
			4. Rajapur
			5. Dakshinbari
			6. Nonakundu
			7. Badampur
			8. Chakhari
			9. Chak-Kadamtala
		Parbatipur	Parbatipur Chakhari

	<b>Domjur</b>	Narna	Paschim Narna
		Kolorah – I	Jamdanda
		Dakshin Jhapardaha	Sapadanga Uttar Keshabpur
		Domjur	Domjur Hospital area
		Mohiary – II	Nimerhati
		Makardah – II	Jhaluarber
		Begri	Biprannapara Baniara
		Bankra – II	Bankra Kabarpara Bankra Sardarpara
		Salap – I	Tentulkuli
		Rudrapur	Rudrapur Bachurgote
		Bankra – II	Bankra Saratpally
<b>12</b>	<b>Panchla</b>	Banharishpur	1) Banharishpur
			2) Nayachak
			3) Samanti
			4) Shyamchak
		Jalabiswanathpur	1) Jalabishwanathpur
			2) Dhunki
		Jujersha	1) Jujersha
			2) Kuldanga
		Suvararah	1) Suvararah
			2) Mallickbagan
		Deulpur	1) Deulpur
			2) Kushadanga
			3) Joyrampur
		Gangadharpur	1) Gangadharpur
			2) Joynagar
			3) Gandalpara
			4) Khasajalsi
		Bikihakola	1) Bikihakola
			2) Ranihati
			3) Sankkhali
		Panchla	1) Panchla
			2) Gabberia
		Chara Panchla	1) Dakshin Panchla
			2) Paschim Panchla
		Beldubi	1) Beldubi
			2) Paniara
			3) Kulai
			4) Jala-Kandua
		Sahapur	1) Sahapur
			2) Dhamsia
			3) Belkulai
			4) Khajijapur
			5) Satgharia

# MAP OF HOWRAH DISTRICT SHOWING FLOOD PRONE AREAS



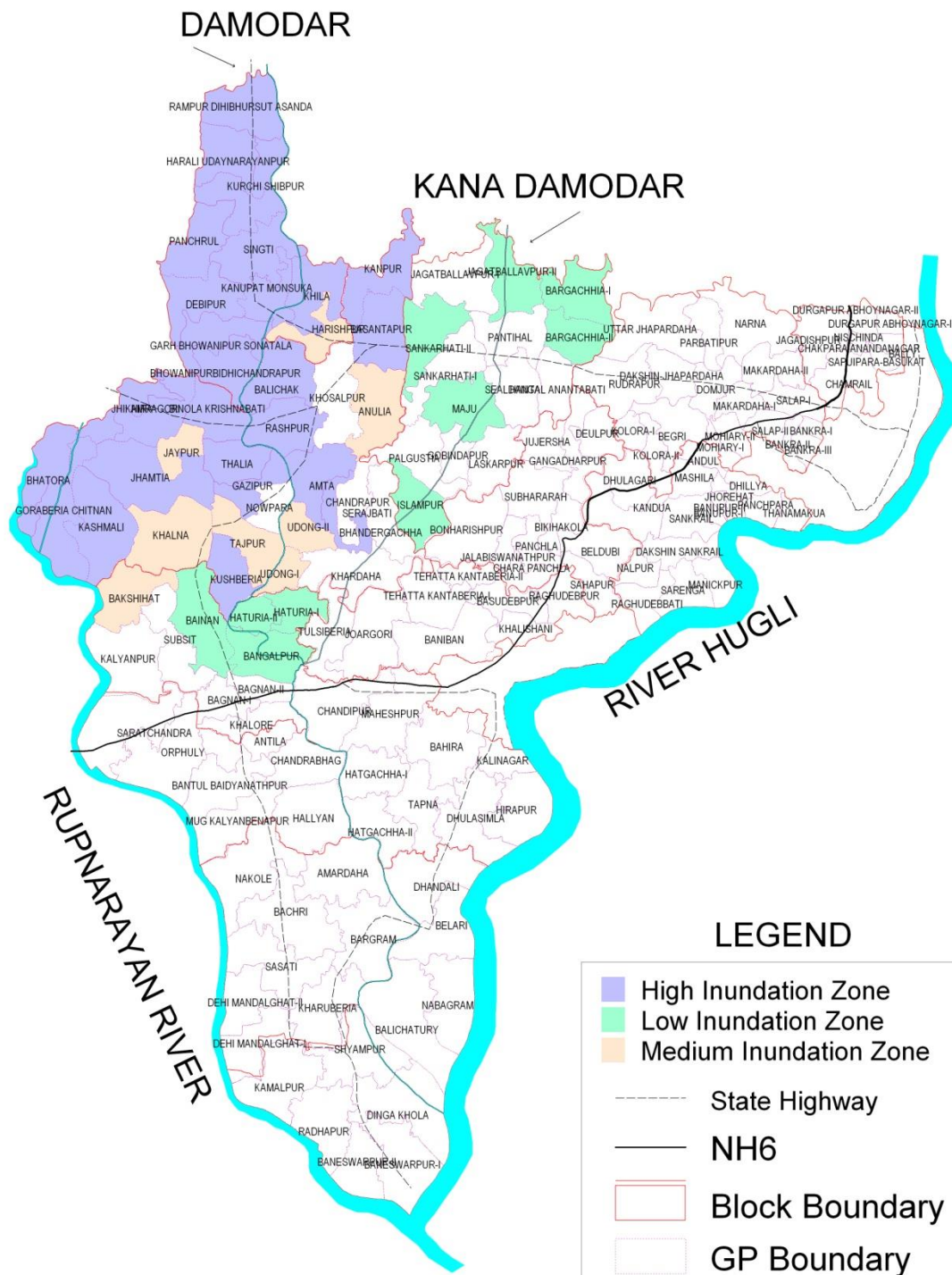
# Inundation Map for the year 2017



# INUNDATION MAP OF HOWRAH



BASED ON PREVIOUS MAJOR FLOOD HAZARDS IN HOWRAH



# **Institutional Arrangements**



**Institutional Arrangements :****DEPARTMENTS**

<b>L. NO.</b>	<b>DESIGNATION</b>	<b>OFFICE</b>	<b>MOBILE NO</b>	<b>FAX</b>
1.	Minister-in-Charge, Disaster Management Department	2214-4051		2214-4051
2.	Sri Dusyant Nariala , IAS, Principal Secretary, Disaster Management Department	2214-3674	9007154222	2214-4005
4.	Mrs. Nandini Saraswati W.B.C.S(Exe.) Jt. Secretary, Disaster Management Department	2214-1938 2254-5204	8158934336	2214-1378
6.	Mr. Debasish Nandi, W.B.C.S(Exe.) Director of Disaster Management of West Bengal.	2227-5820 2249-7358	9007154222	2265-0795
7.	Meteorological Deptt. (Alipore)	2479-0596		

**DIVISIONAL COMMISSIONER OFFICE**

<b>SL. NO.</b>	<b>DESIGNATION</b>	<b>OFFICE</b>	<b>MOBILE NO</b>	<b>FAX</b>
1.	Shri Hari Chand Ramalu, IAS Commissioner, Presidency Division	2242-4920 2242-2887		2242-0617

**EMERGENCY TELEPHONE NOS. OF HOWRAH DISTRICT**

<b>SL. NO.</b>	<b>DESIGNATION</b>	<b>OFFICE</b>	<b>MOBILE NO</b>	<b>FAX</b>
1.	District Magistrate Control Room & District E.O.C.	033-2641-3393		
2.	Dy. Commandant(Adjt.), Head quarters of 2 <sup>nd</sup> bn. N.D.R.F., Digherberia Camp. Barasat, Kolkata	033-2526-3077		033-2526-4394
3.	Sri Goutam Mukherjee Commandant, W.B.C.E.F., Amtala (Carry Road), Howrah	033-2688-5211	9674625484	
4.	Smt. Sarmistha Sharma Sengupta Commandant, W.W.C.D., 81/2, Fierce Road, Kolkata		9434065804	
5.	Srikrishna Ch. Panda Officer-in-Charge, W.B.F.E.S.(Fire), Howrah	033-2666-8111/12	9007072293	

**E.C.S.C. Ltd.**

<b>SL. NO.</b>	<b>DESIGNATION</b>	<b>OFFICE</b>	<b>MOBILE NO</b>	<b>FAX</b>
1.	General Manager (Relief)	2252-6573/6499		

**IMPORTANT TELEPHONE NOS. OF HOWRAH DISTRICT**

<b>SL. NO.</b>	<b>DESIGNATION</b>	<b>OFFICE</b>	<b>MOBILE NO</b>	<b>FAX</b>
1.	Smt. Mukta Arya , I.A.S District Magistrate, Howrah	2641-2024 / 2961	9831076865	2641-3367
2.	Sri Sri Bani Prasad Das, W.B.C.S.(Exe.) A.D.M. (General), -in-Charge Howrah	2641-4721	9830336475	2638-4913
3.	Sri Bani Prasad Das, W.B.C.S.(Exe.), A.D.M (LR), Howrah	2660-2749 / 9924	9831085249	2641-9924
4.	Shri Provas Chandra Ukil W.B.C.S.(Exe.), A.D.M (Panch), Howrah	2638-6474	9831085239	2638-6474
5.	Shri Soumyajit Debnath A.D.M . (Dev), Howrah	2638-3529	9830999139 / 9836750433	2638-0756
6.	Sri Suresh Chandra Rano, WBCS(Exe.) Secretary, Howrah Zilla Parishad	2637-0069	9748412416	2637-0069
7.	Chief Medical Officer of Health, Howrah	2641-2074 2638-0866	9475073303	
8.	Ex. Engineer, P.H.E. (Civil)Director	2637-0402	9433047223	2210-3993
9.	Superintendent District Hospital, Howrah General Hospital	2641-3400	8334900993	
10.	Exe. Engg, How Irrigation Div., World Bank Project	2252-3521	9231629355 9239293359	033-2252 3521
11.	Executive Engineer-I, L.D.C. Divn		9433168088	
12.	Executive Engineer-II, L.D.C. Div.	2661-0311	9233164744	
13.	Executive Engineer (Agri-Irrigation), Howrah Div.	2321-5327	9434189292	
14.	Executive Engineer (Agri Mech), Howrah Division	2475-9695	9434712153	
15.	Executive Engineer (PWD Roads ), Howrah Highway Division		8372068662 9372633100	
16.	Executive Engineer (PWD), Howrah Division	2244-4430	94332-38781	
17.	Sub-Divisional Officer, Trans Damodar Drainage Sub-division, Amta	03214-260 680	9433927400	03214-260 680
18.	Sub-Divisional Officer, Seijberia Irrigation Sub-division, Seijberia	033-2661 0285	8902471628	033-2661 0285
19.	Sub-Divisional Officer, Lower Damodar Sub-division No.-I, Mahishrekha	033-2621 1681	9830979775	033-2621 1681
20.	Sub-Divisional Officer, Howrah Drainage Sub-division, Najirgunj	033-2688 6201	9433168088	033-2688 6201
21.	Executive Engineer (HIT), Howrah		9830466747	
22.	C.E.O., H.I.T.		9748687342	
23.	Exe. Engg, PWD (Roads), Howrah Highway Division	2688-0119	9903233640	
24.	SB©, Howrah Region, WBSEDCL	2637-6469	9335075362	
25.	District Controller, Food & Supply, Howrah	2641-1943	7604068634	

26.	Deputy Director ARD& PO, Howrah		8777835551	
27.	District Veterinary Officer, Howrah	2666-1556	9434661213	
28.	Divisional Forest Officer, Howrah	2641-1772	9831605307	2641-1772
29.	Forest Range Officer(Urban), Shanpur		9733501236	
30.	Forest Range Officer (Rural), Uluberia		9433212065	
31.	G.M(West), BSNL	2668-6868 / 6860		2668-6848
32.	G.M. & P.D., NHAI	2226-8131	9903080825	2226-8132
33.	Director, A.C.W.C.	2479-3941 to 43		2479-3167/3782
34.	District Horticulture Officer	2638-0034 (Int. 239)	9434517568	
35.	Asstt. Director (ADMN) Agriculture	2641-4496	9474595490	
36.	Asst. Director of Fisheries, Howrah	2666-4488 / 1710	9836986558	
37.	Officer-in-Charge, Disaster, Management Department, Howrah	2641-3398	8335079101	2641-3398
38.	R.T.O., Howrah	2641-2435	8335042102	
39.	N.D.C., Howrah	2641-4910	9830571884	
40.	Secretary, Red Cross, Howrah	033-2641-1442	9830507637	
41.	Lions Club, Howrah	033-2248-5780 033-2640-3576	9830045461	
42.	D.V.C. , Control Room, Maithon	06540252571		
43.	C.E.O., K.M.D.A.	033-2358-0019	9830316880	
44.	SE(E/M) KMW & SA	033-2248-2346/47	9433121064	
45.	GM, B.S.N.L.	033-2668-6866/68	9433400015	
46.	Sub-Divisional Eng.,extn.1, Shibpur Exchange B.S.N.L.	033-2640-2026	9432000643	
47.	Area Manager, B.S.N.L. (Satyabala)	033-2666-6000 033-2666-4000	9433000013	
48.	Comm. Officer, B.S.N.L., Satyabala	033-2676-9646	9432000633	
49.	Howrah Station, Old Complex Enquiry	033-2638-7412/3542		
50.	Howrah Station, New Complex Enquiry	033-2638-2217		
51.	Sealdaha Rail Station Enquiry	033-2350-3535		
52.	Chief Engineer. HMC	033-2638-3211	9830163582	
53.	General Manager(T), IOCL Mourigram Terminal	033-2644-0315	9433034927	
54.	Executive Engineer P & RD, Howrah Div.	033-2638-0291	9874219604	
55.	Executive Engineer, PHE(Mech.)		9432977329	

#### IMPORTANT TELEPHONE Nos. of SUB-DIVISIONS

SL. NO.	DESIGNATION	OFFICE	MOBILE NO	FAX
1.	Sri Tushar Singla, IAS, Sub-Divisional Officer, Uluberia	2661-0336 / 0324	9830693168	2661-0202
2.	Sri Ranjan Chakrabarty, WBCS(Exe.), Sub-Divisional Officer, Sadar, Howrah	2641-2329	9830571856	2641-3428
3.	O/C ,Disaster Management, Uluberia	2661-2973	8335050884	

4.	SDDMO (S), Howrah	2641-3398	9051968965	
5.	Sub-Divisional Controller, Sadar, Howrah	2641-2731	9331826315	2638-2731
6.	Sub-Divisional Controller, Uluberia, Howrah	2661-0348	9474404792	
7.	Civil Defence, Sadar, Howrah	2641-3383 / 3393	9232750388	
8.	S.D.O., LDC Sub-Division No.-I, Uluberia, Howrah	033-26610992	9732582200	
9.	S.D.O., LDC Sub-Division No.-II, Uluberia, Howrah	033-26613094	9474406438	
10.	S.D.O., LDC Sub-Division No.-III, Uluberia, Howrah	NIL	9434984194	
11.	S.D.O., Lower Damodar Sub-Division No.-IV	NIL	9933603881	
12.	S.D.O., Seijberia Irrigation Sub-division	033-26610285	8902471628	
13.	S.D.O.,Howrah Drainage Sub-division	033-2688 6201	9434984194	

#### IMPORTANT TELEPHONE NOS. OF BLOCK

Name of Block	Block Development Officers	Contact Nos. & E-mail ID
<b>SADAR SUB-DIVISION</b>		
Bally Jagacha	Sri Asit Baran Ghosh WBCS (Exe)	Tel: 033-2651-1925Mob: 8335079105 bally_jagacha@yahoo.co.in
Panchla	Dr. Esha Ghosh, WBCS(Exe.)	Tel: 033-2661-6277Mob: 8335079107 panchla@rediffmail.com
Sankrail	Sri Sandip Misra, WBCS (Exe)	Tel: 033-2669-1789 Mob: 8335079106 bdo_s@yahoo.co.in
Domjur	Sri Raja Bhowmick, WBCS (Exe)	Tel: 033-2670-0222 Mob: 8335079108 bdodomjur@gmail.com
Jagatballavpur	Smt. Ranjana Roy, WBCS (Exe)	Tel: 03214-232-245Mob: 8335079109 bdojbpur@yahoo.co.in
<b>ULUBERIA SUB-DIVISION</b>		
Uluberia-I	Sri Kartick Chandra Roy, WBCS (Exe)	Tel: 033-2661-0263Mob: 9903535282/8335079110 uluberia1_bdo@rediffmail.com
Uluberia-II	Sri Nishit Kr. Mahato, WBCS (Exe)	Tel: 033-2661-0360Mob: 9163871108/8336961011 bdoulu2@gmail.com
Bagnan-I	Sri Satyajit Biswas, WBCS (Exe)	Tel: 03214-266-275 Mob: 8335079112 bagnan1bdo@gmail.com
Bagnan-II	Sri Suman Chakraborty, WBCS (Exe)	Tel: 03214-272-276Mob: 8335079113 bdobagnan2@yahoo.co.in
Shyampur-I	Sri Sanchayan Pan, WBCS(Exe.)	Tel: 03214-264-217Mob: 8335079114 bdoshyampur1@gmail.com

Name of Block	Block Development Officers	Contact Nos. & E-mail ID
Shyampur-II	Sri Subrata Ghosh, WBCS (Exe)	Tel: 03214-261-276Mob: 8335079115 bdoshyampur2@gmail.com
Amta-I	Sri Loknath Sarkar, WBCS (Exe)	Tel: 03214-260-239Mob: 8335079116 bdoamta1@gmail.com
Amta-II	Sri Debdas Naskar, WBCS (Exe)	Tel: 03214-234-127Mob: 8335079117 amta2bdo@gmail.com
Udaynarayanpur	Sri Joyjit Lahiri, WBCS (Exe)	Tel: 03214-257-333Mob: 8335079118 bdounpur@gmail.com

#### Name & Contact of Disaster Management Officers & Staff of Howrah

Sl No	Name	Designation	Contact No
1	Arghya Ghosh, W.B.C.S.(Exe.)	O.C., Disaster Management, Howrah	8335079101
2	Kaushik Choudhury	District Disaster Management Officer	7595828229
3	Gobinda Kundu, WB.C.S.(Exe.)	O.C., Disaster Management , Uluberia	8335050884
4	Suvajit Singha	SDDMO Sadar	9051968965
5	Sagarika Bhattacharya	BDMO, Bally-jagacha	9433626771
6	Saheli Biswas	BDMO, Domjur	9836941412
7	Swapna Ghosh	BDMO, Panchla	9051419257
8	Arijit Bhattacharya	BDMO, J.B Pur	8820006990
9	Tapas Pahari	BDMO, Sankrail	8145212510
10	Dulal Rana	BDMO, Bagnan-I	9732722812
11	Saurav Goswami	BDMO-in-Charge (CI), Bagnan-II	9433402658
12	Prabir Kumar Mondal	BDMO-in-Charge (P.D.O.), Uluberia-I	9007770796
13	Bikash Sarkar	BDMO, Uluberia-II	9230578340
14	Md. Samserul Mustafa	BDMO, Amta-I	9830454774
15	Manaranjan Jana	BDMOAmta-II	8670447870
16	Sayantan Sengupta	BDMO, U.N Pur	9883540168
17	Md. Maruf Ahmed	BDMO, Shyampur-I	9831876235
18	Debashis Ghosh	BDMO, Shyampur-II	9748364397
19	Haradhan Saha	H.C., Disaster Management, Howrah	9163508886
20	Sukanta Saha	U.D.A., -Do-	9143036505
21	Rudranil Adak	U.D.A., -Do-	7407822650

#### Contact Details for requisition of Divers

Sl. No.	Designation of Officers	Phone	Fax	e-mail
1.	Jt. C.P. HQ, Kolkata Police / Addl. C.P. III	033-22623627 033 22143024 033-22505265	033-22145512	<a href="mailto:ltcphq@kolkatapolice.gov.in">ltcphq@kolkatapolice.gov.in</a> <a href="mailto:addlcp3@kolkatapolice.gov.in">addlcp3@kolkatapolice.gov.in</a>
2.	DIG AP, Barrackpore	033 25920213	033 25920630	<a href="mailto:digapbcpore@gmail.com">digapbcpore@gmail.com</a> <a href="mailto:dmg.sap8thbn@gmail.com">dmg.sap8thbn@gmail.com</a>

**Telephone No. of Superior Police Officer & Officer-in-Charge under  
Howrah Police Commissionerate**

Sl No.	Name	Designation	Office telephone No.	Mobile No.
1	Shri Gaurav Sharma, IPS	C.P	2641-2626	9073343200
2	Sri Debabrata Das	DCP, HQ	2640-4200	9073343201
3	Sri Ranendra Nath Banerjee, IPS	DCP Zone-II (South)	2678-3644	9073343202
4	Sri Sumit Kumar, IPS	DCP, Traffic	2666-2360	9073343203
5	Sri Sumanjit Ray, IPS	DCP Zone –I (North)	2655-7255	9073343204
6	Smt. Swathi Bhangalia, IPS	ACP North	2641-1388	9073343207
7	Sri Biswa Chand Thakur, IPS	ACP (South)	2641-4466	9073343208
8	Sri Gulam Sarwar, WBPS	ACP Hqtrs. Div.	2637-4764	9073343213
9	Sri Mir Sahidul Ali, WBPS	ACP DD	2666-0130	9163130215
10	Sri Ashish Kr. Palit, WBPS	ACP HQ		9073343210
11	Smt. Chandrima Saha , WBPS	ACP EB	2677-4793	9073343214
12	Sri Prabir Chatterjee, WBPS	ACP SB	2641-4010	9073343212
13	Sri Shibaprasad Patra, WBPS	ACP Traffic-I	2688-0290	9073343209
14	Sri Maqsood Hassan, WBPS	ACP Traffic-II & III	2666-2666	9073343211
15	Sri Basudeb Khan, WBPS	ACP Security Nabanna	2678-0119 // 2641-2670	9073343216
16	Sri Ashoke Nath Chattapadhyay, WBPS	ACP Howrah TG	2637-4791	9073343233
17	Insp. Amal Kr. Roy	RI, HPC	2641-2670	9073343245
18	Insp. Sri Tathagat Pandey	O/C Howrah PS	2641-1750	9073343217
19	Insp.Somdeb Bondyopadhyay	O/C Shibpur PS	2637-4794	9073343218
20	Insp.Debasis Chatterjee	O/C AJC Bose B. Garden PS	2688-6638	9073343219
21	Insp.Samser Ali	O/C Chatterjeehat PS	2667-2535	9073343220
22	Insp.Goutam Talukdar	O/C Bantra PS	2643-1009	9073343221
23	Insp.Abdul Gaffar	O/C Jagacha PS	2657-9223	9073343222
24	Insp.Subundu Sarkar	O/C Dasnagar PS	2653-1260	9073343223
25	Insp.Debshis Ghosh	O/C Santragachi PS	2658-6560	9073343224
26	Insp. Tathagata Pandey	O/C Golabari PS	2666-3515	9073343225
27	Insp.Dipankar Bhattacharjee	O/C MP Ghora PS	2655-5952	9073343226
28	Insp.Bikash Dutta	O/C Bally PS	2654-1128	9073343227
29	Insp.Swapan Saha	O/C Belur PS	2654-0380	9073343228
30	Insp.Biman Mridha	O/C Liluah PS	2645-8047	9073343229
31	Insp.Sanjib Sarkar	O/C Nischinda PS	2671-0010	9073343230
32	Insp.Ruparshee Pahari	O/C Women PS	2637-2637	9073343231
33	Insp. Sisir Kr. Naskar	OC Cyber Crime PS	2676-8007	9073343232
34	Insp.Atindranath Mukherjee	IC 2 <sup>nd</sup> HB TG	2688-0144	9073343234
35	Insp.Subrata Chandra	IC Kona TG	2688-0313	9073343235
36	Insp.Sanjoy Chatterjee	IC Dasnagar TG	2677-4546	9073343236
37	Insp.Goutam Paul	IC Golabari TG	2655-1115	9073343237
38	Insp.Kalyan Chakraborty	IC Bally TG	2654-7804	9073343238
39	Insp.Pradip Kumar Jana	IC Howrah R/S TG	2641-2345	9073343244

Sl No.	Name	Designation	Office telephone No.	Mobile No.
40	Insp.Debojyoti Saha	Insp. DD	2666-0130	9073343246
41	Insp.Tanmoy Ghosh	Insp. EB	2637-4793	9434363682
42	Insp. Prashanta Dutta	SBO, HPC	2640-4001, Ext-223	9734316995
43	Insp. Barun Ghosh	Insp. HPC		9434345758
44	SI.Ashoke Das	Reserve Officer	2640-4008	9073343242
45	SI.Amalendu Bhattacharjee	MTO	2640-4008	
46	SI.Prabir Ghosh	O/C CCRB	Ext-243	9073343240
47	SI.Swapan Halder	O/C Control Room	2641-5614	9051078600
48	SI.Kashinath Shit	O/C Traffic Control Room	2666-1110	9733337575
49	SI Rajib Kr. Paul	OC Watch, SB	2640-4001 Ext-223	9073343244
50	SI Krishnendu Mondal	OC Licence, HPC	2640-4001 Ext-247	9073343213

**POLICE ADMINISTRATION & OFFICERS OF HOWRAH RURAL DISTRICT POLICE**

Sl No	Name	Designation	Telephone No	Mobile No.	CUG No.
1	Shri Soumya Roy, IPS	S.P.Howrah Rural	2661-6210/2661-6400(FAX)	9073343800	9073343800
2	Shri Rana Mukherjee, WBPS	Addl. S.P (HQ)	2661-6230	9774802304	9073343801
3	Shri Quazi Samsuddin Ahmed, WBPS,	Addl. S.P (Rural)	2641 8900	9073343824	9073343824
4	Md. Sana Akhtar, IPS	S.D.P.O. Uluberia	2661.0265/3313		9073343802
5	Smt. Santi Sen , WBPS	Dy.S.P (D&T)	2641-8900	8017997283	9073343805
6	Shri Biswarup Banerjee, WBPS	Dy.S.P (DEB)	Phone No.	9434027416/ 8240178430	8697985224
7	Shri Debabrata Ojha ,WBPS	Dy.S.P (HQ)	2661-6030	9433249640	9073343803
8	Shri Dipak Sarkar	Dy.S.P (DIB)	2661-6406	9434242655	9073343804
9	Shri Anirban Homeroy,WBPS	Dy. SP Traffic, /AP (Rural)	2641-8900	9735900506	9073343806
10	Shri Biswajit Naskar	Dy. SP , Traffic (HQ)	2641-8900	9830420695	9073676292
11	Shri Raja Mukharjee	C.I. Garchumuk	2661-0575	9433108822	9073343807
12	Shri Subrata barik	C.I. Amta	03214-265256	9434128235	9073343808
13	Shri Pintu Saha	C.I. Sankrail	2679-0234	9434159325	9073343809



SI No	Name	Designation	Telephone No	Mobile No.	CUG No.
14	Shri Goutam Chakraborti	C.I. Munshirhat	03214-255008	9830543004	9073343810
15	Shri : Jayanta Kumar Singha	R.I. Howrah Rural	2641-8900	7908936412	9073343825
16	Shri Siddhartha Mukherjee	T.I. Uluberia			8697982972
17	Shri Siddhartha Mukherjee	T.I. Dhulagorh			8697982972
18	Shri Pintu Saha	D.I.O (I) HRD (Additional Charge of CI Sankrail	2661-6406(FAX)	9434159325	9073343826
19	Shri Amarjeet Biswas	D.I.O (II) HRD	2661-6406(FAX)	8348910911	
20	Shri Kallol Kumar Ghosh, O/C MPB	O/C MPB		8017989601	
21	Shri Partha Ranjan Mondal	IC Domjur PS	2670-0208		9073343811
22	Shri Koushik Kundu	IC Uluberia PS	2661-0261	9830747700	9073343812
23	Shri Abijit Sarkar	IC Bagnan	03214-266241	8972666550	9073343813
24	Shri Modhusudhan Mukherjee	I.C Sankrail PS	2679-0200		9073343815
25	Smt. Banani Roy	I/C Uluberia Women PS	2661-0100 / 2661 - 0009	9564621716	9073343814
26	S.I. Debrata Chakraborty	O/C,J.B.Pur PS	03214-255230	9051466279	9073343816
27	S.I. Tanmoy Bhattachajee	O/C, Panchla PS	03214-259224	9674163977	9073343817
28	S.I. Timpu Das	O/C, Amta PS	03214-260256	8017525311	9073343818
29	S.I Ajoy Kumar Singh	O/C Rajapur PS		8017983117	9073676288
30	S.I Tapas Kumar Naskar	O/C, Joypur P.S	03214-234126	9836218618	9073343819

<b>Sl No</b>	<b>Name</b>	<b>Designation</b>	<b>Telephone No</b>	<b>Mobile No.</b>	<b>CUG No.</b>
31	S.I. Sirshendu Kundu	O/C,Shyampur PS	03214-264232	9836181113	9073343820
32	SI Moumon Chakroborty	O/C,U.N.Pur PS	03214-257220	9830128969	9073343821
33	S.I Koushik Nag	O/C,Bauria PS	2661-8272	9830835008	9073343822
34	S.I Kinkar Mondal	O/C, Nazirganj I/C	2688-6830	9932443647	8697985227
35	S.I Sumon Ghosh	O/C, Manikpur I/C	2679-6986	9674747287	8697985225
36	S.I. Mofijul Alam	O/C Bankra O.P	2653-3011	8017014100	8697985226
37	S.I Surajit Sarkar	O/C Garchumuk TP/OP	03214-271000	9874180698	9073676291
38	S.I Nishikanta Naskar	O/C Uluberia STG		9836663363	8697982973
39	S.I. Sourav Brambhachari	O/C Nibra STG		9830305999	
40	S.I. Bhaskar Gayen	O/C Bagnan STG		9874363322	
41	S.I Surojit Mazumder	O/C Dhulagarh STG	2661 - 7100	8017997230	
42	Shri Pabitra Kumar Ganguly	Court Inspector (Ul b )	2661-3972	7908960653	9073343807
43	Shri Tapan Aguan	SrAdj Hg & High Ins.	26418900	9830138609	
44	S.I. Bijoy Kumar Shubba	R.O. Howrah Rural	2661-6401	9748329567	9073343823
45	ULB T.C Control Room	Inspector T/C HRD	26610245/0316		
46	S.I Kaustab Karmakar	O/C SOG Cell	2661-6403	9831206013	
47	S.I. Pranab Mondal	O/C Control Room	26616400 (FAX)	8017004980	9073343827
48	S.I Trilochan Haldar	O.C Watch	2661-6406	9331821747	
49	S.I. Jyotirmoy Ghosh	O/C P.G Cell	2641-8900	9830341411	
50	S.I. Jyotirmoy Ghosh	O/C Legal Cell,	2641-8900	9830341411	
51	S.I. Amit Das	O/C DCRB	2661-6405/6260	9830440350	

### M.P'S & MLA's of Howrah District

PC Name	Name of MP	Sl	Name of MLA	Name of Assembly Constituency	Contact details
25- Howrah	Shri Prasun Banerjee (AITC) 9674799508 /9330473557	1.	Baishali Dalmiya (AITC)	169-Bally	9830328802
		2.	Lakshmi Ratan Shukla (AITC)	170-Howrah Uttar	9831091116
		3.	Sri Arup Roy (AITC) – MIC Agricultural Marketing	171-Howrah Madhya	9830071269
		4.	Sri Jatu Lahiri (AITC)	172-Shibpur	9874488199
		5.	Sri Brajomohon Majumdar (AITC)	173-Howrah Dakshin	9903835524
		6.	Sri Shital Sarder (AITC)	174-Sankrail(SC)	9831632677
		7.	Sri Gulsan Mallick (AITC)	175-Panchla	9830465684/ 9836858426
26- Uluberia	Smt. Sajda Ahamed (AITC) 9830023192	8.	Vacant	176-Uluberia Purba	N.A.
		9.	Dr. Nirmal Majhi (AITC) – Parliamentary Secy	177-Uluberia Uttar (SC)	9830051466
		10.	Sri Pulak Roy (AITC) – Parliamentary Secy	178-Uluberia Dakshin	9830231325
		11.	Sri Kalipada Mondal (AITC)	179-Shyampur	9434515155
		12.	Sri Arunabha Sen (AITC)	180-Bagnan	9734640990
		13.	Sri Asit Mitra (INC)	181-Amta	9434316856
		14.	Sri Samir Kumar Panja (AITC)	182-Udaynarayanpur	9733757470
27- Srerampore	Shri Kalyan Banerjee (AITC) 9830035733	15.	Sri Md. Abdul Gani (AITC)	183-Jagatballavpur	9674156312
		16.	Sri Rajib Banerjee (AITC) – MIC Deptt. Of Backward Classes Welfare	184-Domjur	9903940278

### Contact no.s of office bearers of Zilla Parishad

Sl. No.	Name & Designation	Contact no.
1.	Smt. Kaberi Das, Sabhadhipati	9874177555/8100420387
2.	Sri Ajay Bhattacharya, Sahakari Sabhadhipati	9433370995
3.	Smt. Ambia Khatun, Shishu-Nari Unnnyan, Jankalyan –O- Tran Sthai Samiti	9836482744/ 9830413802

## Important Contact Nos. of State Level Nodal Officers of various Departments/organization

Sl. No.	Department/organization	Name & Designation of Nodal Officer	Contact No.(s)
1.	IMD, Kolkata	Sri Sanjib Bandyopadhyay, Dy. Director General, IMD, Kolkata	9433426432
2.	Irrigation & Waterways	Sri Sanjay Kundu Director, Advance Planning, Project Evaluation & Monitoring Cell	9432392987
3.	All India Radio, Kolkata	S.K.Biswas, DY. DG(E)	9933067089
4.	Central Water Commission	Sri M.K. Singh, Sub-Div. Engineer	9031044339
5.	DVC	Sri S.K. Maji, Suptd. Engineer©, Reservoir operation	09431319459 06540-25244
6.	Civil Defence	Sri P.Niranjan, IPS, Director of Civil Defence	9836117217
7.	Fire Services	Sri Jag Mohan, IPS, Director General Fire Services	9831700001
8.	Army HQ, Bengal Area	Colonel Jitender Singh	7087428050
9.	Air Force	Wing Commander S.K. Sharma	8335934368
10.	Coast Guard	Sri Ravi Kumar, Dy. Commandant	9434294360
11.	Navy	Cdr Himadri Sarkar, Naval Officer-in-Charge	9531856447
12.	NDRF	Nitish Upadhyay, Commandant, 2 <sup>nd</sup> . Battalion	09434742836
13.	Kolkata Police	Sri H.K.Kusumakar, IPS, Addl., C.P.-IV	8978540202 2214-5799
14.	West Bengal Police	Sri Siddh Nath Gupta, IPS, ADG(Estt.)	9830172321
15.	Disaster Management	Sri P.K. Mondal, Jt. Secretary	9434451442
16.	Food & Supplies	Sri Suman Kumar Ghosh, Jt. Secretary	9433873593
17.	Family & Welfare	Dr. Nema Ch. Mondal, ADHS(ECNC & ES)	9126504161
18.	PHE Directorate	Smt. Chaitali Mondal, OSD, Monitoring	9433152022
19.	Deptt. of Fisheries	Smt. Suktisita Bhattacharya, Jt. Secretary	9433841268
20.	Agriculture	Sri Jitendra Roy, Jt. Secretary	9433415479
21.	Transport	Sri Mitra Chatterjee, Jt. Secretary	9830262565
22.	KMC	Sri H.P. Mondal, Municipal Secretary	9836665845

**Health & Family Welfare Institution Mechanism**  
**District level**

Activity	Name of Nodal Office	Mobile No	Alternate responsible officer (in absence of Nodal Officer)	Mobile No
Overall	CMOH : <b>Dr. (Mrs) Bhabani Das</b>	9475073303	<b>Dy CMOH-I : Dr. Pampa Charkrabarty</b> <i>Nominated by CMOH</i>	9051547225
Reporting	Dy. CMOH II : <b>Dr. Kunal Kanti De</b>	8420836745	<b>Dy. CMOH-III : Dr. Shyamali Rudra</b> <i>Nominated by CMOH</i>	9830122901
Logistics (Drugs)	<b>Dy CMOH-I : Dr. Pampa Charkrabarty</b> <i>Nominated by CMOH</i>	9051547225	<b>ZLO : Dr.Sharmistha Mitra</b> <i>Nominated by CMOH</i>	9433408490
Logistics (Transport)	<b>Dy CMOH-I : Dr. Pampa Charkrabarty</b> <i>Nominated by CMOH</i>	9051547225	<b>Dy. CMOH-III : Dr. Shyamali Rudra</b> <i>Nominated by CMOH</i>	9830122901
Inter-sectoral coordination	CMOH : <b>Dr. (Mrs) Bhabani Das</b>	9475073303	<b>Dy. CMOH II : Dr. Kunal Kanti De</b> <i>Nominated by CMOH</i>	8420836745
Media Management	CMOH : <b>Dr. (Mrs) Bhabani Das</b>	9475073303	<b>Dy. CMOH II : Dr. Kunal Kanti De</b> <i>Nominated by CMOH</i>	8420836745

**Names of nodal officers for District & Others Hospitals**

Sl No	District Hospital	NAME OF SUPERINTENDENT	MOBILE NUMBER
1	Howrah District Hospital	Dr. Narayan Chattopadhyay	8334900993
	<b>SD / SG Hospital</b>	<b>NAME OF SUPERINTENDENT</b>	<b>MOBILE NUMBER</b>
2	Uluberia SD Hospital	Dr. Sudip Karar	9153854344
3	Udaynarayanpur SGH	Dr.Kaushik Show	9434820369
	<b>Sub division</b>	<b>NAME OF A.C.M.O.H</b>	<b>MOBILE NUMBER</b>
4	Uluberia	Dr. Iswar Chatterjee	9674381320

**Names of nodal officers**

<b>Sl No</b>	<b>Name of RH / BPHC</b>	<b>Name of Supdt / BMOH</b>	<b>Mobile number</b>
1.	Amta- I	Dr. Gautam Nandi	9330893654
2.	Amta -II	Dr. Sharmila Das Chatterjee	9831137172
3.	Bagnan - I	Dr. Palash Mallick	9434543268
4.	Bagnan - II	Dr.Binay Roy	9433369292
5.	Bally Jagacha	Dr. Gautam Paik	9143468972
6.	Domjur	Dr. Paranab Kr. Mujamdar	9432324650
7	Jagatballavpur	Dr. Shatavisha khanra	9836028575
8.	Panchla	Dr. Sanchita Roy	8759782909
9.	Sankrail	Dr. Jayasri Saha	9831410442
10	Shyampur - I	Dr. Prasun Bhattachaya	9007110059
11.	Shyampur - II	Dr. Arup Mondal	8001410340
12.	U. N. Pur	Dr. Abijit Bhattachaya	9593004148
13	Uluberia - I	Dr.Subrata Ghosh	7044908029
14.	Uluberia - II	Dr. Tanmoy Ghosh	9831017731

### Important contacts of Health Officials of Vulnerable points

Name of the Block	Sl. No.	Name of BPHC	Name of Supdt./BMOH/2 <sup>nd</sup> .MO/PHC MO	Mobile No.
<b>Amta-I</b>	1.	Amta Rural Hospital	Dr. Goutam Nandi	9932051361/9330893654
	2.	Rashpur PHC	Dr. Dharendra Gupta	9883476722
	3.	Ranapara PHC	Dr. Debjit Das	
	4.	Khosalpur PHC	Dr. Goutam Nandi	9932051361/9330893654
	5.	Mato PHC	Dr. Goutam Nandi	9932051361/9330893654
<b>Amta-II</b>	1.	Joypur BPHC	Dr. Sharmila Chatterjee, BMOH	9831137172
	2.	South Bhatara PHC	Dr. Pravash Ranjan Dey, MO	9331210345
	3.	Jhikira PHC	Dr. Rahisul Rahaman, MO	9830363790
	4.	Gazipur PHC	Dr. Pravash Ranjan Dey	9331210345
	5.	Khalna PHC	Dr. Mrinmoy kar, BMOH	8481058027
<b>UNpur</b>	1.	Debipur BPHC	Dr. Abhijit Bhattachaya	9593004148
	2.	Purpat PHC	Dr. Azad Tarafder	9933535520
	3.	G.B.Pur PHC	Dr. Uma sankar Dalui	9433124114
	4.	Harishpur PHC	Dr. Kayzer Ahamed	9732087681
	5.	Dehibhursut PHC	Dr. Surajit Dalui	7319256972
<b>Domjur</b>	1.	Domjur R.H	Dr. Pranab Kumar Majumdar (B.M.O.H)	9432324650
	2.	Nonakundu PHC	Dr. Subir Dhar	
	3.	Kolorah PHC	Dr. Pratik Chaterjee	
	4.	Bankra PHC	Dr. Sk.Azharuddin	8697618514
	5.	Mohiary L.K. Hospital PHC	Dr. Rumaiya Islam	9903054690
<b>JBpur</b>	1.	Jagatballavpur	Dr. Satasiva Khara	9836028575
	2.	Bargachia PHC	Dr. Suvodip Chakrabarty	9903258182
	3.	Pantihal PHC	Dr. Arkavo Goswami	7044196658
	4.	Sankarhati PHC	Dr. Sanjashree Saha	
	5.	Maju PHC	Dr. Md. Ayyub Shekha	
	6.	Polgusthia PHC	Dr. Subhasish Chakrabarty	9647095564 7602858182
	7.	Gobindapur PHC	Dr. Nivedita Paul	9674669559



**Agriculture : Contacts of Block, Subdiv. & Dist. level Nodal officers**

<b>Sl.No.</b>	<b>Name of Block</b>	<b>Name of Asst. Dir. of Agriculture</b>	<b>Contact No.</b>	<b>e-mail</b>
1.	Bally Jagacha	Subhas Saha	9433710794	<a href="mailto:adaballyjagacha@gmail.com">adaballyjagacha@gmail.com</a> ,
2.	Domjur	Sandip Mitra	9477238864	<a href="mailto:adadomjur@gmail.com">adadomjur@gmail.com</a> ,
3.	Sankrail	Rajesh Saha	9933549422	<a href="mailto:adasankrail@gmail.com">adasankrail@gmail.com</a>
4.	Panchla	Arijit Mondal	9434725740	<a href="mailto:ada.panchla@gmail.com">ada.panchla@gmail.com</a> ,
5.	Jagatballavpur	Soumesh Saha	9434250095	<a href="mailto:assttda.jbpur@gmail.com">assttda.jbpur@gmail.com</a> ,
6.	Amta-I	Partha S. Pramanik	9434223531	<a href="mailto:adaamta1@gmail.com">adaamta1@gmail.com</a> ,
7.	Amta-II	Mahadeb Barai	9804045515	<a href="mailto:adaamta2@gmail.com">adaamta2@gmail.com</a> ,
8.	Uluberia-I	Gokul.Ch.Maity	9434421194	<a href="mailto:ada.uluberia1@gmail.com">ada.uluberia1@gmail.com</a> ,
9.	Uluberia-II	Abhijit Ghosh	9434716833	<a href="mailto:ada.uluberia2@hotmail.com">ada.uluberia2@hotmail.com</a>
10.	Bagnan-I	Sangeeta Jana	9874145714	<a href="mailto:adabagnan1@gmail.com">adabagnan1@gmail.com</a>
11.	Bagnan-II	Nilratan Bhowmik	9434323787	<a href="mailto:adabagnan2@gmail.com">adabagnan2@gmail.com</a> ,
12.	Shyampur-I	Santanu Roy	9933526268	<a href="mailto:assttdashy1@gmail.com">assttdashy1@gmail.com</a> ,
13.	Shyampur-II	Amit Kr. Tunga	9732533429	<a href="mailto:adashy2@gmail.com">adashy2@gmail.com</a> ,
14.	Udaynarayanpur	Goutam Samui	9434552168	<a href="mailto:adaunpur@gmail.com">adaunpur@gmail.com</a> ,
<b>Sl.No</b>	<b>Name of Subdiv./Dist.</b>	<b>Name of Asst. Dir. of Agriculture (Admin)</b>	<b>Contact No.</b>	<b>e-mail</b>
1.	Howrah Sadar	Suvankar Basak . ADA(S.M)	26378451/ 8274872135	<a href="mailto:sao.howrah@gmail.com">sao.howrah@gmail.com</a>
2.	Uluberia	Tapas Das . ADA(S.M.)	26610312/ 9433465812	<a href="mailto:suluberia@yahoo.in">suluberia@yahoo.in</a>
3.	Howrah District	Debasish Datta	9474595490	<a href="mailto:agri.howrah@gmail.com">agri.howrah@gmail.com</a>

## **Flood Control Room**

Flood Control Room will be centrally opened at Jalsampad Bhavan, Salt Lake with the Telephone Number : 033- 2321 8341

Following are the Office Telephone Numbers of different Offices alongwith Mobile No. of the office-master under this division :

Sl. No.	Name of the Office	Location	Telephone No. & FAX No.	Office of the	Mobile No.
1	Lower Damodar Construction Division	Fuleswar, Uluberia, Howrah	03326610090	Executive Engineer-I	9433168088
2	Lower Damodar Construction Division	Fuleswar, Uluberia, Howrah	033-26610311	Executive Engineer-II	9433106668
3	LDC Sub-Division No.-I, Uluberia, Howrah	Fuleswar, Uluberia, Howrah	033-26610992	Sub-Divisional Officer	7908283260
4	LDC Sub-Division No.-II, Uluberia, Howrah	Fuleswar, Uluberia, Howrah	033-26613094	Sub-Divisional Officer	8250612534
5	Lower Damodar Sub-Division No.-IV	Ulughata, Howrah	NIL	Sub-divisional Officer	9933603881
6	Seijberia Irrigation Sub-division	Seijberia	033-26610285	Sub-divisional Officer	7980261174
7	Howrah Drainage Sub-division	Najirgunj	033-2688 6201	Sub-divisional Officer	9433142788

e-mail address of Howrah Irrigation Division is : [eeldcd.iwdwb@gmail.com](mailto:eeldcd.iwdwb@gmail.com)

# Resource Analysis

## Resources Analysis

### **IDENTIFICATION OF INFRASTRUCTURES ON HIGH-LAND AS RESCUE SHELTERS** **HUMAN & CATTLE HEALTH CARE POINTS, STORAGE FOR RELIEF ARTICLES :**

Sub-Division	Block	Name of the Rescue Shelter
Sadar	Panchla	Bonharishpur Flood Shelter, Bonharishpur High School, Talbandi High School
	Jagatballavpur	Gouripur Flood Shelter (Polgustia G.P. Area), Jagatballavpur High School, Sovarani Memorial College, Chaksada Primary School, Bally Adibasi F.P. School, Madhya Santoshpur F.P. School, Uttar Santoshpur Bagdipara F.P. School, Bargachia Priyanath Pathshala, R.N. Bose High School, Biswanath F.P. School, Bhrhit Bamunpara F.P. School, Bramhanpara Chintamoni Balika Bidyalaya, Bramhanpara Chintamoni Institution, Nazrul Sikshya Niketan, Nalda Nabagopal F.P. School, Dwipa Board Primary School, Gouripur Flood Shelter (Non Official)
	Sankrail	Kandua Mahakali High School, Chaturbhujkati Primary School, Raghudevhati Sadheraner Vidyalay, Manickpur Adarsha Vidyalay (Paschimpara Pry. School), Delta Primary School, Sarenga High School, Shyamcharan Pry. School, Sarenga, Dhulagori Uttarpara Pry. School, Dakshin Sankrail High School, Sankrail Railway Station, Abada Railway Station, Nirmala Cinema, Dhulagori & Anita Cinema, Prabhu Jagatbandhu College, Jorehat, High Madarsa of Panchpara, New Andul H.C. High School, Sankrail Avoy Charan High School, Fakir Chand High School, Jorehat, Surut Mohan Pry. School
	Domjur	Mohisgote F.P. School, Rajapur Flood Shelter, Badampur F.P. School, Nanakundu F.P. School, Parbatipur Vidyapith, Paschim Narna Pry. School, Jamdanda Primary School, Sardanga Primary School, Keshbpur Rang Para School, Nehru Valika Vidyalay, Jhauarber Primary School, Biprannapara Primary School, Bankra Badamtala Girls School, Tentulkuli High School, Bachhurgote Primary School, Amria Primary School, Jabdadpoda F.P. School, Dighirpar Primary School, Bankra Misrapara Primary School
	Bally Jagacha	Uttar Joypurbill Primary School, Thauranichak Primary School, Nischinda Chittaranjan Valika Vidyalay, Nisco Mazdurline Hindi Janata School, Chamrail High School, Khalia Primary School, Santinagar Sapuipara F.P. School, Ramchandrapu Primary School, PallyMongal High School, Madhya Joypur Primary School
Uluberia	Bagnan – II	Harinarayanpur YWRC play ground at Hallyan G.P., Nalpur Park at Hallyan G.P., Rajballav Hat at Hallyan G.P., Chak Kamala Field st Orphuli G.P., Karbala Field at Mug Benapur G.P., Nowpala field at Saratchandra G.P., Bantul Duttapkur field near Antila Bridge at Bantul Baidyanathpur G.P., Dakshin Rabibhag field at Chandarbhadra G.P.
	Bagnan – I	D.M.B. High School, Bakshihat G.P. Office, Kalyanpur G.P. Office, Panitras High School, Kalyanpur High School, Bainan Bamandas High School, Bainan Girls' High School, Bainan G.P. Office, Khajutti High Madarsa, Subsiti G.P. Office, Khanpur Jr. High School, Natibpur Girls' High School, Haturia – I G.P. Office, B.N.S. High School, Jyotirmoyee Girls' High School, Haturia – II G.P. Office, Bangalpur U.C. High School, Nazrul Vidyapith, Bangalpur G.P. Office, Bagnan College, Bagnan High School, Tenpur Anantaram High School, Khalore G.P. Office
	Uluberia – I	Hirapur High School, Mahishrrekha Jr. Basic School, Khorla Moynapur High School, Samruk Sital Chandra Institution, Palpara High School, Kalinagar High School

	Uluberia – II	Basudevpur Ramkrishna Vidyamandir, Tehatta High School, Joargori Union High School, Desapran Pathagar, Kamina High School, Tulshiberia G.P Office, Embankment of Sarat Canal near Kamalachak Primary School, Kantaberia Junior School.
	Shyampur – I	Shyampur High School, Dingakhola High School, Rupnarayan Tourist Lodge, Hotel Mohana, New Chalantika Lodge, Hotel Mongal Deep, Gujrapur High School, Gujrapur Girls' High School, Shrikole High School, Radhapur High School, Baganda Jatadhari High School, Belari High School, Gutinagori High School, Kolia Amir Ali High School, Nabagram Boys Primary School
	Shyampur – II	Nowda Nayan Chand Vidyapith, Uttar Durgapur B.A. High School, Kultikari Jr. High School, Sasati N.K. High School, Bargram Anchal Vidyapith, Maula Netaji High School, Sasati N.A. High School, Khajri Tripura High School, Gobindapur N.S. Girls School, Kharuberia Pry. School, Annatapur Siddeswari High School, Ajodhya Belpur High School, Dehimondalghat High School, Shyampur Siddeswari College, Nakole High School, Khajnabahala High Madrasa
	Amta – I	Kanpur Sarat Sikshalaya, Purash Kanpur Girls School, Kanpur Haridas Nandi College, Purash Kanpur Natabar Pal High School, Ghoradaha Community Hall, Basantapur High School, Basantapur Ahamadia Madrasa, Rashpur High School, Rashpur Girls' High School, Baramophara Jatindranath High School, Ratanpota pry. School, DRA United High School, Anulia Girls' High School, Debandi High School, Jyotkalyan Pry. School, Amta Ramsaday College, Amta Nityananda High School, Udong. Uttarpara Pry. School, GKBR High School, Kardaha High School
	Amta – II	Uttar Bhatora High School, Bhatora Rajbanshipara Pry. School, dakshin Bhatora Pry. School, Bhatora Old G.P. Office, Bhatora Union High School, Chitnana High School, Kashmoli High School, Khalna RRG Institution Khalna Jogmaya Balika Vidyalaya, Chinrajole Narayani Balika Vidyalaya, Jhikira High School, Sibgachia Pry. School, Menoka Smriti Vidyamandir, Mohakalpur MC High School, B.B. Dhar Hospital, Chaksalkia Musulmanpara Pry. School, Thalia Union High School, Thalia SGRY Building. Sehagori Pry. School, Nawpara High School, Betai P.C. Pry. School, Khariop High School, Gazipur Girls High School, Sarda Dalui Mollapara Pry. School, Kushberia Mouza Baneswar Sikshayalay, Pansilas Boards Pry. School, Tajpur M.N. Roy Institution, Narit N.R. Institution, Sirol Pry. School, Ghatkul S.P. Institution, Mahisamuri High School, Surangamoyee Girls' High School, Joypur F.D. Institution, Jhamtia Pry. School, Jhamtia G.P. Office <b><u>Govt. Aided Rescue Shelter :-</u></b> Beral Rescue Shelter at G.B. Chintan G.P. (constructed by EEC), Bhatora, Darjipara Pry. School cum Rescue Shelter, Paschim Gazipur Pry. School cum Rescue Shelter.
	Udaynaranpur	Benagori Pry. School, Santoshchak Pry. School, Thakuranichak Pry. School, Monsuka High School,, Tokapur Pry. School, Harishpur Pry. School, Harali Pry. School, Sitapur Pry. School, Khadra Itrai Pry. School, Subalchak Pry. School, Chandchak Pry. School, Raghunathpur Pry. School, Borda Pry. School, P.R. Indumati Pry. School, Gaza Pry. School, Jonka Pry. School, Chakghora High School, R.G.B.C. High School, Udaynarayanpur S.C. Institution, Pancharul Srihari Vidyamandir, Kankrai Gangadhar High School, Manasree Gayaram M.E. School, R.P. Institution, Bhabanipur, Khalia Gopimohan Siksha Sadan, Borda Gangadharpur High School.

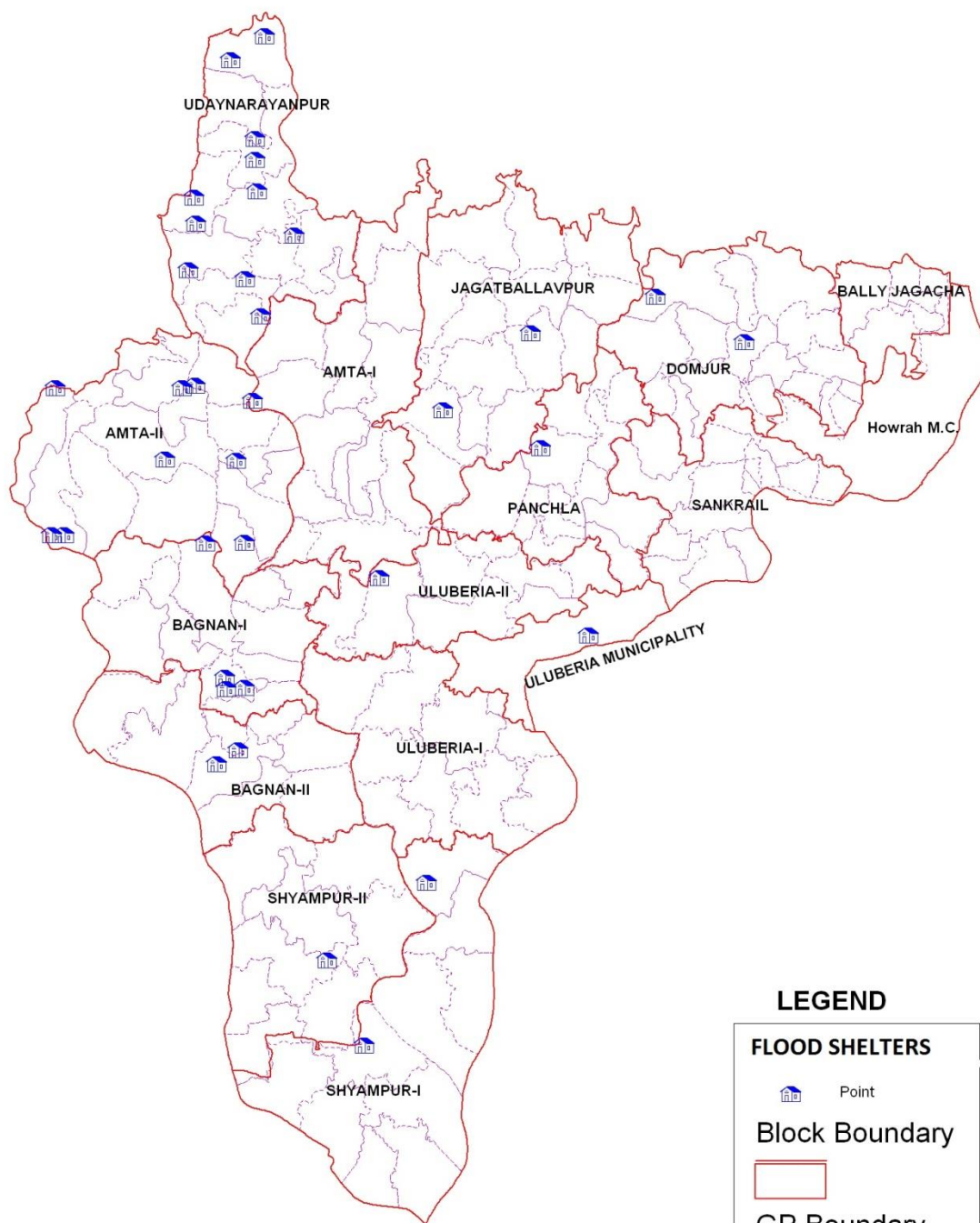
**REPORT OF GOVT. FLOOD SHELTER AS ON 31.03.2019 OF DISTRICT HOWRAH**

Sl No.	Name of the Block	Completed	Ongoing	Not yet Started
1	District Head Quarter	-	-	-
2	Uluberia, S.D.O Hd. Quarter	-	-	-
3	Domjur	2	-	-
4	J.B Pur	2	-	-
5	Panchla	1	-	-
6	Sankrail	-	-	-
7	Bally-Jagacha	-	-	-
8	Amta-I	1	-	-
9	Amta-II	9	-	-
10	Shyampur-I	2	-	-
11	Shyampur-II	1	-	-
12	Uluberia-I	1	-	-
13	Uluberia-II	1	-	-
14	Bagnan-I	4	-	-
15	Bagnan-II	2	-	-
16	U.N Pur	11	2	-
	<b>Total</b>	<b>37</b>	<b>02</b>	<b>-</b>

**STATUS REPORT OF RELIEF GO-DOWN OF HOWRAH DISTRICT**

Sl No	Name of the Block/ Sub-Division	Completed	Ongoing	Not yet Started
1	District Head Quarter	1(temporary)	-	-
2	Uluberia, S.D.O Hd. Quarter	1	-	-
3	Domjur	1	-	-
4	J.B Pur	1	-	-
5	Panchla	1	-	-
6	Sankrail	1	-	-
7	Bally-Jagacha	1	-	-
8	Amta-I	1	-	-
9	Amta-II	1	-	-
10	Shyampur-I	1	-	-
11	Shyampur-II	1	-	-
12	Uluberia-I	1	-	-
13	Uluberia-II	1	-	-
14	Bagnan-I	1	-	-
15	Bagnan-II	1	-	-
16	U.N Pur	2	-	-
	<b>Total</b>	<b>17</b>	<b>0</b>	<b>-</b>

# MAP OF HOWRAH SHOWING GOVT. AIDED FLOOD SHELTERS



**NAME OF GOVERNMENT AIDED FLOOD SHELTER (Completed)**

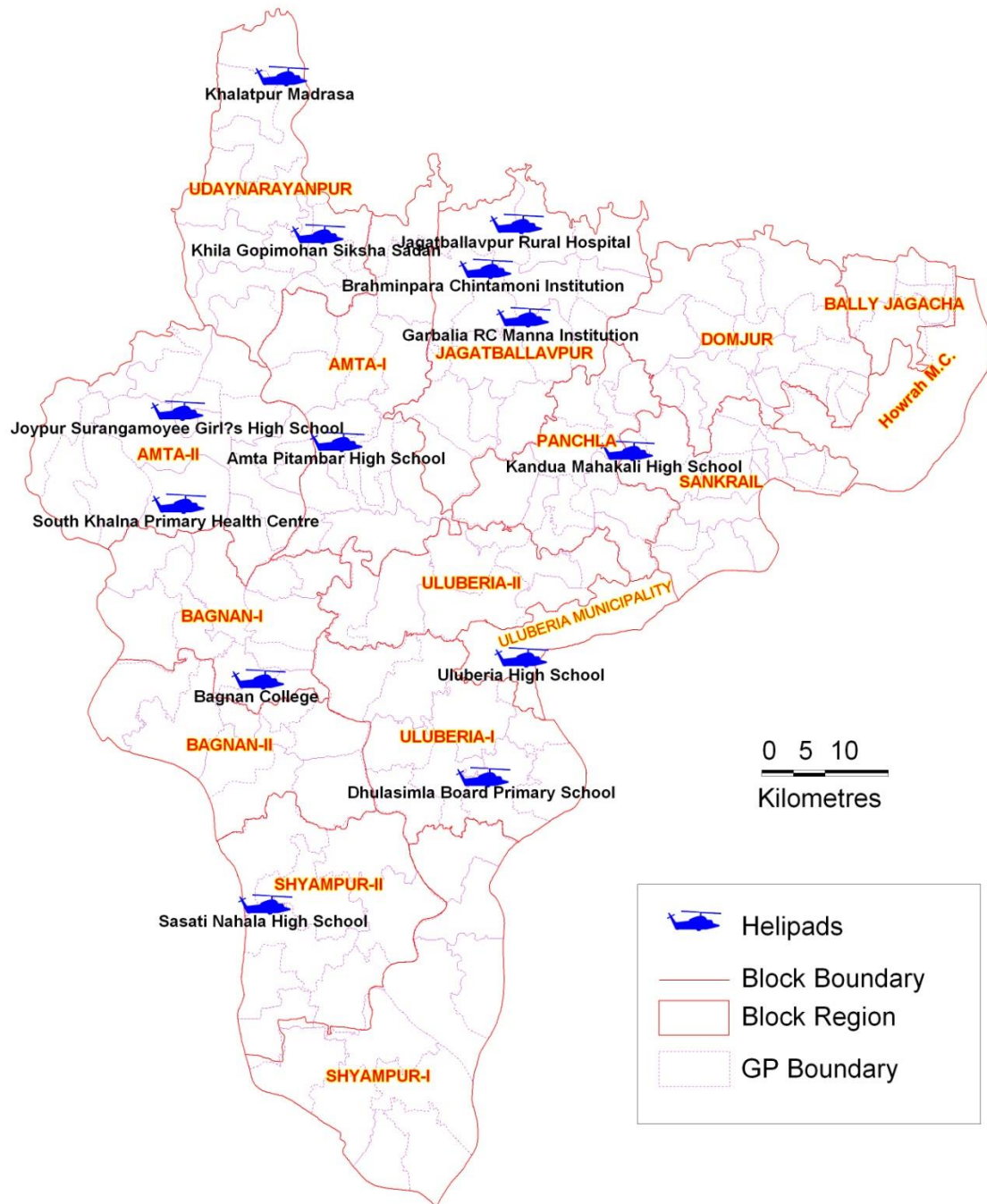
**AT DIFFERENT BLOCKS :**

Sl.NO.	Name of the Block	Name of the G.P.	MOUZA/ PLOT NO./ KHATIAN NO./J.L. NO.	Location		Remarks
				Latitude	Latitude	
1.	Jagatballavpur	Sealdanga	Ichhapur	22.63211	88.12161	
2.		Polgustia	Gouripur	22.59500	88.07594	
3.	Domjur	Uttar Jharpardah	Mouza- Rajapur. Dag No.-80, J.L. No.11, Khatian No.1	22.64949	88.18683	
4.		Uttar Jharpardah	Mouza-Domjur, Dag No. -938, J.L. No. 33, Khatian No.6089	22.62768	88.23295	
5.	Panchla	Banharishpur	Mouza - Banaharishpur, Plot No.-2551, JL No. 04	22.57667	88.12694	
6.	Uluberia-I	Ward-27	Latibpur/ KH- 1/3	22.48619	88.15172	
7.	Uluberia-II	Joargori GP	Jagarampur/ KH- 1/Jl No- 59	22.51390	88.04270	
8.	Shyampur-I	Shyampur	Shyampur	22.28857	88.03451	
9.		Dhandali	Ichhapur	22.36706	88.06731	
10.	Shyampur-II	Sasati GP	Gourangapur/ Jl No. 17	22.32967	88.01521	
11.	Bagnan-I	Bakshirhat GP	Malia/ Plot No. 487/ Jl No. 005	22.46058	87.96258	
12.		Bagnan- I GP	Bagnan/ Plot No. 472/ Jl No. 60 / KH 767	22.46600	87.96200	
13.		Bakshirhat GP	Kansara Kotai : Plot No. 415/ KH- 1	22.53100	87.97200	
14.		Khalore	Khalore / Plot No. 322, 384, 383/ KH 1	22.46100	87.97200	
15.	Bagnan-II	Bantul Baidyanathpur	Baidyanathpur	22.43113	87.96881	
16.		Bantul Baidyanathpur	Khanjadapur	22.42427	87.95769	
17.	Amta-I	Rashpur	Rashpur : Plot- 1521/ KH -120	22.59953	87.97632	
18.	Amta-II	Jhamtia GP	Dakshin Jaypur/ Jl No. 104	22.57125	87.93055	
19.		Kushberia GP	Sarda / Jl No. 128/ Plot No. 318	22.53552	87.95694	
20.		G B Chitnan	Beral/ Jl No. 82	22.53480	87.87144	
21.		Bhatora	Uttar Bhatora/ Jl No. 078	22.60550	87.87336	



Sl.NO.	Name of the Block	Name of the G.P.	MOUZA/ PLOT NO./ KHATIAN NO./J.L. NO.	Location		Remarks
				Latitude	Longitude	
22.	Amta-II	Joypur	Joypur/ Jl No. 71	22.60662	87.94661	
23.		Joypur	Joypur/ Jl No. 71	22.60567	87.93939	
24.		Gazipur	Gazipur / J.L.No. 109	22.57070	87.96800	
25.	UNpur	Rampur Dihibhurshut Asanda	Rampur : Plot - 969, Jl No.- 03	22.76362	87.96478	
26.		Rampur Dihibhurshut Asanda	Dihibhurshut : Plot -3145, Jl No.- 01	22.77518	87.98257	
27.		Harali Unpur	Harali : Plot - 1718, 1719, Jl No.- 05	22.73900	87.95607	
28.		Kurchi Shibpur	Jangalpara(Belgram): Plot -914, Jl No.- 036	22.71518	87.97743	
29.		Singti	Rajapur: Plot - 232(sabek), Jl No.- 34	22.70052	87.97862	
30.		Pancharul	Uttar Harishpur : Plot -2126, Jl No.- 22	22.68498	87.94683	
31.		Pancharul	Pancharul : Plot - 2920, Jl No.- 21	22.69732	87.94573	
32.		Debipur	Dakshin Manasree : Plot -456, Jl No.- 50	22.66228	87.94270	
33.		Gar Bhabanipur Sonatala	Kumarchak : Plot - 93, Jl No.- 046	22.65810	87.97230	
34.		Bhabanipur Bidhichandrapur	Chitrasenpur : Plot -345, Jl No.- 55	22.64023	87.98069	
35.		Kanupat Monsuka	Jaynagar : Plot - 780, Jl No.- 043	22.67898	87.99800	
36.		Bhowanipur		22.644756	87.968746	
37.		Parradhanagar		22.642447	87.969681	

# MAP OF HOWRAH SHOWING THE LOCATION OF HELIPADS



**LIST OF HELIPAD WITH LAT/ LONG OF LOCATION**

<b>Block</b>	<b>Location</b>	<b>Latitude</b>	<b>Longitude</b>
Amta – II	Joypur Surangamoyee Girl's High School	22.58803333	87.93035000
	South Khalna Primary Health Centre	22.54267093	87.93086593
Amta – I	Amta Pitambar High School	22.57288333	88.01430000
Shyampur – II	Sasati Nahala High School	22.34741634	87.97645192
Uluberia – I	Dhulasimla Board Primary School	22.40943333	88.09143333
Udaynarayanpur	Khalatpur Madrasa	22.75093960	87.98517287
	Khila Gopimohan Siksha Sadan	22.67402792	88.00438746
Bagnan – I	Bagnan College	22.45715951	87.97288927
Sankrail	Kandua Mahakali High School	22.56840714	88.16757171
Jagatballavpur	Jagatballavpur Rural Hospital	22.67896667	88.10911667
	Garbalia RC Manna Institution	22.63346856	88.11269028
	Brahminpara Chintamoni Institution	22.65702607	88.09275879
Uluberia Municipality	Uluberia High School	22.46782000	88.11174000

**Contact no.s(s) of officer-in-charge of different fire stations under  
Howrah District**

<b>Sl No.</b>	<b>Name of Fire Station</b>	<b>Officer-in-Charge</b>	<b>Mobile No.</b>
1	Howrah	Tapas. Kr. Banerjee	9674479138
2	Liluah	D.K Roy	9733757504
3	Bally	Laxmi Kanta Bag	7586849629
4	Shibpur	Pulack Sharma	9339775982
5	Alampur	Sunit Ranjan Chakraborty	9733691969
6	Uluberia	Kripa Shindhu Dey	8902792504

**Contact nos. of Mobile Treatment Units located at IEST,  
Shibpur, Howrah**

<b>Name of officer in charge of MTU</b>	<b>MTU-1</b>	<b>MTU-2</b>
Kaustav Chakraborty- Assistant Engineer, Mobile No – <b>9434029960</b> Amrit Kumar Das- Sub Assistant Engineer, Mobile No – <b>9874302019</b>	Sudip Sural- Operator Kaushik Das- Helper Hansalal Jadav- Driver	Subhash Ghosh- Operator Arindam Ghosh- Helper Shyamal Ghosh- Driver

Details of Ferry Ghat														
Sl No	Name of Ferry Ghats	Executed By	River Name	District	Panchayat Samity/ Municipality	G.P.	Jetty	No. of Boats/ launch			No. passenger /day	Distance from nearest light post	Nature	Remarks
								Launch	Motor Boat	Boat				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Bauria-Budge Budge	Hooghly Nadi Janpath Paribahan Samabai Samiti Ltd.	Hooghly	Howrah to South 24 Pargana	Uluberia Municipality		Yes	3			8000-9000	Near to Jetty	Crowded	
2	Sijberia to Kalibari	Do	Purano Khal	Howrah	Uluberia Municipality		No			1	200-250	500.0 m		
3	Bauria Thana ghat to I.O C. (Budge Budge)	Do	Hooghly	Howrah to South 24 Pargana	Uluberia Municipality		Yet to be started		3		700-800	Near to Jetty	Crowded	
4	Chengail – Pujali	Do	Hooghly	Howrah to South 24 Pargana	Uluberia Municipality		No		3		800-1000	20. K.M approx	Crowded	
5	South Bhatora Gopiganj	Do	Rupnarayan	Howrah to West Mednapur	Amta-II	Bhatora	No		2		2000-2500	100.0 m	Crowded	Bamboo Shanko. Approx 6.0 m length
6	Panseiuli to Marokhana via koihuri	Do	Rupnaryan & Mundeswari	Howrah to Hooghly to West Midnapur	Amta-II	Bhatora	No		2		2000-2200	30.0 m approx		People are using motor boat in rainy season from Pansuli to Morokhana in other season they are using Bamboo Sanko approx 100.0 m length due to insufficiency of water in the sea river boat cannot play smoothly at that time.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
7	Mankur-Belkota	Do	Rupnarayan	Howrah to East Mednipur	Bagnan-I	Bakshi Hat	No		1		100-150	15.0 m approx		
8	Bakshi-Dudkumra via chindan	Do	Rupnarayan	Howrah to West Mednipur	Bagman-I & Amta-II	Bakshi Hat & Joypur	No		3		200-300	75.0 mtr		
9	Bakshi to Par Bakshi	Do	Damodar	Howrah	Bagnan-I & Amta-II	Bakshi Hat-Kashmuli	No		1		100-120	30.0 m approx		
10	Hirapur-Nungi	Do	Hooghly	Howrah to South 24 Pargana	Sankrail	Sarenga	Yet to be started		4		600-700		Crowded	
11	Hayetpur-Nungi	Do	Hooghly	Howrah to South 24 Pargana	Sankrail	Sarenga	Yet to be started		3		1000-1200	2 Km	Crowded	
12	58 Gate-Burul	Do	Hooghly	Howrah to South 24 Pargana	Shyampur-I	Belari	Yes	1			1000-1200	15.0 m	Crowded	
13	Kantakhali-Borgachia	Do	Hooghly	Howrah to South 24 Pargana	Shyampur-I	Nabagram	No		1		50-70	Neat to jetty		
14	Falta-Bargachia (Dhaja)	Do	Hooghly	Howrah to South 24 Pargana	Shyampur-I	Nabagram	Yes		5		1000	300.0 m		
15	a).Gadiara Nurpur	Hooghly Nadi Janapath Paribahan Samabai Samiti ltd.	Rupnarayan	Howrah to South 24 Pargana	Shyampur-I	Baneshwarpur_i	Yes	3			1800-2000	Near to Jetty	Crowded	
	b).Gadiara-Geonkhali	Do	Hooghly	Howrah to East Mednipur	Do	Do	Do	Do			Do	Do		
16	Baganda-Naldari	Do	Hooghly	Howrah to South 24 Pargana	Shyampur-I	Dhandali	No		3		50	500.0 m		
17	Shibganj-Nainan	Do	Hooghly	Howrah to South 24 Pargana	Shyampur-I	Shibgang	Partly		4		600-700	200.0 m approx	Crowded	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
18	Garchumuk to Madhabpur	Do	Hooghly	Howrah	Shyampur-I & Shyampur-II	Bargram, Dhandali	No		2		200-250	90.0 m approx		
19	Raypur Main (Hiragang to Raypur Main.Kanjiak hali)	Do	Hooghly	Howrah to South 24 Pargana	Uluberia-I	Hirapur	Yes		2		300-400	400.0 m approx	Crowded	
20	Kantakhali-Raypur Subsidy	Do	Hooghly	Howrah to South 24 Pargana	Uluberia-I	Hirapur	No		3		800-850	30.0 m approx	Crowded	
21	Sankhbhanga-Raypur	Do	Hooghly	Howrah to South 24 Pargana	Uluberia-I	Dhulasimla	No		1		150	500.0 m approx		
22	Bansberia-Kultepara	Do	Damodar	Howrah	Uluberia-I & Bagnan-II	Chandipur & Chandrabhag	No		2		1500-2000	100.0 m		
23	Boalla-Downtala	Howrah Zila Parisad	Damodar	Howrah	Uluberia-I & Shyampur-II	Hatgacha-II & Amardaha	No		2		250-300	150.0 m		
24	Shyampur	Do	Damodar	Howrah	Shyampur-I	Shyampur	It is a Wooden Bridge made by Sri. Jayanta Pal. Owner of the river bank is Howrah Zilla Parisad and other side is Sri Jayanta Pal.							

### Drug Position of DRS - Howrah

Sl. No	Name of the Item	Stock in DRS as on 08.01.2019	Sl. No	Name of the Item	Stock in DRS as on 08.01.2019
1	Bleaching Powder	842 drum	2	Tab . Halogen	603500
3	Inj. AVS	215 amp	4	Normal Saline	7416
5	Ringer lactate	13440	6	Inj. T.Toxoid	14640
7	ORS lowosmolar	158900	8	Tab. Paracetamol	126850 (500)
					285600 (650)
9	Tab. Ibuprofen	1960750	10	Paracetamol Syrup	24000
11	Tab. Norfloxacin	218950	12	Tab. azithromycin	71100
13	Tab. Antacid	988900	14	Tab. Cotrimoxazole	Nil
15	Tab. Antihistaminic	2113750	16	Cotrimoxazole Syrup	Nil
17	Tab. Ciprofloxacin	N/A	18	Tab. Metrogyl	1383950
19	Gentamycin Eye/ Ear drop	N/A	20	Metrogyl Syrup	18285
21	Vitamin A Oil	N/A	22	B.B Lotion	3025
23	Antibiotic ointment	12074	24	Gauge	450
25	Cotton	2304	26	Bandage	1340
27	Plaster of paris	1750 (10 cm)	28	Syringe needle	7520 (23 G)
		1700 (15 cm)			12780 (24 G)
29	Transfusion Set	11050	30	Scalp vein Set	61400

## Contact Nos. of Private Owners for availability of Utility Tools.

Name of the Dev. Block	Sl. No	Name of the utility Tools/ Equipments	Ownership (Whether Govt/Semi Private/ Private)	Details of the custodians with address and contact persons	Remarks
<b>Panchla</b>	1.	Excavator, Earthmover, Tractor, Crane, Ladder	Private	Amit J.C.P. Vill+ PO- Mashila, Sankrail Howrah	9830661521
	2.	-DO-	Private	J.C.B. Shine Company, Jangalpara, Argori-Andul, Sankrail, Howrah	
	3.	-DO-	Private	Jogindar & Company Dhulagori, Sankrail, Howrah	9830042737
	4.	-DO-	Private	Umesh & Company Dhulagori, Sankrail, Howrah	9874560811
<b>Bally-Jagaccha</b>	5.	JCB Owner	Private	Susanta Construction, Bamundanga, Durgapura – II	9830304509
	6.	-DO-	Private	Shyamal Enterprise, Bamundanga, Durgapur – II	9836650951
	7.	-DO-	Private	Munna Road Movers, Dankuni, Hooghly	9038219935
	8.	-DO-	Private	S.K. Syndicate, Belghoria, Kolkata	9830530762
	9.	BOAT Owner	Private	Guiram Mondal, Paschim Durgapur(Hudutpara), PO-Samabayapara, Nischinda	9836779244
	10.	Boat Owner	Private	Lakshman Mondal, Paschim Durgapur(Hudutpara), PO-Samabayapara, Nischinda	8620060725
<b>Sankrail</b>	11.	Excavator, cranes, Jcb	Private	Ashis Kr. Maity	9674210051
	12.	Earthmover, cranes	Private	Amit kr. Ghosh	9830661521
	13.	Excavator, cranes, breakdown Van	Private	Ansari Crane Service	9831602679
	14.	Excavator, Earthmover, Tractor, Crane, Ladder	Private	Amit JCP	9830661521
	15.	Excavator, Earthmover, Tractor, Crane, Ladder	Private	JCP Shine Company	



Name of the Dev. Block	Sl. No	Name of the utility Tools/ Equipments	Ownership (Whether Govt/Semi Private/ Private)	Details of the custodians with address and contact persons	Remarks
Sankrail	16.	Excavator, Earthmover, Tractor, Crane, Ladder	Private	Jogindar & Company	9830042737
	17.	Excavator, Earthmover, Tractor, Crane, Ladder	Private	Umesh & Company	9874560811
Domjur	18.	Cranes - 01, Hydraulic- 01	Private	Swapan Ghosh, Pakuria, Ghoshpara. Domjur	9830654162
	19.	Crane(BD Van)-03 Hydraulic- 01	Private	Sk. Sajahan, Bankra Gazipara, Domjur, Howrah	9830239619
	20.	Ambulance	Private	Sk. Borhan Ali	9831983675
	21.	Ambulance	Private	Bapi Laskar	8276943911
	22.	Ambulance	Private	Debasish Saha	9239045921
	23.	Ambulance	Private	Sujit Ghosh	9874954536
	24.	Ambulance	Private	Rabi Burma	7890526854
	25.	Ambulance	Private	Arup Ghosh	9874090216
	26.	Ambulance	Private	Sanatan Santra	9143072900
	27.	Ambulance	Private	Bimal Santra	9674047172
	28.	Ambulance	Private	Chotu Pandit	9231274023
	29.	Ambulance	Private	Sanjay Tuti	8642848493
	30.	Ambulance	Private	Bapan Ghosh	9143743371
	31.	Ambulance	Private	Souren Bag	9674632812
	32.	Ambulance	Private	Laltu Mondal	9230604426
	33.	Ambulance	Private	Raju Chowdhury	8334906537
	34.	Ambulance	Private	Sonu Jain	9830936342
	35.	Ambulance	Private	Sk. Najrul Islam	9830773848
	36.	Ambulance	Private	Tinku Ghatak	9007295619
	37.	Ambulance	Private	Chandan Singh	8013484917
	38.	Ambulance	Private	Chotu Pollya	7278727018
Shyampur-II	39.	TRACTOR	Private	Swapan Das, Vill- Chandpur, PO- Sasti, Shyampur	8967296249
	40.	TRACTOR	Private	Haradhan Ghosh, Vill – Bardajpur, PO- Sasati, Shyampur	9093431687

Name of the Dev. Block	Sl. No	Name of the utility Tools/ Equipments	Ownership (Whether Govt/Semi Private/Private)	Details of the custodians with address and contact persons	Remarks
Uluberia - I	41.	JCB, Ex cavator, Earthmover, Tractor	Private	Ujjwal Kundu	9903335458
	42.	Breakdown Van, Crane	Private	Pankaj Singh	9330991210
Shyampur-I	43.	JCB	Private	Jishan	9007896805
	44.	JCB	Private	B B Kar	9732557014
	45.	JCB	Private	Mrityunjoy Das	9434023438
	46.	JCB	Private	Subrata Panja	9733526792
	47.	JCB	Private	Biswajit Khara	9732593029
	48.	JCB	Private	Sanyashi Khara	9732593029
	49.	JCB	Private	Mrityunjoy Das	9434023438
	50.	JCB	Private	Rashadul Islam	9732453085
	51.	JCB	Private	Manirul Molla	9733375475
	52.	JCB	Private	Sk Entaj Ali	9674117416
	53.	JCB	Private	Partha Kr Ghosh	9732583074
	54.	JCB	Private	Ramesh Ghosh	9647275784
	55.	JCB	Private	Dinabandhu Pramanik	9143122694
	56.	JCB	Private	Nirmal Bhowmick	9830413332
	57.	JCB	Private	Rakesh Rahara	9831898606
	58.	JCB	Private	Akhil Pramanik	9163483512
	59.	JCB	Private	Subir Das	9830608640
	60.	JCB	Private	Maidul Maji	9836733891
	61.	JCB	Private	Nur Islam	9083358522
	62.	JCB	Private	Sukumar Das	9732906344
	63.	Ambulance	Private	Biswanath Mondal	7872486480
	64.	Ambulance	Private	Tapas Barman	9732413980
	65.	Ambulance	Private	Golok Ghosh	9733747405
	66.	Ambulance	Private	Manas Ghosh	9874702595
	67.	Ambulance	Private	Narayan Bera	9732597023
	68.	Ambulance	Private	Dushmanta Samanta	9564002949
	69.	Ambulance	Private	Chandan Mondal	7699704970
	70.	Ambulance	Private	Sukhen Adhikary	9732453540
	71.	Ambulance	Private	Sukumar Mondal	8013169768
	72.	Ambulance	Private	Khurigachi Tarun Sangha	7890842653
	73.	Ambulance	Private	Belari Pallibikash	9143122970
	74.	Ambulance	Private	Nabagram Star Union Club	9874073743
	75.	Ambulance	Private	Dhwaja Netaji Tarun Sangha	9748121358
	76.	Ambulance	Private	Alipur Sobnar Aage Ogrogrami Club	8158075745

Name of the Dev. Block	Sl. No	Name of the utility Tools/ Equipments	Ownership (Whether Govt/Semi Private/ Private)	Details of the custodians with address and contact persons	Remarks
UDAYNARAYANPUR	77.	Excavator, Earthmover & Hydraulic Tractor	Private	Sankar Dhank & Bapan Majhi, Vill – Nayachak, PO – KHILA	9732678706 9734847842
	78.	-DO-	Private	Moloy Dhara, Vill – Nayachak, P.O - Khila	9093648174
	79.	-DO-	Private	Dilip Bagui Vill + PO – Penro	7407538486
	80.	Earthmover	Private	Somnath Ghosh, Vill – Purpat, PO - Kanupat	9733755656
	81.	-DO-	Private	VILL – Rajapur, PO – Singti	9434365654
	82.	-DO-	Private	Sk. Hamid, Vill & PO – Kanupat	9733529527
	83.	Ambulance	Private	Mukherjee Ambulance	9735504948
	84.	Ambulance	Private	Furfura Sharif Ambulance	9732989965
	85.	Ambulance	Private	Tara Ma Ambulance	9732920905
	86.	Ambulance	Private	Sri Srima Ambulance	9732743620
	87.	Ambulance	Private	Mukherjee Ambulance	9734379336
	88.	Ambulance	Private	Furfura Sharif Ambulance	9775743215
	89.	Ambulance	Private	Furfura Sharif Ambulance	9732897589
	90.	Ambulance	Private	Mayer Ashirbad	9609076554
	91.	Ambulance	Private	Middya Ambulance	9733717477
	92.	Ambulance	Private	Middya Ambulance	9333161028
	93.	Ambulance	Private	Chatterjee Ambulance	9734343579
	94.	Ambulance	Private	Samanta Ambulance	9732811477
	95.	Ambulance	Private	Samir Panja Ambulance	9732986156
	96.	Ambulance	Private	Shib Durga Ambulance	9732713841
	97.	Ambulance	Private	Netaji Sangha Ambulance	8609136640

**Block Wise List of Boatmen under Howrah District**

Sl. No.	Name of Block	Name of Boatmen	Address	Contact No.
1	Shyampur-I	Tapan Burui	Ayma Gobardaha, Nabagram Sikipur, Shyampur , Howrah	9836571186
2		Chhattu Dhenki	-do-	7872402449
3		Rajkumar Shasmal	-do-	9051585540
4		Jhantu Dhenki	-do-	9674967420
5		Dilip Burui	-do-	9051282493
6		Jhantu Fakir	Mithakundu, Nabagram Sikipur, Shyampur , Howrah	9836040944
7		Ranajit Patra	-do-	8207080703
8		Bosudeb Patra	-do-	7076183195
9		Mithun Boyal	Barkolia, Nabagram Sikipur Shyampur Howrah	8617765627
10		Ranajit Shasmal	-do-	9093183710
11		Dhananjay Boyal	-do-	8017745280
12		Sukumar Dey	Mithakundu, Nabagram Sikipur, Shyampur , Howrah	7908229731
13		Pulin Boyal	Barkolia, Nabagram Sikipur Shyampur Howrah	9733889398
14	Sankrail	Arun Bej	Hirapur, P.S : Sankrail, Dist : Howrah	
15		Sariful Middey	Sarenga, P.S : Sankrail, Dist : Howrah	9836975924
16		Abul Basar	Manickpur, P.S : Sankrail, Dist : Howrah	9836141905
17		Subodh Kr. Samanta	Akra, Maheshtala P.S, South 24 Pgs.	9830045479
18		Sk. Ibrahim	Podrah, P.S : Sankrail, Dist : Howrah	8648931489
19	Udayanarayanpur	Kashi Malik	Vill-Pathigori,P.O-Chitrasenpur	Prodhan, GB Sonatala G.P.
20		Banshi Malik	-do-	
21		Tapan Malik	-do-	
22		Prabir Malik	-do-	

Sl. No.	Name of Block	Name of Boatmen	Address	Contact No.
23	Shyampur-II	Sukumar Manna	Sitapur, Amardah	9832671317
24		Rabin Manna	-do-	8768550315
25		Radhanath Kar	Amardah	9231269535
26		Tapan Pal	-do-	7718653776
27		Dinesh Maity	Naoda, Amardah	8768992611
28		Dilip Maity	-do-	9564556382
29		Sitaram Dhara	Paikbar, Amardah	7872841284
30		Bhupati Bej	Naoda, Amardah	7797229226
31		Sundar Mondal	Baraghughubesia	9733761381
32		Manindra Manna	Naoda, Amardah	7074801233
33		Bhim Bag	Baniya	9609386409
34		Malay Khanra	-do-	9564343820
35		Prasanta Dolui	-do-	8927696240
36		Brindaban Dolui	-do-	9564448641
37		Sanyasi Kulia	-do-	8759233587
38		Laksman Hati	-do-	7699339244
39		Samarendra Mondal	Dehimondalghat	9734848308
40		Gopal Barai	-do-	9903155918
41		Sk. Jahiruddin	-do-	9735909049
42		Sk. Sajet Ali	-do-	9091184193
43		Sk. Jabiruddin	-do-	8170834193
44		Sk. Alamgir	-do-	9182281496
45		Sk. Khalek	-do-	8597321484
46		Nuru Mallick	-do-	7407517253
47		Sital Dolui	-do-	7431873681
48		Nilkamal Das	Belpukur	9732060871

# Preparedness Measures

## **Department wise Preparedness Measures**

### **Irrigation :**

#### **Flood Control Room :**

**Flood Control Room will be centrally opened at Jalsampad Bhavan, Salt Lake with the Telephone Number : 033- 2321 8341**

During recent past, this division has taken up 15 nos. works under Howrah District under Core Plan, RIDF, OTACA. Nature of these works is of permanent nature of bank protection, flood protection, construction of sluice, culvert/bridges, improvement of drainage system and inspection path. Some of these works are nearing completion while the rest are in progress or just started. Status of all these works is attached.

#### **Condition of Sluices:**

There are numerous sluices under this division, some of which are old, dilapidated and defunct. Estimates are prepared phase-wise for maintenance of repairable sluices while depending upon availability of fund, replacement of an old dilapidated sluice structure with construction of a new one is taken up. During 2017-18, 20 nos. of sluices have been repaired and 3 nos. sluices have been constructed such as at Belari & Tawali along the right bank of river Hooghly and at Ateswari along left bank of River Rupnarayan respectively under Shyampur-I & II Block. However, as sluices cannot be made practically water proof, action will be taken to seal the sluice gates by using earth/sand filled poly bags whenever significant leakage through sluices is noticed.

Flood water that spilled over right bank of River Damodar at RDA G.P. under Udaynarayanpur block is accumulated in the catchment area of Taker khal in Harali mouza which is required to be drained into Upper Rampur Channel through effective operation Harali Sluice Gates. Opening of sluice gates at Harali often leads to law and order problem as people in Pursura block of Hooghly district get affected due to this and they insist to close the gates of this sluice structure. District administration may take up the matter with their counterpart in Hooghly District for amicable solution of this problem.

#### **Drainage Congestion Problems :**

Howrah Drainage Channel along with 5 nos. branch channels and Mahishdhara khal serve main drainage artery for Howrah Municipal Corporation area. These khals were desilted under JnNURM Project a few years ago which is presently functioning more or less ok. However, considering importance of Branch Channel-II & III, work of lining and clearance of further accumulated silt in these two branch khals have been completed. Desiltation of Baigachi Khal, Nayabaz Khal, Barjola khal, Gaighata khal, Maja Damodar River, Chapa Khal, Rajapur Main Channel at its upstream, Rajapur Branch Channel-I, Kamarnala Khal, Kuldhipi Khal, Jhamtia Khal, Medinipur Main Canal (Reach-VII), Lower Rampur Channel, Purana Khal, Gujarpur Khal, Nabin Babu's Khal and Mithakundu Khal have already been completed. Desiltation of Shortcut Diversion Channel is in progress & expected to be completed before onset of monsoon. Removal of water hyacinth from different Drainage channels are under process & to be cleared completely before monsoon and their maintenance work will be continued till October, 2018. Free flow of storm water discharge are expected to be carried through these channels after removal of water hyacinth if surface run-off from the surrounding catchment is allowed to flow into these channels unhindered. Sluice gate at Najirgunj over Howrah Drainage Channel is maintained properly and in operating condition.

However, as this sluice structure is located over Howrah Drainage channel which outfalls into River Hugly, tide lockage two-times a day during the period of high tide cannot be avoided.

#### **Removal of obstruction from River/Channel/Khal :**

All types of cross-bundh constructed by this office across any river/drainage channel will be removed on or before onset of monsoon. All types of boro-bundhs constructed across river/channel/khal by local Panchayet should be removed from Block level before 07.06.18. District Administration may pursue with the District Administration in Hooghly District to remove all boro-bundhs completely put up across river Mundeswari before 07.06.18, which, if not done, will otherwise adversely affect Upper Rampur Left Embankment and Hurhura Left Embankment, safety of which is the most important factor to save Amta-II Block from inundation.

#### **Flood fighting materials :**

Considering the condition of sluices which are not functioning properly, arrangement has been made to store empty cement poly bags at different locations under the jurisdiction of this division for sealing of sluices as per requirement as well as for urgent maintenance of embankment threatened due to collapse/erosion etc. To start with initial phase of monsoon, following quantum of empty cement poly bags will be stocked at the following locations:

1. Amta : 1,20,000 nos.
2. Seijberia : 30,000 nos.
3. Mahishrekha : 40,000 nos.

#### **Agriculture :**

Out of Net cultivable area of 79,880 Ha of Howrah about 55,000 Ha is either flood prone or prone to water logging. Out of 14 blocks, about 11 blocks viz. Udaynarayanpur, Amta-II, Amta-I, Bagnan-I/II, Uluberia-I/II, Jagatballavpur, Domjur, Panchla, Sankrail are flood prone and about 12 blocks are prone to water-logging except Shyampur-I & Shyampur-II block. Flood generally occurs in this district in two phases :

**(1) Early flood – During end of July to middle of August and**

**(2) Late flood - During middle of September to middle of October**

**Early flood :** Early flood occurs due to excessive rainfall causing water logging on farm lands. Mounting pressure due to overflow of water results into damage of the embankments of the River Hooghly, the Rupnarayan and the Damodar. Such overflowing condition of these rivers is also very common due to heavy discharge of water from the reservoirs. For this, a considerable damage takes place on crops like rice, jute, kharif vegetables, arum and flowers. Following measure may be taken to cope with this early flood situation after receding of flood water:

##### ***i. For irreparable damage and crop loss:***

- a) The Government farms will make additional staggered seed beds of short duration varieties as far as possible for supplying seedling to the nearby farmers for re-transplanting.
- b) Farmers will be advised to make additional seedbeds by staggered method for re-transplanting
- c) Double transplanting method with 4-5 seedlings may be helpful after recession of water for midseason occurrence of flood.
- d) Community nurseries may be organized for this purpose.



- e) Direct seeding of short duration varieties by using drum seeder in lieu of transplanting may save time and cost.
- f) Variety like Swarna Sub-I will give better result under this situation.
- g) Minikits of pulses like kalai / arhar and /or vegetables may be arranged for distribution among the farmers.

**ii. For recoverable damage:**

- a) Nitrogenous fertilizers may be used for top dressing @ 25 kg per ha for quick recovery of damaged plants , and fertilizers minikit may be supplied for distribution among farmers, local fertilizer dealers may be instructed to lift slow release fertilizers particularly neem coated urea in addition to their usual stock during the time of occurrence of early flood.
- Crop like Sugarcane faces little damage due to flood. Application of MOP will help in quick recovery of the crop.

**Late flood:** in case of late flood most of the crops goes to maturity stage and damage is irreparable. Hence recovery or re-transplanting is not possible and farmers may have to sacrifice returns from kharif crop. In this Situation following measures may be taken:

- a) Sowing of Rabi pulse and oilseed crops covering areas in addition to the normal one, Programme for Minikit distribution for this crops can be arranged.
- b) Growing wheat, boro paddy and rabi crops in larger areas to make over the crop loss and to compensate kharif return.
- c) Government farms have to keep dry straws as cattle feed for distribution among farmers.
- d) Seed requirements which would have not been covered by minikits are to be met from farmers' seed as well as seeds supplied by trade channels.
- e) Sufficient fund for crop loan in Rabi Summer season may be provided. Easy crop loans to be ensured by banks.
- f) Smooth flow of NPK fertilizer to be ensured from the month of October 2018 to February 2018

**For both early and late flood situation –**

- a) Sufficient publicity through printed /electronic media and local bodies like Panchayat and PACS may be given to make the farmers cautious for taking apprehensive measures regarding flood.
- b) To keep contact with Damodar Valley corporation during flood days to control over barrage outflow.
- c) **Overall as many farmers as possible will be covered under the benefit of Crop Insurance Scheme PMFBY.**
- d) **Farmers may be provided input subsidy under SDRF/ NDRF as per Govt. norms.**

**Drought :**

Drought generally occurs due to insufficient soil moisture required for crop growth. But as Howrah district is surrounded by 3 rivers and having a basin like topographical structure, and some blocks have back flash river irrigation facility, occurrence of drought is not very common here. Most of the irrigation comes from tidal water, tank/surface water and ground water. Though rarely, still drought may occur due to scanty rainfall and causes damage to crop production to the extent of more or less 10%.

***To cope up with drought following measures may be taken:***

- a) To arrange for exploitation of ground water if situation demands. To excavate the water harvesting structures well ahead.

- b) Drought tolerant Paddy variety like **Sahabhagi** may be grown and double transplantation method with 3-4 seedlings /hill may be adopted for occurrence of early-mid season drought.
- c) Farmers to be motivated for cultivation of less water consuming crops instead of rice particularly in Boro season. Less water consuming **SRI method** of Rice cultivation should be encouraged.
- d) To place requirement of Canal irrigation before DVC in the Zonal Committee Meeting
- e) So far retting of Jute is concerned and where there is scarcity of sufficient flowing water for quality retting, use of CRIJAF microbial formulation can reduce the retting period by 6 to 7 days.
- f) Repeated retting at the same stagnant water can be carried out with improved fibre quality compared to conventional retting with this process.
- g) To keep close liaison with Agri-irrigation, Agri-Mechanical Deptts. And WBSEDCL for ensuring proper functioning of the DTWs, MDTWs, RLIs and uninterrupted power supply for irrigation installations.

#### **Food :**

100/200 M.T of rice and 5 (Five) K.L of S.K.oil are kept as rolling reserve stock at M.R. Distributor / Dealers level during the monsoon period as preparatory measures. 5 KL of Kerosene Oil / Sub-division as rolling reserve stock are kept. Local shop keepers are also advised for keeping rolling reserve stock of Iodized Salt, Sugar, Edible Oil, baby Food, Chira, Gur etc.

#### **Animal Resources & Development :**

a. The Asstt. Manager, West Bengal Dairy & Poultry Dev. Corpn. Ltd., Salboni, PaschimMedinipur and Kalyani , Nadia respectively are requested to furnish a list of the cattle feed dealers in the district who will be directed to keep a buffer stock to meet up the local requirement of cattle feed in the case of exigencies'. Besides they will be requested to supply the required quantity cattle feed to the blocks for relief work as and when necessary.

b. The Deputy Director, Agriculture, Howrah being requested to keep a buffer stock of paddy / wheat straws produced at the different block/ district seed farms which will be required for the cattle relief work in the event of Natural Calamities .

c. Procurement of paddy straw locally or from the outside is very much difficult and troublesome due to scarcity as well as exorbitant rate of the same. In case of tremendous exigency, it may be done through inviting quotation, which must be authenticated by The Supdt. Of Agriculture Marketing Deptt. who is the authority in this respect would act accordingly for procurement of paddy straw by inviting quotation in case of exigencies.

d. Flood preparedness meeting with the Block Livestock Development Officer are being held at the district headquarters at the earliest where they are being directed to keep strict vigilance for any such situation of natural calamity as well as keeping a close liaison with the respective Block Development Officers.

e. The Block Livestock Development Officers will monitor and assist in procurement and distribution of feeds, fodder and Medicines & Vaccines with the assistance and advice of the Executives officers and Public Representatives of the respective Panchayet Samities.

f. The posted Veterinary Officers, Veterinary Pharmacists & LDAs will be responsible for combating any natural calamity with regards to animal health coverage under the leadership of the concerned Block Livestock Development Officers.

g. In cases of flood / water logging /emergency / other natural calamity, the District Magistrate will be requested for requisite fund for procurement of additional medicines, feed and fodders etc. for catering requirement of the affected areas besides normal departmental supply.

#### **Horticulture :**

##### **❖ Action Against adverse Climatic condition:-**

1. Preparation of Flowers & Vegetables seed bed should done in a staggered manner.
2. Raising of seedling of vegetable at upland area.
3. For quick drainage of flood water local barriers on drainage channel should be removed .
4. For better management at least 25 resource farmers in each G.P. of flood prone blocks are to be identified well ahead with suitable variety and quantati so that the seed for showing may be available if required.
5. Surplus seedling may be collected from neighbouring locality.
6. Farmers of flood prone area to be advised to plan for intensive Rabi & Summer Cropping Programme .
7. Requiring for certified seed are to be placed to seed supplying Agency well ahead for better achievement of Rabi Programme.
8. Elephant Foot Yam which planted in last month frequency of irrigation need to be increased irrigation water be percolation to the planting pit to avoid water loss.
9. Shade Net or Plastic tunnel can be used for cultivation of Tomato,Brinjal,Leafy Vegetables like- Amaranthus,Plalak & Pui etc. to protect high rainfall area.
10. Seedbom & seedball for making more number of seedling per unit area to avoid water lodging condition in rainy season in diffirent vegetable and flowering crops.
11. Excess rainfall/flooding area should be prefer floating seed bed specialy for vegetables crops to be grown short time to avoid water lodging condition.
12. Drought prone or hot climatic condition following those vegetable prefer for suitable grown like that-
  - Tomato – Sun master, Solar fire, Equinox, Sun Leaper
  - Squash- Summer & Winter
  - Melon- Honey Dew,Water melon
  - Spinach-Malabar,NewZealand

# **Response & Relief Plan**

## Response/Relief Plan

### Evacuation Plan for most vulnerable Blocks under Howrah District.

#### Name of the Block : Amta-I

Police station	GP name	Village name	Temporary rescue shelter	Location along with latitude	Location along with longitude	Maximum accommodation capacity	Name of para/lane from where people will come	Shortest route used by concerned villagers
Amta	Balichak	Balichak	Balichak high & attach pry School	22°34'33.78	88°0'34.32	600	Uttar Balichak,MaddhyaparaDakshinpara	Brick road
		Bagua	Bagua high & pry school	22°37'41.16	87°58'42	300	Balipara,chongdarpara	Brick road
		Bhojan	Bhojan pry school	22°36'54.84	87°58'40.68	200	Purbapar,muslimpara,roy para,uttar dey para	Brick road adjacent
		Khaira	Khaira High & pry school	22°37'23.76	88°0'34.62	250	Mahisya para,jasu para,bargakhatriyapara	Adjacent brick road
		Sahachak	Sahachak pry school	22°37'54.72	87°59'57.12	50	Polleypara,ghanta para,mondal para,sadhukhan para	Brick road
		Dhurkhali	Dhurkhali pry school	22°38'45.48	87°59'52.56	60	Dhurkhali paschim para,Purba Par,Madhya para	Brick road
		Banuchak	Banuchak pry school	22°38'22.92	88°0'23.34	50	Banuchak	Brick road
		Saibona	Saibona pry school	22°37'50.7	87°59'8.46	50	Saibona,chakjhinga	Brick road
		Sarpai	Sarpai pry school	22°37'29.04	87°59'1.8	40	Sarpai	Brick road
	Amta	Bajepratap	Bajepratap pry school	22°38'6.12	87°58'58.56	50	Chongdar para,Uttar Para,Hazra Par, kanrar para	Left embankment of damodar
		Amta	Amta Ramsaday college	22°34'33.6	88°0'37.5	2000	Dharapara,ruidaspara,bunglowpara	Amta college road
		Amta	Dharapara pry school	22°40'6.34069	88°1'40.916	300	Bunglow Para	Do
		Amta	Nityananda high school	22°40'32.844	88°3'14.148	500	Haritala,roy para,bargakhatriya para	Adjacent brick road
		Amta	Pitamber high school	22°36'59.16	88°2'18.54	1500	Ghoshpara,chandni	Do
		Amta	Amta girls school	22°34'33.6	88°0'37.5	1500	Melaipara,mansatala,kayastha para,neyogi para	Do
		Amta	Muktirchak Pry School	22°40'32.844	88°3'14.148	300	Muktirchak	Do
		Gujarpur	Gujarpur pry school	22°34'33.6	88°0'37.5	500	Boro tior para,brahaman para	Do
		Amta	Gagan Pry school	22°34'22.38	88°0'51.48	150	Haritala	Do

Police station	GP name	Village name	Temporary rescue shelter	Location along with latitude	Location along with longitude	Maximum accommodation capacity	Name of para/lane from where people will come	Shortest route used by concerned villagers
Amta	Kanupur	Kanpur	Purash Kanpur natabar pal vidyamandir	22'32"20.46	88'0"18.36	1000	Tarafdar para,paschim para,seth para,chatterjee para,ghosh para	Adjacent brick road
		Kanpur	Kanpur purash balika vidyalaya	22'32"8.52	88'0"38.64	800	Malik para,sekh para,tanti para, pal para	Adjacent brick road
		Kanpur	Kanpur sarat sikhalaya	22'31"37.32	88'0"33.48	700	Tamli para,seth para,Dhopa para,mukherjee para,bhattacharjee para	Adjacent brick road
		Par Kanpur	Par Kanpur pry.school	22'31"29.64	88'2"46.02	70	Par kanpur	Adjacent brick road
		Manikura	Manikura pry.school	22'31"30.48	88'1"19.26	60	Jele para,biswas para,naskar para	Adjacent brick road
		Ghoradaha	Ghoradaha SC Pry school	22'31"29.64	88'2"46.02	70	Khanka para,saha para	Adjacent brick road
		Barue	Mrityunjoy nagar SNSP Pry school	22'31"51.72	88'1"6.24	70	Sadgop para,Roy para,sekh para,narayanpur	Adjacent brick road
		Mato	Mato high school	22'32"18.84	88'2"46.26	1500	Brahaman para,dule para,barga khatriya para	Adjacent morum road & brick road
		Barue	Barue pry school	22'32"7.62	88'3"23.28	80	Mistri para,bhandari para,dule para,brahaman para	Adjacent brick road
		Purash	Purash Kanpur haridas nandi mahavidyalaya	22'32"8.52	88'0"38.64	3000	Purash	Adjacent concrete road
	Udang-II	Ranapara	Ranapara model pry school	22'33"24.36	87'59"35.88	500	Dhawa para,jele para, ranapara muslim para,ranapara dakshin	Embankment of irrigation
		Purba gazipur	GKBR High school	22'33"38.16	88'1"20.94	1000	Purba gazipur paschimpara(uttar & dakshinpara)	Concrete road adjacent to Sekh para,Khan para
		Deora	Deora Purbapara Pry school	22'34"22.38	88'0"51.48	400	Uttar Para,Dakshin para,Khan para	Adjacent brick road

Police station	GP name	Village name	Temporary rescue shelter	Location along with latitude	Location along with longitude	Maximum accommodat ion capacity	Name of para/lane from where people will come	Shortest route used by concerned villagers
Amta	Sirajbati	Mandaria	Mandaria bhabanmoyee pry school	22°35'7.95941	88°0'7.17901	120	Meyur para,koyal para	Concrete road sntoshnagar barababa mandir to koyal para
		Jyotkalyan	Jyotkalyan pusparani high school	22°35'16.9243	88°0'46.1873	400	Maji para,porel para,dhibar para	Brick road from dhibar para to jagannnathpur & howrah –amta road
		Milkichak	Milkichak pry school	22°34'55.6698	88°0'5.20078	60	Milkichak	Adjacent road from sirajbati to milkichak
		Sirajbati	Jagannathpur balipota pry school	22°34'57.1813	88°0'33.7447	120	Musulman para,uttar para	Adjacent brick road fromdighirpara to napitpara
		Santoshnagar	Santoshnagar pry school	22°35'13.9062	87°59'52.1966	80	Panja para	Do
		Aurgachi	Aurgachi Pry school	22°34'52.986	88°0'54.1362	60	Aurgachi,khumbakar para	Brick road from felu dolui house to chandi mandir
		Chotomahara	Chotomahara tarapada high school	22°35'39.9137	88°1'0.01006	500	Sarkar para,patra para,mondal para,koley para	Chotomahara to howrah-amta road & then newly built P.c.c road
	Anulia	Debandi	Debandi high school	22°34'19.02	88°0'33.24	1500	Purba para,mukta para	Amta-howrah road
		Danarapur	Danarpur pry school	22°38'2.24182	88°1'58.4298	50	Sardar para	Adjacent road
		Chalunia	Chalunia pry school	22°38'0.3462	88°2'32.9522	50	Chalunia para,roy para	Adjacent road
		Baneswarpur	BRA united high school	22°36'59.1163	88°2'19.4125	1000	Panchamandap,senapatipara	Panchamandap to school by foot
		Anulia	Anulia Mahamaya vidyamandir	22°35'17.82	87°59'50.4	1000	Mahis para,Majher para, Uttar para	Adjacent road
	Bhandarga cha	Bhandargacha	S.B.Girls high school	22°33'52.2	88°2'34.08	500	Brahaman para	Brick road from singhabahinitala to 10 no pool
		Ghoshpur	Ghoshpur pry school	22°33'40.26	88°2'21.18	700	Samanta para,jhapri para,maity para	Brick road from kazi para to samanta para
		Panpur	Panpur S.B high school	22°34'13.62	88°2'50.28	700	Majhi para,kathal para,kochal para	Brick road from muslimpara to school

Police station	GP name	Village name	Temporary rescue shelter	Location along with latitude	Location along with longitude	Maximum accommodation capacity	Name of para/lane from where people will come	Shortest route used by concerned villagers
Amta	Bhandargac ha	Panpur	Panpur pry school	22°34'13.62	88°2'50.28	200	panpur	Brick road from malik para to school
		DK.ramchandrapur	Dakshin Ramchandrapur Pry school	22°34'28.8	88°3'5.4	250	Sarkar para,kayastha para,kar para,mondal para,dadpur	Panpur pucca rasta
		Serapur	Singhabahinitala pry school	22°41'39.8396	88°3'25.4912	300	Mondal para,ghuku para	Brick road from singhabahinitala to 10 no pool
	Khardaha	Sonamui	Sonamui F.N high school	22°39'57.024	88°1'55.74	1500		Kalitala to GP office
		Sonamui	Sonamui girls school	22°32'42.78	88°0'26.1	1000	Kundu para,meyur para,samanta para,senapati para	Do
		Khardaha	Khardaha high school	22°31'51.54	87°59'37.92	3000	Bagani para,dakshin para,barui para	Udang fatepur to mansatala road
		Kumarchak	Kumarchak pry school	22°31'40.44	87°59'22.26	50	Das para, Langal para, maddhya para	Siber hana to school road
	Chandrapur	Mohisgoha	Mohisgoha Pry school	22°33'59.04	88°1'42.6	90	Bara Malik Para,Ghuku Para,Hazi Para,Bara bakuli Para	Adjacent brick road
		Chatra	Chatra Pry School	22°33'56.7	88°2'6.54	75	Mistri para,Bhaga para,Molla Para	Adjacent brick & morum road
		Chatra	Chatra Dakshin Harishpur Pry.school	22°34'17.94	88°2'23.64	110	Fultala,Uttar Para,Daki Para,Dule Para,hazra para	Through brick road
		Chandrapur	Chandrapur board Pry School	22°33'49.44	88°2'3.96	150	Mondal para,Bodhak para	Through brick road
		Chandrapur	Chandrapur Hedayat ali Khan MSK	22°33'49.44	88°2'3.96	200	Khan para,Mir para	Adjacent brick road
	Rashpur	Rashpur	Uttar rashpur Pry School	22°36'36.18	87°58'42.06	Talsahara	Amta Police station to balichak PMGSY road	Talsahara
		Rashpur	Rashpur High School	22°35'58.32	87°58'34.74	Paschim para,purba das para,roy para,pal para	Do	Paschim para,purba das para,roy para,pal para
		Rashpur	Rashpur Girls High School	22°35'51.96	87°58'37.2	Paschim deyashi para,mondal para	Do	Paschim deyashi para,mondal para



Police station	GP name	Village name	Temporary rescue shelter	Location along with latitude	Location along with longitude	Maximum accommodation capacity	Name of para/lane from where people will come	Shortest route used by concerned villagers
Amta	Rashpur	Kolikata	Kolikta pry School	22°35'49.98	87°58'50.88	50	Purba deyashi para,chunri para	Do
		Someswar	Someswar Somnathtala Pry school	22°40'24.2214	88°2'6.80752	50	Somnath tala ,brahaman para,mal para	Do
		Someswar	Someswar Kenyopara Pry school	22°36'6.66	87°59'27.78	50	Patra Para,kengo para	Do
		Kumaria	Kumaria pry.school	22°36'36.12	87°59'28.08	100	Uttar barga khatriya para,rajbanshi Para,Khamrui Para,dalui para	Amta Police Station to sahachak PMGSY road
	Khosalpur	Baramahara	Baramahara Jatindra Vidyapith	22°36'3.766	88°0'42.5753	300	Hazra para,senapati para, purba bargakhatriya para	Brick road from shibtala to sing para
		Chaltakhali	Chaltakhali basic pry school	22°37'53.0472	88°0'45.2262	50	Ghoshpara,muslim para,chongdar para	Brick road adjacent to chongdarpara & muslimpara
		Khosalpur	Khosalpur mechhoruddin pry school	22°37'23.7375	88°0'54.3369	50	Sepai para,Pramanik para	Brick road adjacent to pramanik para & sepai para
		Khosalpur	Khosalpur Pry school	22°37'6.11296	88°0'52.814	60	Purba para,santra para & Bargakhatriya Para,paschim para,malick para, dakshin para	Brick road adjacent to dakshin para & malick para

### Name of the Block : Amta-II

Police Station	Gram Panchayet	Village	Name of Temporary Shelter	Location with last & ling (Degree-Min-Second)	Maximum accomodation Capacity	Name of the Para/Lane from where people will come	Shortest route to be used by the concerned village
Joypur	Jhamtia	Teliberia, Khajurdaho	Jhamtia, Flood Shelter	Sabgachhtala N-22.34.165, E-87.55.50	250	Khajurdaho Uttarpara, Dakshin Para	Via shortcut Cannel ebankment
Joypur	Bhatora	Dorjipara, Gurdahapara	Uttar Bhatora Dorjipara Flood Shelter	Dorji Para Pry. School N-22.36.198, E-87.52.241	120	Uttar Bhatora Goap Para, Dorji Para	Via Dorji Para
Joypur	Bhatora	Uttar Bhatora	Uttar Bhatora High School	Uttar Bhatora N-22.59.55, E-87.86.02	500	Uttar Bhatora Kotal Para, Gayen Para, Goap Para	Uttar Bhatoria to High School
Joypur	Kashmoli	Kashmoli	Kashmoli High School	Kashmoli N-22.55.896795, E-87.88.377154	500	Kashmoli Mondal Para, Sekh Para	Kashmoli Kulia Riad
Joypur	G.B Chitnan	Beral	Beral Flod Shelter	Beral N-22.37.233, E-87.52.172	150	Uttar Beral Para, Beral Kumor Para	Beral Bondhu Road
Joypur	G.B Chitnan	Kulia	Bhatora Union High School	Kulia- N-22.55.81666666, E-87.86.89666	520	Ghoraberia, Godapara	Kulia Bhatora Mini Bazar Road
Joypur	G.B Chitnan	Chitnan	Chitnan High School	Chitnan N-22.53.743333, E-87.87.635	350	Chitnan Musalman Para	Chitnan Ghat to GP Road
Joypur	Jhakira	Jhikira	Jhikira High School	Jhikira N-22.62.36464, E-87.91.432	550	Jhikira Bargakhatriya Para, Musalman Para	Jhikira Bazar Road
Joypur	BK Bati	Hanidhara	Hanidhara Pry. School	Hanidhara N-22.61.315, E-87.96.85833	100	Hanidhara Purba Para, Madhya Para	Seoraberia to Damodar Bandh Road

<b>Police Station</b>	<b>Gram Panchayet</b>	<b>Village</b>	<b>Name of Temporary Shelter</b>	<b>Location with last &amp; ling (Degree-Min-Second)</b>	<b>Maximum accomodation Capacity</b>	<b>Name of the Para/Lane from where people will come</b>	<b>Shortest route to be used by the concerned village</b>
Joypur	BK Bati	Binola	Binola Krishnabati Pry. School	Binola N-22.60.40166666, E-87.96.7383333	100	Binola Krishnabati Madhya Para, Dakshin Para	Binola Road
Joypur	Amoragori	Mahakalpur	Mohakalpur MC High School	Mohakalpur N-22.62.881, E-87.93.600	500	Nakubar Burgakshatriya Para, Nakubar Pora Para	Kamarshal More to School
Joypur	Amoragori	Amoragori	Menoka Sriti Vidya Mandir	Amoragori N-22.60.7892, E-87.91.9475	650	Amoragori Madhya Para, Paschim Para, Kankrole Dakshin Madhya Para, Dakshin Paschim Para & Amoragori Uttar	Jhikira Amta Road
Joypur	Joypur	Joypur	Joypur Surangamoyi Balika Vidyalaya	Joypur N-22.58.8033, E-87.93.035	400	Joypur Mondal Para, Santra Para, Sitala Tala	Joypur Bagnan Road
Joypur	Thalia	Bhateghori	Bhateghori New Setup Upper Pry. Vidyalaya	Bhateghori N-22.59.37333, E-87.95.78166	150	Bhateghori Paschim Para, Bargakhatriya Para	Jhikira Road

**Name of the Block : Udaynarayanpur Dev. Block**

Name of Police Station	Name of G.P.	Name of Village	Name of flood shelter	Location of the same with longitude and latitude	Maximum accomodation Capacity of temporary shelter	Name of the para/lane from where people will come here	Shortest route to be used by the concerned villagers (Nearest Bus Stand)
Udaynarayanpur	RDA	RAMPUR	RAMPUR TRAN SHIBIR	RAMPUR;N 22° 45.817' ; E 87 ° 57.887'	400	RAMPUR,ASANDA	RAMPUR BUS STAND
		DIHIBHURSHUT	DIHIBHURSHUT BUS STAND MULTIPURPOSE FLOOD SHELTER	DIHIBHURSHUT,N 22°46.511'; E 087°58.954'	750	DIHIBHURSHUT,ASANDA	DEHIBHURSUT
		DIHIBHURSHUT	RDA GP OFFICE	DIHIBHURSHUT; N 22.44'41.8";E 87.58'88.5"	150	DIHIBHURSHUT	RAMPUR AMTALA
		UTTAR RAMPUR	UTTAR RAMPUR JUNIOR CONVERTED BASIC SCHOOL	UTTAR RAMPUR,N 22.46'10.8";E 87.57'.54.5"	50	UTTAR RAMPUR	RAMPUR
		RAMPUR	RAMPUR PASCHIM PRATHAMIK VIDALAYA	RAMPUR	50	RAMPUR	RAMPUR
		ASANDA	ASANDA ADARSA SIKSHA SADAN	ASANDA,N 22.46'.10.8";E 87.58'.20.1"	200	ASANDA,DIHIBHURSHUT	RAMPUR AMTALA
		KHALATPUR	KHALATPUR HIGH MADRASA	KHALATPUR; N 22.45'04.1";E 87.59'02.7"	400	KHALATPUR,GHOLA	KHALATPUR MADRASA
		DIHIBHURSHUT	DEHIBHURSUT DAKSHIN PRY. SCHOOL	DIHIBHURSHUT; n 22.45'55.0";E 87.59'52.9"	150	GHOLA,DIHIBHURSHUT	DEHIBHURSUT PRY. SCHOOL STOPAGE
		GHOLA	GHOLA PRY. SCHOOL	GHOLA, N 22.45'.28.8";E 87.59'19.1"	200	GHOLA	GHOLA BUS STAND
	KURCHI SHIBPUR	JANGALPARA BELGRAM	FLOOD SHELTER	JANGALPARA,BELGRAM	750	TOKAPUR,JANGALPARA	COLD STORAGE STOPAGE
		KURCHI	KURCHI BINODBATI PRY SCHOOL	KURCHI;N 22.44'03.6";E 87.59'00.7"	30	KURCHI	KURCHI MORE
		TOKAPUR	TOKAPUR PRY SCHOOL	TOKAPUR,N22.43'27.1"; E 87.59'02.7"	100	TOKAPUR	GP OFFICE STOPAGE
		BELGRAM	BELGRAM PRY. SCHOOL	BELGRAM,N 22.42'53.2";E 87.58'40.9"	150	BELGRAM	BELGRAM SC. STOPAGE

Name of Police Station	Name of G.P.	Name of Village	Name of flood shelter	Location of the same with longitude and latitude	Maximum accomodation Capacity of temporary shelter	Name of the para/lane from where people will come here	Shortest route to be used by the concerned villagers (Nearest Bus Stand)
Udaynaraynpur	KURCHI SHIBPUR	GAJA	GAJA PASCHIMPARA PRY SCHOOL	GAJA,N 22.43'33.5";E 87.59'23.6"	450	GAJA	GAJA PASCHIMPARA
		SHIBPUR	BIRAJLAKSHMI VALIKA VISYALAYA	SHIBPUR;N 22.42'23.8";E 87.58'.43.0"	150	SHIBPUR	SHIBANIPUR BUS STAND
		HARIHARPUR	HARIHARPUR PRY. SCHOOL	HARIHARPUR;N 22.44'28.2";E 87.59'38.3"	100	HARIHARPUR	KURCHI MORE
		SHIBPUR	SHIBPUR DAKSHIN PRY SCHOOL	SHIBPUR;N 22.42'23.4";E 87.57'50.7"	150	SHIBPUR	CHARIR DOKAN
	DEBIPUR	Uttar Manashri	MANASRI GAYARAM HIGH SCHOOL	Uttar Manashri; N 22.40'003";E 87.56'56.2"	100	UTTAR MANASRI	CHACHA RD.
		Uttar Manashri	UTTAR MANASRI SAUPARA PRY. SCHOOL	UTTAR MANASRI; N 22.40'439"E 87.56'27.8"	150	UTTAR MANASRI	CHACHA RD.
		Dakhshin Manashri	DAKSHIN MANASRI PRY. SCHOOL	DAKHIN MANASRI;N 22.39'73.8",E 87.56'56.2"	100	DAKHIN MANASRI	CHACHA RD.
		DAKHIN MANASHRI	DAKHIN MANAHRI ORIENTED PRIMARY SCHOOL MULTIPURPOSE FLOOD SHELTER	DAKHIN MANASRI;N 22.39'73.8",E 87.56'56.2"	750	DAKHIN MANASRI	CHACHA RD.
		Avirampur	AVIRAMPUR PRY. SCHOOL	AVIRAMPUR ;N 22.40'44.9",E 87.57'28.5"	150	AVIRAMPUR	CHACHA RD.
		Debipur	DEBIPUR PRY. SCHOOL	DEBIPUR;N 22.39'88.9"; E 87.58'04.1"	100	DEBIPUR	CHACHA RD.
		Dakhin Singti	DAKSHIN SINGHTI PRY. SCHOOL	DAKHIN SINGTI;N 22.40'417",E 87.58.24.9"	150	DAKHIN SINGTI	PURPAT BUS STAND
		Ambagan	AMBAGAN PRY. SCHOOL	AMBAGAN; N 22.40'70.2";E 87.55'88.4"	125	AMBAGAN	CHACHA RD.
	G B PUR SONATALA	UTTARCHANDCHAK	UTTAR CHAND CHAK PRY. SCHOOL	UTTAR CHANDCHAK ;N 22.39'31.7",E N87.56'37.0"	100	UTTARCHANDCHAK	BANSTALA
		DAKHIN CHANDCHAK	DAKSHIN CHAND CHAK PRY. SCHOOL	DAKHIN CHANDCHAK;N 22 <sup>0</sup> 38' 565";E 87 <sup>0</sup> 56' 408"	150	DAKHIN CHANDCHAK	BANSTALA
		KUMARCHAK	KUMARCHAK PRY. SCHOOL	KUMARCHAK ;N 22 <sup>0</sup> 39' 585";E 87 <sup>0</sup> 58' 606"	100	KUMARCHAK	KUMARCHAK BUS STAND
		KANSONA	KANSONA PRY. SCHOOL	KANSONA; N 22 <sup>0</sup> 38' 596"; E 87 <sup>0</sup> 58' 911"	150	KANSONA	GHOSH PARA
		GOALABANDH	GOLYABANDH PRY. SCHOOL	GOALABANDH N 22 <sup>0</sup> 39' 399";E 87 <sup>0</sup> 57' 897"	150	GOALABANDH	CHACHA RD.

Name of Police Station	Name of G.P.	Name of Village	Name of flood shelter	Location of the same with longitude and latitude	Maximum accomodation Capacity of temporary shelter	Name of the para/lane from where people will come here	Shortest route to be used by the concerned villagers (Nearest Bus Stand)
Udaynarayanpur	SINGTI	JONKA	JONKA PRY. SCHOOL	JONKA;N 22.41'09.8";E 87.58'59'19.2"	100	JONKA	JONKA
		RAJAPUR	RAJAPUR MULTIPURPOSE FLOOD SHELTER	RAJAPUR,N 22°42.031' & E 087° 58.717'	750	RAJAPUR,AKNA,SENPUR	RAJAPUR BAMANPARA
		SHIBANIPUR	SHIBANIPUR PRY. SCHOOL	AKNA SHIBANIPUR;N 22.42'28.1"; E 87.59'09.1"	150	SHIBANIPUR	SHIBANIPUR BUS STAND
		THAKURANICHAK	CHAKTHAKURANI MAHAMAYA PRY SCHOOL	CHAKTHAKURANI ; N 22.41'51.2"; E 87.59'42.1"	100	THAKURANICHAK	BAMUNPARA
		CHAKGARA	CHAKGORA JIBANSMRITI VIDYAMANDIR	CHAKGARA ; N 22.41'55.5",E 87.59'19.2"	100	CHAKGARA	SHIBANIPUR BUS STAND
	KANUPAT MONSUKA	JOYNAGAR	JOYNAGAR PRY. SCHOOL	JOYNAGAR;N 22.40'061",E 87.59'110"	100	JOYNAGAR	JOYNAGAR BUS STAND
		JOYNAGAR	JOYNAGAR RLI MULTIPURPOSE FLOOD SHELTER	JOYNAGAR;N 22°40.739";E 087°59.880'	750	JOYNAGAR AND MONSUKA	JOYNAGAR BUS STAND
		MONSUKA	MONSUKA PRY. SCHOOL	MONSUKA; N 22.39'993", E 87.59'73.4"	100	MONSUKA	KANUPAT BUS STAND
		KANUPAT	KANUPAT HIGH SCHOOL	KANUPAT;N 22.40'028",E 87.58'37.9"	150	KANUPAT	KANUPAT BUS STAND
		PURPAT	PURPAT PRY. SCHOOL	PURPAT ; N 22.39'33.3",E 88.00'174'	100	PURPAT	PURPAT BUS STAND
		SONAGACHI	SONAGACHI PRY. SCHOOL	SONAGACHIN 22° 40' 826";E 87° 59' 881"	100	SONAGACHI	JONKA COLD STORAGE
		KANUPAT	KANUPAT JR. BASIC SCHOOL	KANUPAT ;N 22° 39' 953";E 87° 59' 175"	125	KANUPAT	KANUPAT MORE
	HARISHPUR	PENRO	PENRO INDUMOTI PRY. SCHOOL	PENRO;N 22° 42' 018";E 87° 58' 686"	125	PENRO	PENRO BUS STAND
	BHABANIPUR BIDHICHANDRAPUR	BIDHICHANDRAPUR	BIDHICHANDRAPUR MUSLIMPARA PRY SCHOOL	BIDHICHANDRAPUR ;N 22° 38' 321";E 87° 56' 912"	150	BIDHICHANDRAPUR	KHARIBON
		BIDHICHANDRAPUR	BIDHICHANDRAPUR HINDUPARA PRY SCHOOL	BIDHICHANDRAPUR ,N 22° 38' 258";E 87° 57' 288"	110	BIDHICHANDRAPUR	KHARIBON

Name of Police Station	Name of G.P.	Name of Village	Name of flood shelter	Location of the same with longitude and latitude	Maximum accomodation Capacity of temporary shelter	Name of the para/lane from where people will come here	Shortest route to be used by the concerned villagers (Nearest Bus Stand)
	BHABANIPUR BIDHICHANDRAPUR	BIDHICHANDRAPUR	BIDHICHANDRAPUR HINDUPARA PRY SCHOOL	BIDHICHANDRAPUR ,N 22 <sup>0</sup> 38' 258";E 87 <sup>0</sup> 57' 288"	110	BIDHICHANDRAPUR	KHARIBON
		CHITRASENPUR	CHITRASENPUR PURBAPARA PRY. SCHOOL	CHITRASENPUR N 22 <sup>0</sup> 38' 358";E 87 <sup>0</sup> 57' 797"	150	CHITRASENPUR	KHARIBON
		LALBENAGORI	LALBENAGORI PRY. SCHOOL	LAL BENAGORI ;N 22 <sup>0</sup> 38' 410";E 87 <sup>0</sup> 58' 838"	150	LALBENAGORI	GHOSH PARA
		BHOWANIPUR	GBPUR RAMPRASANNYA INST.	BHOWANIPUR N 22 <sup>0</sup> 38' 757";E 87 <sup>0</sup> 57' 920"	100	BHOWANIPUR	GHOSH PARA
		BHOWANIPUR	GBPUR HAROSAVA PRY. SCHOOL	BHOWANIPUR N 22 <sup>0</sup> 38' 958";E 87 <sup>0</sup> 58' 023"	150	BHOWANIPUR	BANSTALA
		BIDHICHANDRAPUR	BIDHICHANDRAPUR HINDUPARA PRY SCHOOL	BIDHICHANDRAPUR ,N 22 <sup>0</sup> 38' 258";E 87 <sup>0</sup> 57' 288"	110	BIDHICHANDRAPUR	KHARIBON
		BARDA	BARDA GANGADHAR HIGH SCHOOL	BARDA ;N 22 <sup>0</sup> 38' 598";E 87 <sup>0</sup> 58' 911"	150	BARDA	BARDA SCHOOL
		BARDA	BARDA NIMNA BUNIYADI PRY SCHOOL	BARDA ;N 22 <sup>0</sup> 37' 193";E 87 <sup>0</sup> 58' 149"	50	BARDA	BARDA SCHOOL
		RAGHUNATHPUR	RAGHUNATHPUR UTTARPARA PRY. SCHOOL	RAGHUNATHPUR N 22 <sup>0</sup> 37' 992"; E 87 <sup>0</sup> 57' 803"	150	RAGHUNATHPUR	SEAORABERA MORE
		UDAYNARYANPUR	U.N.PUR SARADA CHARAN INST.	UDAYNARAYANPUR; N 22 <sup>0</sup> 43' 18.1";E 87 <sup>0</sup> 58' 49.0"	50	UDAYNARAYANPUR	BUS STAND
	HARALI      U.N.PUR	HARALI	HARALI ORIENTED PRIMARY SCHOOL FLOOD SHELTER	HARALI ,N 22°42.939' & E 087° 58.661'	750	HARALI	HARALI KONCHOWKI
		PEARAPUR	PEARAPUR PRY. SCHOOL	PEARAPUR;N 22.43'56.6";E 87.57'09.7"	50	PEARAPUR	HARALI KOWNCHOUKI
		KHEMPUR	KHEMPUR UPPER PRIMARY	KHEMPUR;N 22.45'04.7";E87358'05.5"	50	KHEMPUR	RAMPUR

Name of Police Station	Name of G.P.	Name of Village	Name of flood shelter	Location of the same with longitude and latitude	Maximum accomodation Capacity of temporary shelter	Name of the para/lane from where people will come here	Shortest route to be used by the concerned villagers (Nearest Bus Stand)
	HARALI U.N.PUR	BAIRA KURCHI	BAIRA KURCHI PRIMARY SCHOOL	BAIRA KURCHI;N 22.44'43.9";E 87.58'42.0"	30	BAIRA KURCHI	VIMTALA
		SULTANPUR	SULTANPUR UTTAR PRIMARY SCHOOL	SULTANPUR;N 22.44'15.1";E 87.57'54.8"	100	SULTANPUR UTTAR,SULTANPUR,DAKHSIN	KONCHOWKI
		SITAPUR	HARALI U.N.PUR GP OFFICE	SITAPUR	70	SITAPUR	BUS STAND
		SITAPUR	SITAPUR ORIENT PRIMARY SCHOOL	SITAPUR,N 22.44'25.0";E 87.58'28.6"	100	SITAPUR	VIMTALA
		HARALI	HARALI GIRLS' PRY. SCHOOL	HARALI;N 22.44'37.6";E 87.57'11.4"	100	HARALI	HARALI CULVERT
		DAKSHIN RAMPUR	DAKSHIN RAMPUR U.PRY. SCHOOL	DAKSHIN RAMPUR;N 22.45'03.4";E 87.58'54.5"	50	DAKSHIN RAMPUR	VIMTALA
	PANCHARUL	PANCHARUL	PANCHARUL DWITYA PRY. SCHOOL	PANCHARUL;N 22° 42' 09.0"; E 87° 57' 21.2"	150	PANCHARUL	PANCHARUL BUS STAND
		PANCHARUL	PANCHARUL BUS STAND MULTIPURPOSE FLOOD SHELTER	PANCHARUL;N 22.41.839,E.87.56.744	750	PANCHARUL	PANCHARUL BUS STAND
		UTTAR HARISHPUR	UTTAR HARISHPUR PRY. SCHOOL	UTTAR HARISHPUR;N 22° 42' 07.1";E87° 57' 21.2"	120	UTTAR HARISHPUR	PANCHARUL BUS STAND
		KHARDA ITARAI	KHARDA ITARAI PRY. SCHOOL	KHARDA ITARAI,N 22° 42' 55.0";E 87° 56' 54.1"	50	KHARDA ITARAI	PANCHARUL BAZAR
		SANTOSHCHAK	SANTOSHCHAK PRY. SCHOOL	SANTOSHCHAK;N 22° 41' 06.2"; E 87° 56' 47.2"	100	SANTOSHCHAK	PANCHARUL BUS STAND
		SUBALCHAK	SUBALCHAK PRY. SCHOOL	SUBALCHAK;N 22° 41' 06.0";E 87° 55' 42.5"	145	SUBALCHAK	PANCHARUL BUS STAND



# **Reconstruction/ Rehab/Prevention / Mitigation Plans**

## **Reconstruction /Rehab/Prevention/Mitigation Plans**

### **Irrigation :**

#### **A. SHORT TERM MEASURES:**

1. Procurement of sand, sand bags and empty bags as flood fighting materials and storing them at pertinent locations well in advance.
2. Clearing of water hyacinth from major drainage channels and maintaining them up to end of monsoon.
3. Passing of information regarding heavy rainfall in Burdwan and Hooghly district for advance precautionary measure in Kandua basin under Jagatballavpur and Amta-I block area.
4. Temporary raising of right bank of River Damodar in Udaynarayanpur block with sand bags to the extent possible as and when necessary.
5. Temporary raising of both embankments of Short Cut Diversion Channel in Amta-II block with sand/earth filled bags to the extent possible as and when necessary.
6. Repairing of Hooghly Right Embankment at Bauria.

#### **B. LONG TERM MEASURES**

1. Continuation of strengthening work of Damodar Left Embankment in Amta-I Block as is done in Udaynarayanpur Block.
2. Lower Rampur Channel is the main receiving channel of flood water that is spilled over the right bank of river Damodar in Udaynarayanpur Block. Two numbers bridges over Lower Rampur Channel at Joypur-Beltotal and Kamargoria have very short span which obstructs quick passage of flood water. These bridges are to be widened as per requirement.

### **Agriculture :**

#### **TENTATIVE REQUIREMENTS OF INPUTS FOR EARLY & LATE FLOOD AND DRAUGHT**

WBSSC Ltd. will be requested to be prepared for supply of required quantity of seeds of specific varieties as follows-

#### **Drought :**

- Paddy(var-Sahabhagi) - 6 kg X 8000 Unit
- Brinjal (Var. Muktakeshi, Makra – 10 gm X 2000 Unit)
- Chilli – (Var. –Suryamukhi/Jwala - 10gm X 1000 Unit)
- Gr. Gram (Var. –Samrat ) - 4 kg. X 1000 Unit)
- Bl. Gram (Var.- WB 108) – 4 kg. X 1500 Unit)

#### **Early flood:**

- Bl. Gram (Var.- Pant U 31,19/ WB 108 – 4kg. X 2000 Unit
- Paddy seed  
(short duration HYV - SS-I /IET 4786 - 6Kg X 30000 Unit))

**Late flood :**

- Boro Paddy (Var – IET-4786/4094) - 6 Kg X 50000 Unit
- Wheat seed (Var.- PBW343, PBW443, K 9107) - 15 kg X 2000 Unit
- Mustard seed (B-9) - 01 kg. X 5000 Nos.
- Groundnut seed (AK 12-24/ ICGS-44)- 15 kg X 3000 Nos.
- Khesari (Nirmal/BIOL) - 04 Kg. x 10000 ha

**Public Health Engineering :**

Supply of potable drinking water to rural population of Howrah District through piped water supply schemes (47 Nos. under O&M and 18 Nos. ongoing) and also through hand pump tubewells is being done by Howrah Division, PHE Dte. thus ensuring drinking water security for the community. Covered population of Howrah District through various piped water supply schemes is 22,50,413 and the total number of functional tube wells/ spot sources are 14098. District laboratory at Domjur Sub District laboratory at Silampur and three other water testing laboratories are functioning together to test various chemical and bacteriological parameters of water ensuring its pot ability under Water Quality Monitoring & Surveillance Programme.

During disaster caused by flood or drought or during any form of epidemic, two nos Mobile Treatment Unit under Howrah Division, PHE Dte. is always ready to supply potable drinking water to the affected people and community.

# **Standard Operating Procedures (SOPs)**

## **Standard Operating Procedures (SOP) for Collector & District Magistrate & Various Line Departments :**

### **Collector & District Magistrate :**

1. Collector & District Magistrate will be the Incident Commander
2. Assigning specific responsibilities to different agencies
3. Coordination with all the line departments & other agencies
4. Liaison with Rev. Control Room/ /SRC
5. Ensure availability of Vulnerability map of the Sub Division / GPUs
6. Have a list of Resource Inventory, Capacity analysis
7. List of cut off areas with safe route map for communication.
8. List of storage facilities, dealers of food.
9. Control room setup/assignment of control room duty.
10. Pre-positioning of staff for site operation centers
11. Pre-positioning of staff for site operation centers
12. Arrangement of vehicles for evacuation.

### **SUPRINTENDENT OF POLICE**

1. Communication establishment with the District/ Sub-Divisional/ Block/GPU Control Rooms.
2. Overall traffic management and patrolling of all highways and other access roads to disaster sites
3. Identification of antisocial elements
4. Provision of security in transit camps/feeding centers/relief camps/cattle camps/cooperative food / Stores and distribution centers
5. Providing assistance to district authorities for taking necessary action against hoarders, black marketers and those found manipulating relief material.
6. Coordination with SDRF(State Disaster Response Force)/NDRF/ Para-Military Forces etc.
7. Providing assistance to the community in organizing emergency transport or injured.
8. Prevention of commission of cognizable offences including all offences against property, human body and public tranquility.
9. Casualty information/ Disposal of dead
10. Family Liaison Officers:- The Police could appoint family liaison officers (FLOs) to the families of those who have died.
11. Media management
12. VIP Security
13. Crowd Management
14. Feedback/ assessment
15. Contingent planning.

### **Food & Supplies Officer**

1. Identification of Block & District Head Quarter.
2. Keeping list of Whole sell traders of local market.
3. List of storage agent's with quantity of monthly allotment & uptake.
4. Detail data on beneficiary /BPL scheme

5. List of Petrol pump dealer.
6. List of Medical Shops.
7. Diversion of essential commodities to affected pockets as & when requisition.

#### **PHED/ RURAL WATER SUPPLY & SANITATION DEPTT**

1. Communication establishment with District and Sub Division control rooms and departmental offices within the division
2. An officer to be appointed as nodal officer
3. Arrangement of water tankers and other temporary means of distribution and storage water
4. Adequate arrangement to provide water to relief camps/affected villages, alternate water supply arranged in feeding centers
5. Disinfections of water bodies
6. Identification of appropriate potable water supply
7. All staff informed about the disasters, likely damages and effects

#### **IRRIGATION & FLOOD CONTROL**

1. Communication establishment with District, Sub Division/GPs Control Rooms and departmental offices within the district.
2. An officer to be appointed as nodal officer.
3. Activation of Flashflood monitoring mechanism
4. Methods/ communication arrangement of alerting officers on various sites established
5. Mechanism evolved for forewarning settlements in the downstream/ evacuation/coordination with other dam authorities
6. Water level gauges marked
7. Inlet and outlet to tanks are cleared
8. An officer to be appointed as nodal officer

#### **AGRICULTURE**

1. Communication establishment with District and Sub Division/GPs Control Rooms and departmental offices within the division
2. An officer to be appointed as nodal officer
3. Information provided about the disaster and likely damages to crop and plantation
4. Organized transport, storage and distribution of seeds/fertilizers/pesticides
5. Cleaning operation carried out to avoid waterlogging and salinity
6. Surveillance for pests and diseases being carried out.
7. Establishment of public information centers requirements for salvage or re- plantation assessed damage
8. Identification of different areas to be affected by different hazards
9. Listing of irrigation sources with status
10. All staff should be informed about the disasters, likely damages and effects.

## **PUBLIC WORKS DEPARTMENT**

1. Communication establishment with District & Sub-Divisional Control Room
2. An officer to be appointed as nodal officer
3. Arrangement of extra vehicles/ heavy equipments, such as front-end loaders/towing vehicles/earth moving equipments /cranes etc.
4. Inspection and emergency repair for roads/road bridges/ underwater inspection /piers/concrete and steel work.
5. Emergency inspection by mechanical engineer of all plant and equipments.
6. Route strategy for evacuation and relief marked
7. Clearance of blocked roads.

## **TELECOMMUNICATION (BSNL)**

1. Communication establishment with District and Sub Division control rooms and departmental offices within the division
2. An officer to be appointed as nodal officer
3. Standby arrangements for temporary electric supply or generators Inspection and repair of poles etc.
4. Identification of materials required for response operations.

## **FIRE & EMERGENCY SERVICES**

1. Communication establishment with District and Sub Division control rooms and departmental offices within the division
2. An officer to be appointed as nodal officer
3. Arrangement of all necessary equipments required for SAR(Search & Rescue) during Disaster.
4. Mobilization of manpower for SAR in close coordination with District Control Room.

## **BLOCK ADMINISTRATION :**

1. **Preparedness Phase** : This phase will include taking all necessary measures for planning, capacity building and other preparedness so as to be in a state of readiness to respond, in the event of a natural disaster.
2. **Early Warning Phase** – This phase will include all necessary measures to provide timely, qualitative and quantitative warnings to the members of public & stakeholders to enable them to take preemptive measures for preventing loss of life and reducing loss/damage to the property.
3. **Response Phase** – This phase will include all necessary measures to provide immediate succor to the affected people by undertaking search, rescue and evacuation measures.
4. **Relief Phase** - This phase will include all necessary measures to provide immediate relief and succor to the affected people in terms of their essential needs of food, drinking water, health & hygiene, clothing, shelter
5. **Restoration Stage** – This phase will include all necessary measures to stabilize the situation and restore the utilities.

# **Annexure**



**On Site & Off site Emergency & Rescue  
Plan  
Of  
I.O.C.L., Mourigram**

# Emergency Response and Disaster Management Plan

## Of

### M/S INDIAN OIL CORPORATION LIMITED, MOURIGRAM OIL TERMINAL

#### 1. INTRODUCTION

MOURIGRAM OIL TERMINAL of INDIAN OIL CORPORATION LTD. is situated at MOURIGRAM, DIST HOWRAH IN WEST BENGAL. The Terminal was commissioned in the year 1967. PRODUCTS ARE COMING FROM HALDIA REFINARY THROUGH PIPE LINE. It plays a crucial role in the distribution of petroleum oils to HOWRAH, HOOGHLY, KOLKATA, NORTH 24 PARGANS, SOUTH 24 PARGONAS AND PARTLY MIDNAPUR, BARDWMAN & NADIA. It occupies an important place in the Indian Oil distribution network. The products handled by the Terminal are MS, HSD, SKO, MTO and ATF.

The Terminals activities are confined for receiving, storing and dispatching of refined petroleum products to the consumption centers and there is no refining/processing involved.

2. **LOCATION AND SALIENT FEATURES OF THE SITE:** The Terminal is located at MOURIGRAM in HOWRAH DISTRICT.

**TABLE 2.1 : SITE FEATURES**

Parameters	Details
Latitude & Longitude	Latitude 22°35'21"N Longitude 88°18'37"E
Mean Elevation of the site	12m above Mean Sea Level
Climatic condition	Tropical Type
Land acquired for the plant	56.5 acres
Land use	Industrial use
Major crops in the District	Rice, Potatoes, Coconut & Jute
Nearest Town	HOWRAH
Major Urban Settlement	HOWRAH
Nearest Railway station	MOURIGRAM (2 KM)
Nearest Airport	DUMDUM (25 KM)
Water Bodies	GANGES RIVER

#### 3. METEOROLOGICAL INFORMATION :

Temperature	:	Maximum 42 ° C / Minimum 9.2° C
Humidity	:	Maximum 86% / Minimum 52%
Rainfall	:	Max in 24 Hrs – 302 mm. / Min in 24 Hrs – 04 mm.

## **ON-SITE EMERGENCY PREPAREDNESS PLAN**

A major emergency in Mourigram Terminal is one which has a potential to cause serious injury or loss of life. It may cause extensive damage to the property and serious disruption in the functioning of the Terminal. Although the emergency may be caused by number of different factors, it normally manifests in three basic forms namely.

(a) Fire, (b) Explosion, (c) Toxic release. The major function of an emergency plan is to formulate a procedure for :

- Delegating specific assignments and avoid over lapping of activities.
- Controlling the emergency situation with minimum damage to men, materials and machine.
- Rescuing victims and treating them suitably.
- Safeguarding others (evacuating them to safe places)
- Identifying the persons affected / dead.
- Informing relatives of the casualties.
- Providing authoritative information.
- Preserving relevant records and equipments needed as evidence in any subsequent enquiry.
- Rehabilitating the affected areas.

### **THE SUBJECT PLAN MEETS:**

- a. The statutory requirements of Sec. 41(B) of factories Act. 1948,
- b. Statutory requirements as per Rule 13,14,15 & 17 of Manufacture Storage and Import of Hazardous Chemicals Rules 1989 (Notified under EP Act 1986).
- c. Rules on 'Emergency Planning. Preparedness and response for Chemical accidents as per notification 01. 1.8.96 from ministry of Environment and forests.
- d. The recommendations of OISD Guidelines on Emergency preparedness Plan for marketing locations of Oil Industry.
- e. IOCL Safety policy.

### **EMERGENCY:**

A major emergency is one which has the potential to cause serious injury / loss of life. It may cause extensive damage to property and serious disruption both inside and outside the plant.

Most of the major hazardous accidents come under two main categories namely :

- \* Events involving flammable materials
- \* Events involving toxic materials

### **ON-SITE EMERGENCY:**

An event that may cause serious injuries/loss of life / extensive damage to property / serious

disruption of work within the plant is called On-Site Emergency.

### **OFF-SITE EMERGENCY:**

Off-Site emergencies arise due to accidents which could affect the people and the environment outside the plant. In this case, it will be necessary to involve outside agencies.

### **DISASTER:**

This is a major catastrophic affecting the life of the community and the environment. The Genesis may be either On-site or Off-site emergencies.

"Emergency" usually refers to an unforeseen combination of circumstances or the resulting state that calls for immediate action. "Disaster" is defined as a sudden calamitous event bringing great damage, loss or disruption. Therefore not all emergencies are disasters. The degree and effectiveness of preparedness often spell the difference between emergency and disaster.

### **EMERGENCY / DISASTER MANAGEMENT PLAN:**

The Plan is the preparedness to respond to Emergencies/disasters. The plan tells the materials/resources. Agencies man power available for combating and specify the roles of each individual/agency in order to achieve appropriate and co-ordinate response with minimum loss of time and to achieve the highest effectiveness.

### **CONCEPT OF EMERGENCY OPERATION:**

The four elements of a comprehensive approach for managing emergencies are:

- Prevention - incorporates all those activities which eliminate or reduce the probability of a disaster occurring on-site.
- Preparedness - includes all activities necessary to ensure a high degree of readiness so that response to an incident would be swift and effective.
- Response - activities are all those measures taken during an incident which minimize damage to the plant and surrounding areas and prevent the loss of life.
- Recovery - contains those short-and long-time activities which return all systems to normal operations.

### **THE OBJECTIVES OF EMERGENCY PLAN ARE:**

- a. To minimize the effect on people and property
- b. To localize the emergency and control it at the earliest
- c. To minimize the adverse impact on the environment
- d. To ensure effective rescue operations and treatment of casualties
- e. To identify the personnel affected or dead and also inform the relatives
- f. To train the people to act swiftly and effectively with confidence
- g. To preserve relevant records and exhibits for future investigations into the cause and circumstances leading to the emergency.
- h. To restore the plant to normality at the earliest

### **OVERALL OBJECTIVES OF THE PLAN ARE**

- To localise the emergency and if possible eliminate it.
- To minimise the effect of accident on people and propane.

These are to be achieved by operating staff and emergency staff by using fire fighting equipments. Emergency shut off valves and water sprays. Minimising the effects will include rescue, first aid, evacuation, rehabilitation etc.

### **DURING EMERGENCIES**

- To provide basic guidance to the personnel for effectively combating such situations to minimize loss of life, damage to progeny and loss of property.
- To localize the emergency and if possible eliminate it
- To minimize the consequences of an emergency
- To prevent spreading of the damage in the other areas.
- To give necessary warning to Terminal personnel and neighborhoods
- To maximize the resource utilization and combined efforts towards the emergency operations.
- To mobilize the internal resources and utilize them in the most effective way.

### **ELEMENTS OF ONSITE EMERGENCY PLAN**

- Important elements considered in this plan are:
- Emergency Organization
- Emergency Facilities
- Emergency Procedures
- Communication during emergency
- Rescue transport and rehabilitation
- Role and responsibilities of key personnel and essential employees
- Mutual Aid
- Non-emergency activities related to Mock Drill, updating of emergency plan and augmenting special equipment and information in emergency control centre related to emergency management.

### **DURING NORMAL TIME**

- To keep the required emergency equipment in stock at right places and ensure their working condition.
- To, keep the concerned personnel 'fully trained in the use of emergency equipment.
- Preserving records, evidence of situation for subsequent emergency etc
- To practice emergency operations in the form of Mock-Drill and evaluate the preparedness.

### **SCOPE OF OSEP AT IOC-HMRPL**

This OSEP is prepared for industrial emergencies like fires, explosions, toxic releases, asphyxia and does not cover natural calamities and societal disturbances related emergencies Oakes strikes, bomb threats, civil commotions etc. Also the scope of this OSEP is limited to Onsite Emergencies and does not include measures for Offsite Emergency Management.

### **METHODOLOGY :**

The considerations in preparing this Emergency Plan include the following steps:

1. Identification and assessment of hazards and risks

2. Identifying. appointment of personnel & assignment of responsibilities
3. Identification and equipping emergency control centre, identifying assembly.
4. Rescue points, medical facilities.
5. Formulation of plan and of emergency sources
6. Training rehearsal and evaluation
7. Action onsite.

Earlier a detailed Hazard Analysis and Risk Assessment are carried out for the Terminal facilities and hazard their likely locations and consequences are evaluated, duly following the standard procedure.

#### **Maintenance of the Plan : It is the responsibility of the Management to**

- Conduct monthly drills involving all the personnel in the Terminal
- Conduct yearly exercises involving outside agencies
- Periodically review the plan and update the information and modify / improve the plan if warranted. No processing is carried out in the Terminal. The Facilities are meant for receiving, storing and dispatching petroleum products.

It is to be noted that the emergency plan is not a substitute for ensuring good standards of design, operation, maintenance and inspection in the plant. By maintaining high stands in these areas it is possible to reduce the risk of any emergency/accident.

#### **4. PROJECT DATA :**

4.1 The subject plan meets:

- a. The statutory requirements of Sec. 41(B) of factories Act. 1948,
- b. Statutory requirements as per Rule 13,14,15 & 17 of Manufacture Storage and Import of Hazardous Chemicals Rules 1989 (Notified under EP Act 1986).
- c. Rules on 'Emergency Planning. Preparedness and response for Chemical accidents as per notification 01. 1.8.96 from ministry of Environment and forests.
- d. The recommendations of OISD Guidelines on Emergency preparedness Plan for marketing locations of Oil Industry.
- e. IOCL Safety policy.

4.2 Emergency: A major emergency is one which has the potential to cause serious injury / loss of life. It may cause extensive damage to property and serious disruption both inside and outside the plant.

Most of the major hazardous accidents come under two main categories namely :

- \* Events involving flammable materials
- \* Events involving toxic materials

4.3 On-site Emergency: An event that may cause serious injuries/loss of life / extensive damage to property / serious disruption of work within the plant is called On-Site Emergency.

4.4 Off-Site emergency: Off-Site emergencies arise due to accidents which could affect the people and the environment outside the plant. In this case, it will be necessary to involve outside agencies.

4.5 Disaster: This is a major catastrophic affecting the life of the community and the environment. The Genesis may be either On-site or Off-site emergencies.

"Emergency" usually refers to an unforeseen combination of circumstances or the resulting state that calls for immediate action. "Disaster" is defined as a sudden calamitous event

bringing great damage, loss or disruption. Therefore not all emergencies are disasters. The degree and effectiveness of preparedness often spell the difference between emergency and disaster.

4.6 Emergency / Disaster Management Plan: The Plan is the preparedness to respond to Emergencies/disasters. The plan tells the materials/resources. Agencies man power available for combating and specify the roles of each individual/agency in order to achieve appropriate and co-ordinate response with minimum loss of time and to achieve the highest effectiveness.

4.7 Concept of emergency operation:

The four elements of a comprehensive approach for managing emergencies are:

- Prevention - incorporates all those activities which eliminate or reduce the probability of a disaster occurring on-site.
- Preparedness - includes all activities necessary to ensure a high degree of readiness so that response to an incident would be swift and effective.
- Response - activities are all those measures taken during an incident which minimize damage to the plant and surrounding areas and prevent the loss of life.
- Recovery - contains those short-and long-time activities which return all systems to normal operations.

4.8 The objectives of emergency plan are:

- a. To minimize the effect on people and property
- b. To localize the emergency and control it at the earliest
- c. To minimize the adverse impact on the environment
- d. To ensure effective rescue operations and treatment of casualties
- e. To identify the personnel affected or dead and also inform the relatives
- f. To train the people to act swiftly and effectively with confidence
- g. To preserve relevant records and exhibits for future investigations into the cause and circumstances leading to the emergency.
- h. To restore the plant to normality at the earliest

## 5. TERMINAL DATA

Terminal	: Mourigram Oil Terminal
Address	: Indian Oil Corporation Limited Marketing Division Panchpara, Dist - Howrah West Bengal – 711317
Products Stored	: Motor Spirit (MS) Superior Kerosene Oil (SKO) High Speed Diesel (HSD) Aviation Turbine Fuel (ATF) Mineral Turpentine Oil (MTO)
Operations	: RECEIPT, STORAGE AND DISTRIBUTION
Terminal Data	: Total Licensed Tankage 145955 KL

Designation	Office	Residence	Mobile
MR. A. PRAMANICK, INSPECTOR OF FACTORIES	22486271		9433376469
DIST. ENVIRONMENTAL ENGINEER - WBPCB	26786710		
DIST. FIRE BRIDGE, HOWRAH	26668111		
IN-CHARGE, HMR PIPELINE DIVISION	26440238		9433034954
PIPELINE CONTROL ROOM	26448940		
GOVT. HOSPITAL, HOWRAH	26413400		
WEST BANK HOSPITAL	26445516		
INDUS NURSING HOME	26445323		
DR. S. SARDAR	26444642		
MR. S. BARDHAN, CH. TERMINAL MANAGER	26440751		9433034927
MR. C. ADHIKARI, SR. MANAGER (T)	26440315		9433141788
Cranes: M/s G N Enterprises		66246553	
Cranes: M/s MB Builders		66348202	
Power House: CESC			9831054647
Railway Station: Howrah		26411326	

**IMPO  
RTA  
NT  
TELE  
PHO  
NE  
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## **OFF SITE EMERGENCY PREPAREDNESS PLAN**

### **6.0 PREFACE**

Mourigram oil terminal of Indian Oil Corporation Ltd is located in the village of Panchpara of Howrah District. Terminal receives stores and delivers POL products to dealers and customers of Kolkata Divisional Office and locations of West Bengal State Office.

To reduce the risk involved in the handling of liquid Petroleum products various preventive measures have been taken. Selection of material, process, design features, control and safety interlocks, early warning system, process, instrumentation, built in safety system, preventive and predictive maintenance system, training for the employees to handle the POL products, good quality standard operating procedure are just to name a few. To reduce the intensity of an accident, terminal layout and fire protection, systems have been provided following the latest codes of practice. With all the preventive/predictive measures taken, the probability of an emergency occurring in the plant is very low. However, not complacent with the enforcement of well established safety management systems, IOCL has prepared this comprehensive.(Copy of layout with FF details is enclosed)



## **OFF SITE EMERGENCY PREPAREDNESS PLAN**

To tackle any type of emergency, if they arise. This plan outlines various built-in safety systems, emergency action for tackling credible failure scenarios, emergency organization, emergency communication Network, and role of key personnel during an emergency etc.

This of IOCL has been prepared and issued in such a way to be followed in letter and spirit for efficiently managing any off-site emergency.

### **7.0 INTRODUCTION**

This Off-Site Emergency Plan of IOCL aims at reducing the probability and severity of the emergencies created by an uncontrolled incident. The plan is prepared to reduce the suffering of the people and the damage to the property and equipment. It has identified the role of each of the agencies involved in combating the emergency. The plan has a multidisciplinary approach and is a comprehensive one to tackle any emergency caused by the plant.

IOCL receives stores and delivers POL products for customer and public distribution. The company is fully aware of the hazards of POL products such as fire, explosion and leakage and it has taken into consideration one to tackle any emergency.

Keeping all the above said factors in mind this plan is developed and key role to be played by the individual department are defined. To check the veracity of the plan, Mock drills will also be

conducted and any relevant observations made during the conduct of the drill will be incorporated to improve the plan.

### **8.0 SITE DESCRIPTION**

IOCL Mourigram Terminal at Mourigram will receive, and distribute 22815 KLs of Motor Sprit from 4 floating roof tanks, 47248 KLs of SKO from 5 cone roof tanks, 26433 KLs of ATF from 4 cone roof tanks, 4650 KLs of MTO from 1 each cone roof & floating roof tanks and 56284 KLs of HSD from 5 cone roof tanks. Located at Panchpara Village near Mourigram, Howrah. The nearest town is Andul, Mourigram Railway Station is 1 KM away from the site. DumDum Airport is 24 Km away.

The site is Located in Industrial Estate in an area of 56.5 acres of land. The terminal is only a supply and dispatching terminal. There is no manufacturing activities, that can generate any air or water or noise pollution in the terminal.

The terminal has been designed in such a way that it meets the requirements of Oil Industry Safety Directorate code and Explosive rules for the handling of Petroleum Products.

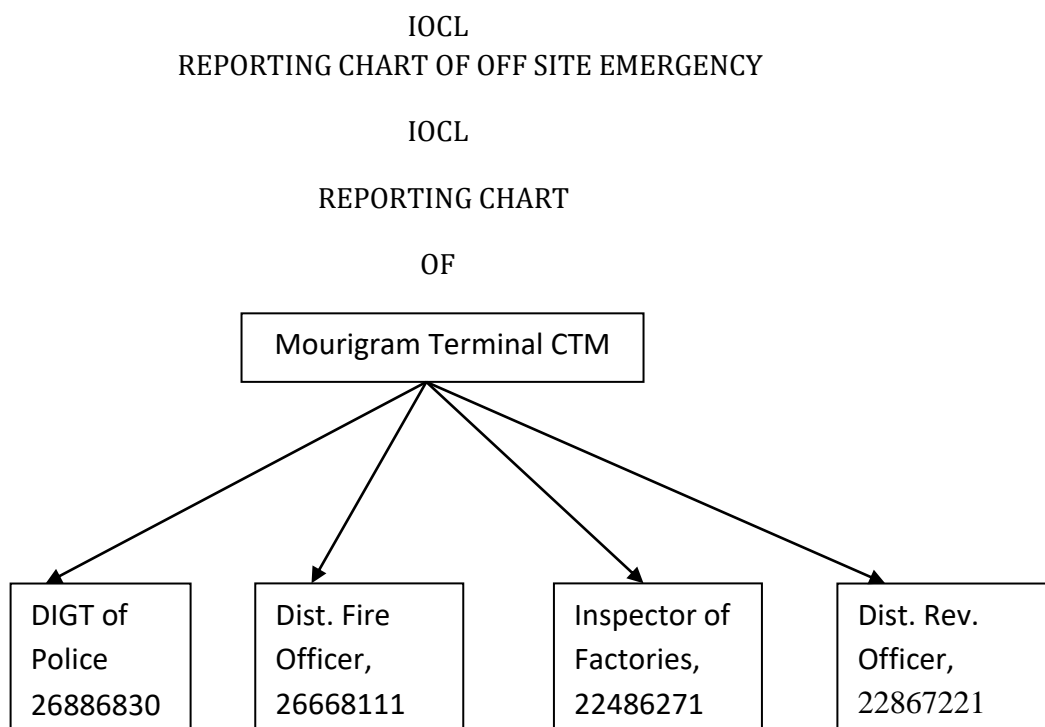
The prominent air direction during the year is from Northeast and Southwest and Southwest to Northeast.

### **9.0 DEMOGRAPHIC DATA**

There are one village in the neighborhood and in the range of 1 km from the site (in western side) . Except few no of "GUMTI" shop, collective's office, there is no other occupancy available within the

radius of ½ km. In southern side, there is one RO of Indian Oil, in eastern side, few unauthorized structure of “gumti shop”, in northern side, IOCL CFA (lube storage) and IOCL residential colony are available (which is already proposed for dismantling) Southern Total population within ½ km radius will be approx 8-10 thousand. Immediate hospital is West Bank, which is 1 Km away from the Terminal. Further, there is no religious establishments and old aged homes, etc., are available within the pervue of ½ km radius. cattle and livestock, flora and fauna are available at Western side near to the river Ganges. (1 km radial distance)

## 10.0 REPORTING CHART OF OFF SITE EMERGENCY



Category of Accident/ Classification of Emergency:

1. Reportable Accident (major o& minor) within the Licensed area
2. Other reportable accident (any fire within licenced area with duration of less than 15 minutes or any leakage without stoppage of operation or other incident outside licenced area, road accident)
3. Near miss incident (has potential to cause an injury or damage)

Incident Reporting:

Internal reporting:

- a) All incident to be reported to State head of IOCL and Regional HS&E Deptt
- b) Reportable accident to be reported by routing State head of IOCL and Regional HS&E Deptt to HO to Director(Mktg)

- c) Nearmiss to be reported by routing Employees to LIC to Regional HS&E Deptt

External reporting:

- a) The incident to OISD to be done by panelist of HS&E  
b) All incidents covered under Level-I and Level-II shall be reported to PNGRB in **Schedule-VI** including near miss incident (to be done by panelist of HS&E). The above report should be submitted within 48 hours after occurrence of the incidents.

## 11.0 HAZARD POTENTIALS IN THE TERMINAL

Fire hazard is the main potential concern which may arise due to leak near the exchange pit, or tank lorry loading bay and the chances of such fire is very much remote, as the terminal is very well equipped to take care to avoid leaks any time. Besides, foam makers are provided to take care of fire in the storage tanks based on sensors provided in the tanks. In this case, the cross country POL receipt pipe line protection in such a way that such leaks are not likely to happen. However, within terminal piping is above ground. The piping within the terminal is short and would regularly be inspected and maintained.

### RADIATION EXPOSURE AND LETHALITY:

Hazards to both human life and equipments / installations arising out of thermal radiation have been considered. A large fire may give rise to death or injuries in the form of burns of different degrees. Thermal radiation and the extent of burn injury depend on the time duration of such exposure. Even if such a thing happens it will be within the terminal and no scope to spread to outside.

### RADIATION LEVEL-DEGREE OF INJURY

Radiation level (kw /m <sup>2</sup> )	Degree of injury (Exposure time =10sec)
37.5	100% lethality
12.5	1 degree burn
4.5	Minimum distance required for fireman to operate.

Sl. No.	Location	Type of Accidents	System elements or events that can lead to a major accident	Hazards	Safety relevant components included in the design
1.	Exchange Pit in receipt area	Oil leak and fire	Oil leak from the pipe line joints, valves or due to corrosion	Fire in case of access to source of fire	The Pipe lines are fabricated as per relevant APL codes, and tested for leaks. Routine inspection as per OISD code will help avoiding leaks

2.	Tank Farm	Fuel leak from tank roof or through drains in FRVT s	Leak due to failure of monitoring tank levels or failure to monitor fuel escaping through the water drain line	Oil Leak.	Rader type level gauges are provided to monitor level high level/ alarms., high / high tripping and this will eliminate overflow situations. The density difference between fuel and water will avoid fuel migrating through drains. Periodic sampling& testing will also avoid fuel passing outside through the drain.
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Sl. No.	Location	Type of Accidents	System elements or events that can lead to a major accident	Hazards	Safety relevant components included in the design
3.	Product pump House	Product leak	Failure of pump glands, valve gland and joints.	Product leak.	Good maintenance practices & inspection procedures will avert such situation.,
4	Generator Room	Fire in the fuel tank ret	Return of hot fuel to the service tank	Fire	It will be ensured that generator will have adequate load to avoid fuel returning to the service tank. To avoid radiated heat and rise in temperature.
5.	Tank Lorry Filling shed	Oil leak	Failure of loading arm/hoses or overflow of tank trucks	Oil leak	Good inspection and maintenance practices will eliminate leaks due to hoses/arm. Computer loading have self diagnostic features for failures.
6	Tank lorry decanting shed	Oil leak	Failure of hoses	Oil leak	Good inspection and maintenance practices will eliminate leaks due to hoses.
7	Exchange Pit / Tank Farm	Oil leak and Explosion	Oil leak from the pipe line joints, valves or due to corrosion	** BLEVE	As mentioned in SL 1 & 2

The terminal is built in such a way that in case of any mishap the unit can be safely shut down of its own based on the interlocks provided as well as manually by pressing the relevant emergency stop switches of the individual section. All the employees are trained in safe startup and shut down activities and to handle emergencies. Standard operating procedures in corporation the details are available. Contractors and visitors are also informed about the hazard and necessary safety training is a part to them. However, outside personnel are not permitted inside the operating area.

## 12.OFF - SITE EMERGENCY ORGANIZATION

In case of an Off-site Emergency, the Chief on site Emergency Coordinator-Unit Head and Manager of the factory will report the matter to the collector of HOWRAH District and other Higher Officials

**Role of Chief Terminal Manager** When the emergency in the plant is likely to spread beyond the Terminal boundary and affect the nearby public, the information about the same will be passed on to the collector or his designated department officers.

1. Assist the District authorities in controlling the emergency and loss of life and property of both the public and the plant.
2. Inform all the authorities concerned as per the communication chart provided by the collector (Fire officer, Police DRO, Thasildhar, District medical Officer etc.,)

#### **RESPONSIBILITY OF DISTRICT EMERGENCY COMMITTEE :**

The industry is responsible to handle the emergency inside the plant and they should control the emergency at the earliest to avoid major damage to the personnel, environment and the machinery. However, when the control of the emergency is difficult and if it spreads beyond the terminal limits and threatens the safety of the public who are nearby the terminal it becomes an off-site emergency and the committee to handle the same under the chairmanship of the District collector will take over the control of the situation. The terminal authorities will extend all the necessary help to the District officials.

The following paragraph gives general guidelines of the authorities concerned during emergency.

While assigning the role, focus is given on the safety of the public and the environment.

#### **CHAIRMAN : ROLE OF THE DISTRICT COORDINATOR :-**

1. When information about the emergency is received from the one-site coordinator, arrange to inform the District Emergency Committee as per the communication network chart. Get all the relevant data from the plant and meteorological department and rush to the emergency control room and take charge of the situation and start controlling the emergency.
2. Declare an area of 2km around the Terminal as a Hazardous Zone.
3. Guide the police and Fire personnel to effectively control the emergency.
4. Arrange for the entire medical help through District Medical Officer and through nearby hospital.
5. Arrange for public announcing to inform the public and initiate the evacuation procedure
6. Give instruction to the police for effective control of the traffic and other law and order related areas.
7. Arrange for safe sheltering the evacuated persons in nearby schools, temples and marriage halls.
8. Arrange for food and other life sustaining requirements for the evacuees.
9. Direct the CESC Executive Engineer for uninterrupted water supply or for isolation of the supply as the case be.
10. Request Executive Engineer, PHE for uninterrupted water supply.
11. Arrange for press briefing.
12. When everything is safe, call off the emergency and check the area by visiting it.

## **DUTIES OF THE SERVICE GROUP :**

The service consists of the following members

1. Officer in charge – Warning and advice to the public
2. Officer in charge – Rallying post
3. Officer in charge - Parking yards
4. Officer in charge - fire services
5. Officer in charge – Civil Defense
6. Officer in charge - Transport
7. Officer in charge - Press and public relation
8. Officer in charge - Health and preventive medicine
9. Officer in charge - Treatment of affected persons
10. Officer in charge - Catering to the evacuees
11. Officer in charge - Agriculture

In case of emergency due to the leak of POL products, the area affected will depend upon the wind direction and the prevailing wind speed. Service group members should take immediate action for warning the persons who are likely to get affected areas to the safe place.

To judge the likely affected area wind roster diagram is enclosed as Annexure.

The approach roads to the plant; should be maintained in good condition by the highways department.

This is very important as the line for the vehicles coming for help to be made available always.

A vacant site to be earmarked as parking area of vehicles during emergency.

## **OFFICER IN CHARGE OF WARNING AND OPERATION :**

The superintendent of police of the district is the officer in charge of the warning and advice to the public.

## **NOTIFICATION OF OFF-SITE EMERGENCY :**

The collector will disseminate the codes for notification of warning and advice to the public about start/termination off-site emergencies to various agencies. Suitable communication devices should be available at his office.

### **Off site Emergency shall be notified as follows:**

This is to inform the start of CODE WORD such notification shall be by telephone or wireless and shall be followed by a message over the telex or through special message to provide a written record. The termination of the emergency shall also be notified likewise.

The DIG /superintendent of police of the district shall be notified of the occurrence of emergency condition by the District Collector. The initial message to the superintendent of police shall include the following details.

1. Type of emergency code words
2. Details concerning extent of emergency and probable affected areas

Acknowledgement of this information from the superintendent of police shall be in writing and in the following format.

Acknowledgement receipt of the following message from the District Collector. Start of the code word probable affected areas are-

**NOTIFICATION BY THE SUPERINTENDENT OF POLICE :**

Advice to the public must be clear, specific and rapid. Sirens and public address system can be used for this. Information should contain about the nature of incident, the degree of activity, the steps to be taken by the public etc. The announcement should be in Local language & English. A sample message is as follows:

“Flammable substance has leaked from the nearby POL terminal. There is a danger of fire. Please put out your house stove and lamps until further advice and keep the doors and windows closed. In case of evacuation be prepared after locking the valuable in the house. “Similarly calling of emergency to be announced to the public without fail.

Assembly Point at Chunavati Bus Stand & Mourigram Railway Station.

Salter at Thanamakahua Model High School (2 KM from Terminal).

**OFFICER IN CHARGE OF PRESS AND PUBLIC RELATION :**

The collector will nominate a media coordinator not below the rank of sub collector to coordinate with all the outside agencies like press. AIR and Doordharshan etc. depending upon the situation he has to release the messages to the concerned persons to tackle the situation effectively at the same time not to create panic among the people.

**OFFICER IN CHARGE OF PARKING YARDS:**

Collector will nominate an officer not below the rank of deputy collector who will take charge of the vehicle arrangement, parking and its movement for evacuation. He will be assisted by the Government officers to be nominated by the Collector.

The team will maintain proper account for the movement of vehicles, people their place of shelter and should pass the information to the concerned officials for arranging other facilities to the persons sheltered. If required these vehicle reporting for the emergency response can be fitted with public announcing system for effective communication during evacuation.

**OFFICER IN CHARGE OF TALLYING POST :**

An officer of the cadre of Panchayat shall be in charge of the rallying post. He shall be assisted by the following officials besides local Revenue inspectors. Villages administration officers and Village Nurse.

1. Panchayat Union Commissioner
2. Village Supply Officer or a Deputy Panchayat.
3. Sub Inspector of Police with one Head constable and six Constables.
4. Medical officer with adequate para medical staff.
5. Health inspector with his sub staff.

The team will take care of the following requirements of the public who are sheltered safely in a common place.

**SANITATION :**

This is very important and further complications. Sanitary inspectors of the respective area should have attendance round the clock until every thing is cleared and emergency is called off.

**WATER :**

Storage Tanks for water with arrangement to be arranged by Panchayat officers. Otherwise suitable illumination is to be arranged by the same officers.

**LIGHT :**

If electricity is available adequate lights to be arranged by Panchayat officers. Otherwise suitable illumination is to be arranged by the same officers.

**FOOD AND CLOTHING :**

The village Supply Officer and Deputy Thasildhar under the overall supervision of the District supply Officer shall provide cooked food and readymade clothing to the evacuees till they are rehabilitated. The district officials mentioned above will ensure that adequate quantity of food is available for distribution.

**WELFARE OF THE EVACUEES :**

The Officer in charge of the rallying post shall maintain a record of evacuees (under the Head-Male, Female and Children) and he shall be solely responsible for the overall activities of the rallying post.

**FIRST AID TO THE AFFECTED PUBLIC :**

The Medical officer and the Health inspector shall keep well trained personnel with the list of equipment detailed in Annexure II to give adequate First Aid Treatment to nearly among the public. The Medical Officer should also ensure that an ambulance is kept ready to shift the patients to the nearby hospital if required.

**REHABILITATION :**

The office in charge of rallying post shall arrange for rehabilitation of evacuees as soon as the emergency is called off.

The office in charge of civil defense should make adequate security arrangements in the rallying post, evacuated places and vacated residential areas round the clock until all the rehabilitation is completed.

**OFFICERS IN CHARGE OF ANIMAL HUSBANDRY :**

The Assistant Commissioner of animal husbandry shall appoint as many people as required with reference to the number of cattle population in the affected area, to look after the animal



and avoid them from the danger of the emergency. If required the animals can be housed in a closed building at a safe place. An action plan to be developed in this regard by the Joint Director of Animal husbandry and it is to be submitted to the collector for his approval.

#### **OFFICER OF AGRICULTURE :**

No crop damage is expected due to the leak in the Terminal. However Joint Director of Agriculture will prepare and send an action plan to the collector for his approval. He will be in charge to protect the food grains and crops.

#### **OFFICE IN CHARGE OF FIRE SERVICES :**

When information is received rushes to the spot and takes charge of the area and arrange for additional fire fighting tenders.

Get all the relevant information from the Terminal safety Engineer or fire fighting operations.

Inform the collector about the emergency and the connected action taken. Conduct rescue operation and arrange for safe transportation of the injured person if any. An action plan to fight the fire of the specific plant in reference to be prepared and submitted to collector for his approval.

#### **GENERAL :**

The population data to be worked out based on the details available with the village administration officers. Besides this, the gathering places can be places of worship like Temple, Mosque and Church. Apart from the local population the additional people gathered at any one or all the places of worship at the time of the emergency to be taken into account while controlling the emergency.

Mock drill in collaboration with external agencies should be conducted periodically to check the plan's efficiency.

Display of the emergency procedure in all prominent locations of the Terminal on both on site and off site emergency is necessary to disseminate. The details of the plan to the working people.

Though the action plan is prepared in detail, the entire machinery involved in the plan shall act according to the instructions of the Chairman of the District emergency Committee and the Officers for the duty in this plan ensure their fullest cooperation for the successful completion of this scheme.

1. When the information is received, arrange for mobilizing the spare buses available and wait at the nearest place from the spot of emergency in a safe place and wait for receiving the orders from the collector.
2. Depending upon the instruction evacuate the persons identified for evacuate the persons identified for evacuation to the nearby per marked shelter.
3. After evacuating the first batch inform the collector about it along with number of people evacuated and wait for further instruction.

#### **32.0 MOCK DRILL FOR OFF-SITE EMERGENCY PLAN:**

To check the effectiveness of the plan, periodic mock drill to be conducted. This will be conducted by the District Collector with the help of the officials concerned and the industry concerned. This said drill will be conducted once in year and the plan will be updated as per the feed back of the drill.

## **METHODOLOGY FOR THE MOCK DRILL:**

Just prior to the Mock Drill, a workshop will be held in which the District Emergency Committee and its sub-committee will discuss the steps involved in conducting the Mock Drill. The responsibility of each group will be spelt out and understood by the group and its members.

During the Mock Drill, the entire proceedings will be video graphed for further analysis and to educate the team members. The observation of the drill and its feedback sessions proceeding will be widely circulated to all the team members for further action.

## **REVIEW AND UP DATION OF THE PLAN :**

The Off-site Emergency Plan will b reviewed by the District Emergency Committee and the plant Manager once in year and updated if found required. The changes made if any, will be sent to all the department and persons concerned as per the distribution chart. The relevant paper will be replaced with the corrected ones in the master approved plan with the approval of the Chairman of the District off-site emergency committee.

## **POPULATION DETAILS :**

The details are furnished under Demography data.

## **OFF-SITE DISASTER :**

A Major emergency may affect areas outside the works and handling of such situation outside the factory premises will be covered by the Off-site emergency plan for the area. However, for release of toxic gases, in case of emergency, the works main controller should immediately inform the police and the railway authorities to stop road and rail traffic if the roadway and railway are near to the works and likely to be affected by the emergency.

## **OBJECTIVE:**

Once the declaration for major emergency is made, it is essential that outside emergency services, if they have not already been called on, are informed in the shortest possible time. This responsibility will rest with WMC.

If the emergency is in high risk areas, it is advisable to inform outside emergency services on all occasions because it is better for the emergency services to arrive to find a situation already control than to find one out of hand due to delay in calling.

## **AREAS WHERE OFF-SITE DISASTER MAY HAPPEN:**

1. FIRE/ EXPLOSION / BLEVE

2. T/T VEHICLE ACCIDENT
3. VESSEL ACCIDENT/ EXPLOSIONS ETC.
4. RIOTS, WAR, SABOTAGE
5. MOB VIOLENCE
6. FIRE IN NEAR BY HUTMENTS

#### **STEPS TOWARDS PREVENTION OF OFF-SITE DISASTER:**

- : Prevention of spreading of inside disaster to outside,
- : Control of disasters emanating from outside like hutment fire, flash back fire ETC. to inside
- : To move out people staying around to safer places in case of on-site disaster spot and removal of tank trucks to safer zones.
- : Mobilizing medical treatment and fire fighting equipments from outside.
- : Speedy communication to civil authorities, outside hospitals and fire stations. In the ensuing chapters on-site and off-site plans have been elaborated in details:

#### **EFFECTS OF DISASTER:**

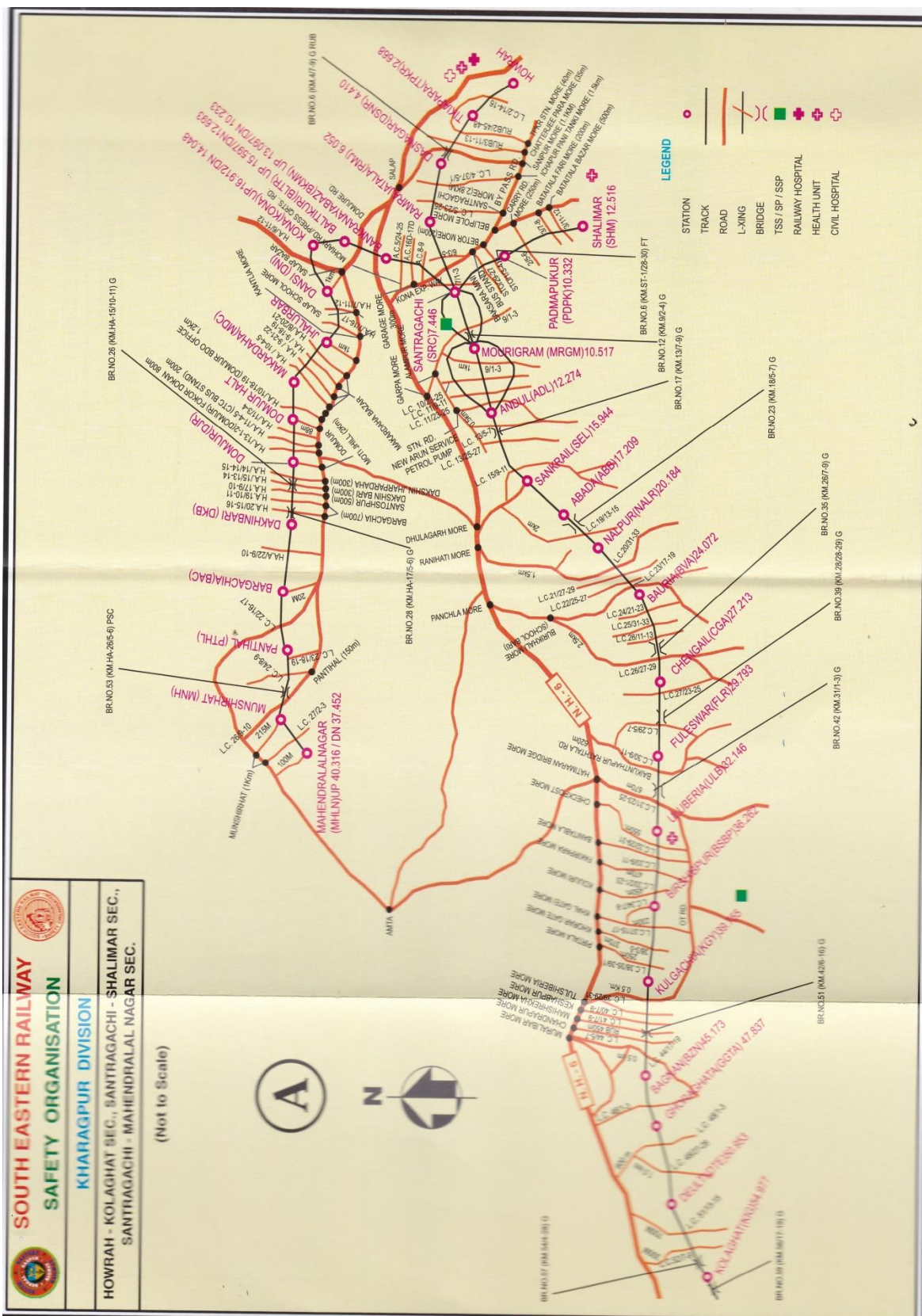
- : Loss of human lives/ injuries,
- : Disruption in POL supplies to defense, power plants and other customers,
- : Loss/ Damage to property,
- : Loss of production,
- : Demoralization of Employees/ Public,
- : Damage to building and other structures in the terminal,
- : Law and order problems,
- : Failure of communication system,
  
- : River pollution,
- : Disruption in railway operations.

#### **COMBATING PLAN:**

In case of hutment fire outside fire engine pump should start cooling the inside tank and also should start water spreading on nearby hutments on fire. In case of mob violence/ riots/ war/ blockage, plant authority should immediately get in touch with civil authorities within the shortest possible time. Mean while security should be advised to close all the gates and asked to maintained tight security round the clock. In case of leakage of product outside which leads to fire out sides fire alarm should be sounded and fire fighting team should operate as per responsibilities imparted. Oil water separator valve should be closed, any leakage should be blocked by putting sand bags and civil authority should be informed immediately. Put spread foam over the floor. All the oil should be salvaged to bring back normalcy.

In case of natural calamities all electrical connections should be switched off, all works should be stopped and all vehicles should be halted. Authorities must ensure immediate closing of oil/ water separator outlet in case of any tank collapse happens. One must avoid going on top of high structures and authorities should keep in touch with civil authorities.

**Disaster Management Plan (Excerpts)**  
**Of**  
**Kharagpur Division**  
**(Pertinent to Howrah District)**  
**South Eastern Railway**



**RAILWAY DISASTER MANAGEMENT PLAN**  
**SOUTH EASTERN RAILWAY**  
**KHARAGPUR DIVISION**

( excerpts from Disaster Management Plan, Safety organization Kharagpur Division, S.E. Railways)

**1.1. Background:**

Indian Railway came into existence with the running of the first train from Kurla to Thane in 1853. Ever since then handling train accidents has been priority area for the railways. Sharing of the Indian Railways' and Army Cranes as also their Medical Vans in times of a Train accident was an accepted system for handling disasters ( Rail Accidents).

With the gradual growth of Indian Railways and its transition to transportation of passengers and other goods including raw materials for industries etc the railway gradually built up its own infrastructure of Cranes, Accident Relief trains (ARTs), Accident Relief Medical Equipment's (ARMES). Till the beginning of the year, 2005, disaster on the railway in effect meant a serious train accident; Items of disasters viz. Floods, Earthquakes etc. were handled in an un-coordinated manner. Disaster preparedness of the Railways, mainly pertaining to handling train accidents, had been gone into by a High level Committee (HLC) in the year 2002/03 whose recommendations, where relevant have been kept in view in the preparation of Railways' Disaster Management Plan.

The situation has now changed with the promulgation of the Disaster Management (DM) Act in 2005. A disaster no longer means only a train accident, but scope has become much wider to include other incidents, terrorism related activity and natural calamities etc. The Indian Railways Disaster Management Plan has to be prepared on the principles now incorporated in the Act of sharing resources of all Government Departments along with Railways own resources available to handle serious train accidents, other mishaps, terrorism related crisis and natural calamities etc.

**2.1. Disaster Risks in India:**

India is vulnerable in varying degrees, to a large number of natural as well as man-made disasters. 58.6% of the land mass is prone to earthquakes of moderate to very high intensity; Over 40 million hectares (12% of land) is prone to floods and river erosion; of the 7516 km long coast lines, close to 5700 km. is prone to cyclones and tsunamis; 685 of the cultivable area is vulnerable to drought and hilly areas are at risk from landslides and avalanches, vulnerability to disasters / emergencies of Chemical, Biological, radiological and Nuclear (CBRN) origin also exists.

**2.2. Disaster defined in Railways' Context :**

The concept of a Disaster was till the year 2005, not adequately and comprehensively defined on Indian Railways. It was accepted that a Disaster situation implies, on the railways , to cover only cases of serious rail/train accidents.

The definition of DM as given by the Government of India was legislated for the first time in the Disaster Management Act,2005. The broad principles of disaster of any department of the government changed to the concept of any incident which could not be handled alone by that department i.e. if it was beyond the coping capacity of a particular department, the incident could be termed as a disaster. With this came the concept of the

departments of Government of India as also the State Governments required to join hands to extend whatever facilities were available with them to provide relief / rescue and mitigation on the occurrence of a disaster.

### **2.3. Strengths of the Railways to handle a Disaster :**

In handling disasters, Indian Railways is in a unique position as it has a number of strengths not available with many other departments of Government of India. These include:

- Railways' own Communication Network.
- Operating Control on each Division linked with each station.
- Territorial Army Units.
- Uniformed force RPF/ RPSF.
- Railways' own Medical Infrastructure.
- Civil Defence organization.
- An army of Gang Men spread out all over the Indian Railways.
- Scouts and Guides( they can at best provide background support).
- Dedicated Recue/ Restoration and Medical Equipment on Rails.

Each of the above can be made use of to handle adversities depending upon requirement to handle the disaster.

There are however, a few inadequacies in the Railways own resources which are very essential for handling a specific type of disaster as under:

- Non-availability of trained divers for extrication of passengers and / or casualties ( dead bodies and drowning / drowned passengers) from rolling stock fallen down in sea / river/ lake etc. Limited help of sports persons (Swimmers) can be taken for this; the time of their mobilization is a factor to be kept in view.
- Non-availability of cranes operated from ship / barge for lifting of the coaches / bogies from a water body.
- Ability to handle a CBRN Disaster and major fire.
- Limited resources to handle a terrorist attack on a train and / or a station, other railway premises etc.

### **2.4 Types of Disasters :**

Different types of disasters are described along with a few examples :

#### **(a) Natural Disaster**

Earthquakes, Floods, Cyclones, Land slides, Tsunamis etc.

#### **(b) Train Accident related disaster :**

Collisions ( with a huge number of casualties), Train marooned (Flash Floods), derailments at a bridge over a river and coaches falling down; train washed away in cyclone, derailment

of a train carrying explosives or highly inflammable material, tunnel collapse on a train, fire or explosion in trains and other miscellaneous cases etc.

### **(C) Man-Made Disasters :**

Acts of terrorism and sabotage i.e. causing deliberate loss of life and/or damage to property which includes :

Setting fire to a train, Railway installation etc., bomb blast at Railway Station/ Train, Chemical (Terrorism) Disaster, Biological and Nuclear Disaster.

## **2.5 Changed Philosophy of Disaster Management in the Railways :**

With the enactment of the Disaster Management Act, 2005 and other developments on the national level, DM philosophy has also changed to adopt the latest concepts.

### **New Philosophy**

- Serious train accidents, not the only events termed as disasters.
- Other events e.g. Internal security related events like terrorist attack at station / train, marooning of train due to flash flood, disruption to traffic due to natural factors like earth quake, cyclone, floods etc.
- No more Relief and rescue Centric.
- Holistic Approach adopted to incorporate :  
Prevention  
Mitigation  
Preparedness  
Rescue, Relief  
Rehabilitation

New philosophy gives Emphasis on Prevention and Mitigation as under:

- Prevent and mitigate disasters
- Audit Existing systems for Disaster resistance, Disaster Prevention and mitigation on the basis of NDMA's and self prepared guidelines.
- Disaster Management in Development Planning- new activities should be disaster resilient.
- Preparedness, Rescue, Relief and Rehabilitation- Dimensions of DM.
- Expertise based response from all stake holders
- Pooling of resources of all agencies e.g. Local administration , Community, defence, hospitals and other Govt. Organizations.

## **2.6. Definition of a Disaster on Railways :**

Based on the definition of the Disaster Management Act, 2005 Ministry of Railway has adopted the following definition of Railway Disaster :

**“ Railway Disaster is a serious train accident or an untoward event of grave nature, either on railway premises or arising out of railway activity, due to natural or man made causes, that may lead to loss of many lives and / or grievous injuries to a large number of people , and / or severe disruption of traffic etc. necessitating large scale help from other Government/ Non-Government and Private organization “**



## 2.7 Nodal department for policy Formulation on DM on Indian Railway :

The preparation of the Disaster Management Plans on Indian Railways and on the Zonal Railways in Co-ordination with the different Departments of the Railway, other Central / State Govt. agencies, NGOs, Private agencies, etc. has to be done by the Safety department in the Railway Board, on the Zonal Railways and Divisions.

The Hospital DM Plans and the Security arrangements (drills etc.) shall be prepared Co-ordinated by the Medical and Security Deptt. respectively.

The Management of Floods, Cyclones, Earthquakes, Landslides etc. and preventive action to be taken for mitigation shall be co-ordinated by the Civil Engg. Deptt. The rescue and restoration DM plans including preparing plans and procurement of specialized equipment and rescue centric training of personnel has to be coordinated by the Mechanical Department.

## 2.8 Authority to declare a Disaster on Railways:

Railway Board has also approved GMs, AGMs or CSOs (when GM/AGM are not available ) for declaring an untoward incident as Railway Disaster.

## 3.1 KGP DIVISION AT A GLANCE ( WITHIN HOWRAH DISTRICT)

1. a) SHM-SRC : Double line (Joint line & UP Goods line)
- b) TPKR-SRC : Fourth line.
- c) SRC-BLTR : Double line
- d) SRC-KGP : Triple line
2. Maximum permissible speed : 110 Kmph.
3. System of working / signaling system
  - i) a) TPKR-KGP : Automatic Signaling (MACLS).
  - b) All other sections : Absolute Block system (MACLS)
  - ii) RRI stations : 01 Nos. (SRC)
4. No. of Running Room provided
  - SRC : 1
  - ADL : 1
5. a) Location of ART : SRC- Class "B"
- b) Location of ARME (Scale-I) : SRC- Scale-I
6. Tower wagon based Shed : SRC, ULB.

( \*\* Station Code: SHM-Shalimar, SRC- Santragachi, TPKR : Tikiapara, BLTR- Belthara, KGp-Khaagpur, ULB- Uluberia)

## 4.1 Role of NDRF :

Assistance from local Government and Non-government agencies is invariably required by the Railway Administration for prompt relief and rescue operation in case of disasters affecting Railway assistance of NDRF could be of great help to the Railways in major railway disasters.

Details of NDRF battalion which deals with Railway Disaster in the jurisdiction of KGP division :

<b>Name / Designation of the Commandant</b>	<b>NDRF Battalion</b>	<b>STD Code</b>	<b>Office Telephone</b>	<b>Tele Fax</b>	<b>Address</b>
Sri Arun Kumar & Sri M.K. Yadav	4 <sup>th</sup> Bn. CISF (NDRF)	0671	2879711	2879711	P.O. Mundali, Cuttack, Orissa- 454006
Sri Sukhdev Raj	2 <sup>nd</sup> Bn. (NDRF)	033	9474116775 9474061104	25875032	2 <sup>nd</sup> Bn NDRF, Haringhata, Near PRI P.O. Mohanpur, Dist. Nadia

## **5.0 Kharagpur Division – Disaster Preparedness**

### **5.1. Self-propelled accident Relief Medical Van (SPAR-MV) at KGP ( Kharagpur).**

### **5.2 Accident Relief Medical Van (ARME) at SRC ( Santragachi).**

#### **5.2.1. Timely Dispatch of ARME/ MFD/ ENGG Materials :**

To ensure timely dispatch of ARME, MFD & Engineering relief train –

1. Sr. DOM/ Sr. DME/ Sr. DEE (OP) will ensure availability of crew & guard for ARME / MFD in time.
2. Sr. DOM will ensure immediate nomination of power & if no train power is available Sr. DME/ Sr. DEE(OP) will arrange power from shed / coaching lye over etc.

### **5.3 Position of ARME / MFD/ Crane in KGP**

<b>ARME / MFD/ CRANE</b>	<b>Location</b>	<b>Facilities Available</b>
ARME Scale I	Kharagpur	ARME with 3 coaches, 2 sets of Hydraulic Rescue Device/ Fit to run at 100 Kmph.
	Santragachi	ARME with 3 coaches, 2 sets of Hydraulic Rescue Device/ Fit to run at 100 Kmph.
ARME Scale II	Tamluk, Mecheda, Balasore, Baripoda	
MFD	Kharagpur	MFD (Maschinen Fabrik Deutschland : Hydraulic Re-railing Equipment )with 4 coaches , 1 BCN (Bogie Compressed Pneumatic) and 2 BRN with MFD hydraulic re-ralling equipment, additional power pack and control stand. Fit to run at 100 kmph.
	Santragachi	MFD (Maschinen Fabrik Deutschland : Hydraulic Re-railing Equipment )with 4 coaches , 1 BCN (Bogie Compressed Pneumatic) and 2 BRN with MFD hydraulic re-ralling equipment, additional power pack and control stand. Fit to run at 100 kmph.
Crane 140 T	Kharagpur	140 T Crane with 01 set of Lucas Hydraulic equipment with power pack, additional power pack and control stand. Speed potential of the crane is 100 Kmph.

## 6.0 Reporting of an Accident

a) Every railway servant shall promptly report any accident on the railway which may come to his / her notice

- i) to the nearest station master or
- ii) to any other such a responsible railway servant who may be promptly available.

b) Guard and Driver of the train, the Station Master, any officer or a Senior Sub-ordinate who may happen to be present at the time of accident or who must first arrives at the site of accident shall make out a quick survey of the circumstances connected with the accident and also make out general and suitable note with particulars of information to the Control / Station Master and for other necessary action later.

### 6.1. Officer in Charge at Control

ADRM	To remain in control in case of accident involving passenger train or road users.
Sr. DOM	Will ensure that an Operating Officer remains in control in case of accident or any other disaster. In case of accident involving passenger train or road users Sr. DOM to be present in control.
Sr. DCM	Will ensure one officer in control / Central enquiry in case of accident involving passenger train or road users.
CMS	Will ensure one doctor in control in case of accident involving passenger train or road users
Sr. DSC	Will ensure one officer in control in case of accident involving passenger train or road users.
Sr. DME	Will ensure one officer in control
Sr. DEN / Co.	Will ensure one officer in control
Sr. DEE / TRD.	Will ensure one officer in TPC
Sr. DEE/ G	Will ensure one officer in control
Sr. DSTE/ Co/	Will ensure one officer in control

### 6.2 Accident Log Book

Sr. DOM will ensure that accident log Book is maintained properly. Each 7 every event is recorded correctly and timely.

DRM	With respective branch Officers	In case of accident involving passengers/ road users
CMS	With his team of doctors	In case of accident involving passengers/ road users
Sr. DCM	With team of supervisors	In case of accident involving passengers/ road users
Sr. DSO	With team of safety counselors	In case of accident involving passengers/ road users, serious accident of Goods train
Sectional Sr. DEN/ DEN	With concerned PWIs	In case of accident involving passengers/ road users, serious accident of Goods train
Sr. DME	With concerned Supervisors	In case of accident involving passengers/ road users, serious accident of Goods train
Sr. DSTE	With concerned Supervisors	In case of accident involving passengers/ road users, serious accident of Goods train
Sr. DEE/ TRD	With Concerned supervisors	In case of accident involving passengers/ road users, serious accident of Goods train in electrified territory

Sr. DSC	With concerned Supervisors	In case of accident involving passengers/ road users,
Sr. DEE/ G	With Concerned supervisors	In case of accident involving passengers/ road users, serious accident of Goods train .

### 6.3 Relief Operation :

There is no need for seeking the clearance from state police for launching rescue operation for saving as many human life as possible which inter-alia may involve handing / shifting of rolling stock . The high level committee on disaster management over Indian Railway- April-2013 Para-15.

**The relief operations will be supervised by :**

- a) **Officer in charge at site** :- Senior most officer at the site of accident shall be the site manager.
- b) **Rescue Operation** :- Primarily Medical & Mechanical Department will organize & all other Railway men will assist.
- c) **Care of passengers** : - medical , Commercial & RPF will take necessary care of passengers, their luggage & further dispersal / transportation.
- d) **Casualties / Injures** :- Will be taken care by Railway –men Co- passenger according to the situation & will be supervised by site manager.
- e) **Communication** : Sr. DSTE will ensure communication through DOT-STD / ISD & Railway phone.
- f) **Crowd control law & order** :- Sr. DSC will ensure that clues are preserved & no tampered. He will ensure security of passengers & their luggage's. he will also ensure law & order in that area.
- g) **Media Management** :- Site Manager shall be the chief spokesman at site & can be assisted by the concerned Branch officers. PR/ Commercial department will look after media needs at site.
- h) **State Police Clearance** : State police clearance required for restoration will be done by Sr. DSC & his men.
- i) **Restoration operation** :- Concerned departments:
  1. Rolling stock – Mechanical
  2. Track-Engineering
  3. OHE- Electrical traction
  4. Signal – Signal & Telecommunication
- j) **Maintenance / up-gradation of ARME/MFD/ Engg ART/ Crane & related equipment** : Concerned departments specially Medical, Mechanical, engineering , Signal & Telecommunication, Electrical traction & etc.

## **HAZARD SPECIFIC PRECAUTIONS :**

### **A. CYCLONE,HEAVY STORM/RAIN PRECAUTIONS**

A large coastal area of Bengal and Orissa states in Midnapore, Dantan, Jaleswar, Balasore, Kanthi , Digha, Haldia belt was ravaged heavily by un-forecasted tornado.

In the eventuality of cyclonic weather, enunciated in SR 2.11.2004 & 05 and provisions made in Operation Manual Para 4.43 should be followed to save not only the human life but also railway property.

The stipulations made vide SR 2.11.04, 2.11.05 & Operating Manual Para 24.02 are cited below.

#### **10.1 Action to be taken by Control Officer.**

On receipt of weather warning message from the meteorological center and / or there is reason to believe that cyclone,heavy storm beake out, the message must immediately be conveyed on telephone by the Chief Controller/Deputy Chief Controller to the concerned Station Masters of the stations falling within the vicinity of suspected cyclone hit areas, that apart, the message should also be conveyed to Engineering, Traction Departments and concerned.

#### **10.2 Action by SM/ASM**

- 1) On receipt of the weather warning messages the SM/ASM should immediately convey it to the sectional PWI/AEN if posted at the station or to the station concerned.
- 2) The SM/ASM on duty in consultation with the driver and the guard of the train will not allow to leave the station and will also stop granting line clear for train from the adjacent station until ffrom abates and is considered safe for movement of trains.
- 3) Should a train be caught on the run in a cyclone the train driver will stop his train avoiding stoppage at curves, high embankment, bridges or bridge approaches.
- 4) The doors/Windows should be kept open of passenger coaches for free passage of wind.

#### **10.3 Precautions in the event of anemometer indicating wind velocity higher than the danger level.**

- i) Anemometers generally are installed at Station adjacent to the l;ong bridgesaat KIG station.
- ii) In the event of wind velocity showing critical limit of 39 knots (72 Kmph), Station Master shall ;not allow nor grant line clear for a train to the adjacent station till such time the wind velocity comes down.

The above instructions should be given wide circulation particularly amongst train passing and running staff to observe the precautionary measures stated above to save life and property.

## **B. PREVENTION OF FIRE :**

### **11.1 Main causes of fire**

- i) Carrying stoves, sigris, gas cylinders, kerosene oil, petrol, fireworks etc. In passenger's compartment.
- ii) Making fire/using fire near paper, wood, petrol or such inflammable articles.
- III) Lighted match sticks, cigarette ends carelessly thrown.
- iv) Short circuits in electrical wirings.
- v) Using naked light during shunting of inflammable loads, sealing of inflammable wagons.
- vi) Use of open fire, smoking near gas/petrol tank.
- vii) Non-removal of garbage from pantry car/ coaches.

Everyone should take all possible precautions to keep away from doing the above mistakes so that possibility of break out of fire can be minimized.

### **11.2 FIRE - DO'S & DON'Ts**

#### **A) DON'Ts :-**

- I) Smoking or lighting a flame where it is prohibited.
- ii) Throwing of oil soaked jute/cloth carelessly,
- iii) Throwing of burning match stick, bidi/ cigarettes carelessly,
- iv) Do not overload electric circuits in a coach.
- v) Do not allow running a hot axle wagon/coach.
- vi) Do not keep explosive materials along with combustible materials.
- vii) Carrying of gas stoves, kerosene oil, gas cylinders, kerosene jars, petrol or other inflammable articles in passenger carrying trains, should be restricted :

#### **DO's :**

- I) Be speedy but do not get nervous.
- II) Locate the fire extinguishing substances viz water bucket with water/sand, fire extinguishers etc.
- III) Raise alarm.
- IV) Inform all concerned to assist in extinguishing the fire.
- V) Segregate/remove all valuable properties.
- VI) Keep fire extinguisher/water buckets in readiness.
- VII) Arrange to isolate the source of fire if possible.
- VIII) Ascertain the type of fire viz – dry, oil, gaseous, electric and use the right type of extinguishers.
- IX) In case of the fire from electricity, switch “OFF” the source.

- X) Do not stand against the wind.

### **C) IMPORTANT**

I) Driver, guard passing a section if noticed fire of serious nature in a village endanger to life may stop his train out of course at the next station and shall inform station master about the fact with KM/Location.

ii) In case of total interruption of communication or as the case may be a train can be stopped out of course to communicate information asking assistance.

lii) Driver, guard passing through or entering a station if notice fire, should not stop out of course for stopping trains where fire may cause damage to train/passenger/goods, shall control their train suitable so that fire cannot harm vehicle/wagon and shall take protection so required as per G.R. 6.03.

iv) But if they notice fire on approaching/passing train on adjacent line shall switch on flasher light, whistle continuously and exhibit red hand signal till the affected train passing. They shall stop their train immediately to the spot where field telephone shocket is provided or to the station whichever comes first to communicate first fire information to control.

v) When the fire is of serious nature, nearby municipal, private or railway fire brigade may be called without delay.

vi) The occurrence of a fire shall be informed to the nearest station by most expeditious means and the station master on receipt of such information shall relay control. IOW, Divisional Security Officer and other agencies.

vii) Inform the station/ shed where information can be given to trained staff and firefighting equipment has been provided.

### **11.3 FIRE \_ WHAT TO DO WHEN.**

a) In the event of a vehicle on a train being on fire.

i) The train shall be stopped.

ii) The burning vehicle to be isolated, a distance of not less than 45 meters being left between it and the other vehicles of the train.

iii) The train shall be protected in accordance with GR6.03, if not protected by fixed signals.

iv) Every effort shall be made to extinguish the fire and to save the wagon labels, seals and the contents of the vehicle.

v) Earth or sand, if available shall also be used.

vi) In case of fire is discovered when the train is near a tank or a watering station, the guard and driver shall use discretion to proceed there; but no such attempt shall be made until the portion of the train in near of burning vehicle has been detached.

b) In event of fire on an Electric Engine/EMU

- i) The driver shall immediately switch off the circuit breaker and lower the pantograph. The train shall then be brought to a stand at once.
- ii) After disconnection the electric supply to the affected circuits, the driver shall take necessary action to put out the fire.
- iii) If fire cannot be extinguished by the above means the driver shall advise the traction power controller through the emergency telephone to arrange for the affected section of the over-head equipment to be made dead.
- iv) The guard and any other staff available shall render all possible assistance to the driver in putting out the fire.
- v) Fire extinguishers of an approved type for use on electrical fire shall be provided on each electrical engine/train and the driver shall make himself familiar with the location and use of these extinguishers. During the periodical inspection of a locomotive the extinguisher shall be examined by the locomotive inspecting staff.

#### **SR 6.10.04**

- i) Ordinary fire extinguishers or water from a hose pipe shall on no account be used to extinguish fire on live wire or electrical equipment. If the services of the fire brigade are required, the brigade shall not be allowed to commence operation until all electrical equipments in the vicinity of the fire have been made dead.
- ii) Fire extinguishers which have been used shall be replaced or recharged with least delay.

#### **SR 6.10.05.**

- c) In the event of a fire on a DMU stock.
  - i) The motorman shall immediately switch off the circuit breaker and shut down the engine. The train shall be brought to stop at once.
  - ii) The guard shall give all possible assistance to the driver in putting out the fire.
- iii) The fire extinguishers of approved type shall be provided on each motor coach of DMU. When a DMU rake is turned out from the car shed. The CWS in charge of the shed shall inspect the fire extinguishers and ensure that these are in good working condition.
  - d) When a person's clothing catches fire.
    - i) Approach him holding with the nearest available wrap in front of you.
    - ii) Wrap it round him.
    - iii) Lay him roll on the floor, smothering the flames .
- iv) On no account he rush into the open air.
- v) Call for assistance.
  - e) Fire caused by petrol or any other inflammable liquids, acids or gases.
    - i) Segregate the affected wagon, coach or area involved.
    - ii) On opening a wagon do not enter it immediately. You would, thus avoid fumes which may be dangerous.
    - iii) Use D.C.P.T. fire extinguishers and sand and not water or soda acid type fire extinguishers.
    - iv) Do not bring naked lights near the site of fire.



- vi) Inform the nearest railway or civil fire stations intimating that the fire has been caused by petrol or any other inflammable liquids or gasses or acids.
- vii) F) General Rules for the Treatment for the Burns and Scalds.
  - i) Avoid handling the affected areas more than is necessary. See that your hands are as clean as possible by washing them.
  - ii) Do not apply lotions of any kind.
  - iii) Do not remove burned clothing & do not break blisters.
  - iv) Cover the area (including burnt clothing) with a prepared dry Sterile Dressing if possible, otherwise clean lint, freshly laundered linen or some similar material may be used.
  - v) Bandage firmly except when blisters are present or suspected, in which case bandage lightly.
  - vi) Immobilize the affected area by suitable means.
  - vii) Treat for shock.

g) In major case, remove the patient to hospital as quickly as possible. The casualty will probably require an anesthetic, so that ordinarily nothing should be given by the mouth. If medical aid is delayed for at least four hours, give drinks of water to which salt has been added in the proportion of half teaspoon to two numbers, with the addition of approximately half a teaspoon of bicarbonate of soda ( if available)

h) In a minor case, give large quantities of warm fluids, preferable weak tea sweetened with sugar.

• **MOBILE PHONE NOS OF KGP DIVN., SER HQRS, ADJACENT DIVNS / RAILWAYS :**

**KGP DIVISION**

OFFICER	MOBILE PHONE NO
DRM	9002081000
ADRM	9002081001
SR. DSO	9002081904
SR. DOM	9002081900
SR. DCM	9002081950
SR. DME	9002081400
SR. DEN/CO	9002081200
DEN/HQ	9002081205
SR. DEM/HQ	9002081201

**MOBILE PHONE NOS OF SOUTH EASTERN RAILWAY HEADQUARTERS**

OFFICER	MOBILE PHONE NO
GM	9002080000
AGM	9002080001
SECY/GM	9002080002
DGM(G)	9002080004
PROTOCOL	9002080015
CPRO	9002080080
CRS	9002080850
CSO	9002080660

# EASTERN RAILWAYS, SEALDAH DIVISION

OFFICER	MOBILE PHONE NO
DRM	9002021000
ADRM	9002021001
SR. DSO	9002021990
SR. DOM	9002021900

## LIST OF NON-RAILWAY MEDICAL FACILITIES AVAILABLE IN KHARAGPUR DIVISION

	Name & address of the nearby non-rly Hospital	Distance from the nearest rly. Station		Nos. of doctors	Name of doctors (I/C)	Contact no.	Facilities available						Specialties available			
		Name of station	KM				No of beds	pa th ology	x-ray	EC G	O T	A m b ulance	S ur ge on	O r th o pe di c	P h ys i c ian	a n a e s th e s i a
Section - HWH	Nandaigajan PHC	MC A	3	3	Dr. Palas Mondal	9830047893	10	Y	X	X	X	X	X	X	X	X
	Paikpara PHC	KIG	3	5	Dr. Palash Ghorai	03228-256238	30	Y	X	X	X	Y	X	X	X	X
	Bagnan PHC	BN Z	2		Dr. Pyali Das		50	Y	Y	Y	X	Y	Y	X	Y	X
	Uluberia SDH	UL B	.15		Dr. S. Jana	033-26610341	210	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Uluberia ESIH	UL B	1.5		Dr. H. Kumar	033-26610266	140	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Sanjibani Hospital	FLR	1	40	GM-Mr. Basudeb Hui	9831051262	300	Y	Y	Y	Y	Y	Y	Y	Y	Y
	West Bank	MG R SRC AD L	245	55	Dr. S. Saha	033-26448888	150	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Peoples Nursing Home	SRC	5	40		033-26409141	30	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Bagchi Nursing Home	SRC	3	20		033-26270709 033-26271051	20	Y	Y	Y	Y	Y	Y	Y	Y	Y
Section- SHM	South Howrah State Govt. Hosp	SH M	1.5	12		033-26681060	30	Y	Y	Y	Y	Y	Y	X	Y	X
	Indus Nursing Home	SH M	2	25		26445323	50	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Shree Jain Hosp. & Research	SH M	2			033-26381708	160	Y	Y	Y	Y	Y	Y	Y	Y	Y

**TELEPHONE NOS OF ALL STATIONS IN KHARAGPUR DIVISION**  
**HWH-SHM-KGP**

SL.NO.	STATION CODE	RAILWAY TELEPHONE	BSNL TELEPHONE	MOBILE NO
1	HOWRAH	45214	033-26602217	9002086314
2	TIKIAPARA	45360	033-26510821	9002086345
3	SANTRAGACHI	45565	033-26582504	9002086326
4	SHALIMAR	45863	033-26681121	9002086309
5	MOURIGRAM	45737	033-26699191	9002086322
6	ANDUL	45738	033-26690548	9002086324
7	SNAKRAIL	45739	033-26790010	9002086327
8	ABADA	45740	033-27119199	9002086328
9	NALPUR	45741	033-26917100	9002086321
10	BAURIA	45742	033-26619855	9002086331
11	CHENGAIL	45743	033-26428140	9002086334
12	PHULESWAR	45744	033-26612856	9002086336
13	ULUBERIA	45745	033-26610326	9002086338
14	BIRSHIBPUR	64216	033-26610831	9002086346
15	BAGNAN	64214	03214-266247	9002086341
16	DEULTI	64213	03214-275434	9002086343
17	KOLAGHAT	64260	03228-256243	9002086340
18	MECHEDA	64212	03228-250265	9002086236
19	BHOGPUR	64409	03228-251467	9002086238
20	PANSKURA	64302	03228-252224	9002086240
21	HAUR	64407	03228-242330	9002086242
22	BALICHAK	62995	03222-244252	9002086244
23	SHYAMCHAK	62932	03222-239299	9002086246
24	MADPUR	62797	03222-247125	9002086248
25	JAKPUR	62740	03222-231509	9002086250
26	KHARAGPUR	62666	03222-255735 03222-275751	9002086251

**LIST OF MILITARY HEADQUARTERS**

Unit	Name & Address	Phone No.
Army	Station HQ Kolkata	033-22430326
Air Force	East Command Fort William, Kolkata	03364-2223900 03365-2561461
Air Force	Chief Operations Officer/ Barrackpur	033-25921251

**LIST OF PARAMILITARY ESTABLISHMENTS**

Unit	Name & Address	Phone No.
CISF UNIT	Libiyan tee ware house	033-24391360
	CPT/Kolkata, Control Room	24397359
CISF UNIT	CISF unit, CPT, Kol, New Traffic	033-24430685
	Nez / Kasba Control Room	
BSF	DIG Office, South 2B, Sinha Road	033-25778871
CISF/ HLZ	CISF unit Kol Port Trust / HLZ	03224-25229/252457
	CO/CISF/HLZ Control Room	03224-26335 (R) / 252328

### ESTABLISHMENT HAVING EARTH MOVING EQUIPMENT

Sec.	Station	Equipment	Source	Contact person mobile	Phone (O)
KGP-HWH	HWH	Bulldozer	Bengal Earthmoving equipment, Liluah	-	033-26558011
	HWH	Heavy Load cranes 10 ton to 75 ton	M/s Bharat Crane Service, Kolkata	98-3005-2560	033-25578223
	HWH	75 ton road crane fork lifter	M/s Mittal Heavy Lifters, HWH-201	-	033-26557591

### ESTABLISHMENT HAVING TENT

Sec.	Station	Equipment	Source	Contact person mobile	Phone (O)
KGP-HWH	HWH	Any types of tent and decoration equipment	Automatic tent, Kolkata	-	033-22421678

### List of persons to be contacted in case of exposition in LPG – Bottling plant of Uluberia

#### Bomb Disposal Squad (BDDS/ BDS)

Name	Address
Sri P. K. Ramnathan Regional LPG Manager (East)	BPCL 31, KIT Schime Road, Prince Gulam Mohammad Sah Road, Golf Green, Kol - 95
Sri Samiran Mazumder, Manager Operation, HHSE, LPG (East)	Same as above
Sri Sudipto Mukherjee, Territory Manager, ULB, LPG Plant	BPCL / LPG bottling plant (Post) Birshibpur (East) Howrah, PH No- 03326610600/15 Mob- 9836955442
Sri Panna Lal, TC	BPCL / LPG bottling plant (Post) Birshibpur (East) Howrah, PH No- 03324287370 Mob- 8981786432

#### Bomb Disposal Squad (BDDS / BDS)

Bomb Disposal – Squad / HWH under SDPO / ULU: Ph. No- 033-22-145087 & 28-630592

Bomb Disposal – Squad, O/C/ BDS / KGP : Sri Sabyasachi Mukherjee: Ph 7797600805

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### Name of S.K. Oil Agent of Howrah District

Sl. No.	NAME OF THE S.K OIL AGENT	Sl. No.	NAME OF THE S.K OIL AGENT
1	M/S RAJATAM AGENCY	16	M/S P.P DUTTA (DOMJUR)
2	M/S R.L AGARWAL	17	M/S KALIMATA FUBL BNTRE
3	M/S H.C.D.K. GHOSH	18	M/S N.C CHOWDHURY & COMPANY
4	M/S SANDHUKHAN & CO	19	M/SJAUNPUR SERVICE STATION
5	M/S RAM NARAYAN B. BEHARI	20	M/S MAHALAXMI TRADING CO.
6	M/S RADHA KRISHNA B. KUMAR	21	M/S R.K CHOWDHURY & BROTHERS
7	M/S BHAGAT BROTHERS	22	M/S ANNAPURNA OIL SUP AGENCY
8	M/S JOYDEB ARU	23	M/S P.L SADHUKHAN
9	M/S PROGRASIVE K.OIL AGENCY	24	M/S MANNA OIL COMPANY
10	M/S BHTTACHARJEE & SONS	25	M/S U.N PUR L.S.P.CO-OPERATRIVE
11	M/S SHANKAR AGENCY	26	M/S AMTA OIL SUPPLY AGENCY (PERRO)
12	M/S MUL CHAND HARI CHAND	27	M/S AMTA OIL, SUPPLY AGENCY (AMTA)
13	M/S SUMITRA TRADERS	28	M/S SAIKHS SONS & COMPANY
14	M/S ADYAMA AGENCY	29	M/S P.K GANGULY
15	M/S P.P DUTTA (BORGACHIA)	30	M/S SAMANTA BROTHERS

### Name of Distributors , FOOD & SUPPLIES, HOWRAH

Sl .No.	Name of Distributer	Address
1	Chandimata Stores	Amta
2	M.M Deyashi & B.C Sadhukhan	Amta
3	Sanat Kumar Garai	Bagnan
4	Sudipta Mondal	Bagnan
5	Pintu Polley	Shyampur
6	Sukumar Mondal	Shyampur
7	Sanatan Pradhan	Shyampur
8	B.K Ghosh	Uluberia
9	Anath Bandhu Mandal	Kulgachia
10	L.N Stores	U.N Pur
11	Laxmi Narayan Chowdhuri	Domjur
12	Sk. Md. Yasin	Bankra
13	Sk. Abdus Salam	J.B Pur
14	Sital Prasad Saha	Bikihakola
15	S.P. Saha	Jujersaha
16	A.F .S. Agency	S. Sankrail
17	A.F.S. Agency	Sarenga
18	Ajay Nath Yadav	Andul

## P.S. wise - List of NGOs

Amta PS			
Sl No.	Name fo N.G.O	Secretary / Contract Person	Contact No
1	Swameswar Rural society	Santimay Dey	9733827125
2	Aragati Ganasanghatan	Tapan Mondal	9775193067
3	Kolikata Bidhan Manab Bikash society	Archita Basu	8609286059
Bagnan PS			
1	Bagnan Ananda Niketan ( NGO)	Srikanta Sarkar	9732556998
2	Bangalpur Mahila Vikas Kendra ( NGO)		
3	Haturia JanaKalyan Samiti (NGO)	Himanshu Roy	9830561752
4	Arrohon (NGO)		9331825686
5	Howrah Vivekanauda Sikshakendra Dhunda ( NGO) Reg no-S/2L/27126	Tanmoy Patra	xxxxxx
6	Itinda Community Development Socity	Ashis Ghosh	9732852016
Bauria PS			
1	Nari O Sishu Kalyan Samity	Rahima Begum	9830646876
2	Sweet Saviour Ministry	D. Padma Murty	9903099172
3	North Pointe Community India	D. Sudarshan Murty	9831222040
4	Sebalaya Health and Research Centre	Dr Saiful Sk	9331021892/ 9432577744
Domjur PS			
1	Marium Kinara Mentul Home	Bharati Ghoswami	9230551749
J.B.Pur PS			
1	Naskarpur Siddheswar Paribrajak Welfare Society, PS- JB Pur, Howrah,	-	-
2	Gobindapur Mother Rural & Urban Support Organization, PS- J.B Pur, Howrah	Chanchal Koley	9153812771
3	Vivekananda Village, Welfare Society, Naskarpur Gurerbazar	Gopal Ghosh	9775197398
Joypur PS			
1	Chironabin Observation Home	-	-
2	Amoragori Old age home	-	-
3	Vivekananda Disary Palliunnayan Samity	Rupchand Roy	9641573388
4	Mahakalpur Nakubar Janakalyan Samity	Nepal Porey	xxxxxx
Panchla PS			
1	Jujersa Gramin Paribar Kalyan Society, R.No - S/72909	Srishtidhar Manna	9830998763
2	P N Manna Institution Alumni Association, Help the student of P.N.Manna Institution through books and essential needs. R.No - S/1L/59899	Bholanath Koley	(03214) 251609
3	Mahila Unnyan Shibir		9051516167
4	Malipukur Samaj Unnayan Samity		9836990242
5	Prime Computer Education		(03214) 251149

<b>Sankrail P.S.</b>			
<b>Sl No</b>	<b>Name fo N.G.O</b>	<b>Secretary / Contract Person</b>	<b>Contact No</b>
1	Jhorehat Boys Club N.G.O, PS-Sankrail , Howrah	General Secretary: Dibbendu Banerjee	9830257331
2	Dhulagori Mahamaya Welfare Society	Swapan Naskar	9831080637
3	Sulati Vivekananda Gram Unnayan Samity	Secretary Ajit Jetti	9830654169
4	Annanay N.G.O Foundation	Subrata Ray Barman	9874492452
5	Ananda Dhara Home	Sadre Alam	9674744557
<b>Shyampur PS</b>			
1	Radhapur Bengal Krishak Sangha	Nemai Mondal	7872854743
2	Jallabaj Sitala Nabin Sangha,	Shyam Sundar Fadikar	9775142717
3	Bibeakananda Upa Chikitsa Saba Kandra	Kamalendu Santra	9735190753
4	Bratachari	Sujan Bera,	9775629577
5	ICOD	Mamata Ghosh	9830445900
<b>U.N.Pur PS</b>			
1	Debipur Rural Development Society	Pranab Sasman	9733971071
2	Sonatola Village Welfare Society	Haradhan Das	9775074764
3	Pearapur Sarvik Gram Seva Samity	Monaj Porel	9732986143
4	Agradut Pally Unnayan Samity	Umasankar Mukherjee	9733863346
5	Itarai Asha Deep	Laxmikanta Chakarborty	8001006171
6	Sonatola Aman Foundation	Sk. Saheb	9593095761
7	Dakshin Bidhichandrapur Sevak Sangha	Sk.Rahim	9775196118
8	Animal & Bird Welfare Society	Badal Jana	9732749127
9	Bidhichandrapur Chetna	Prabhat Chakraborty	9733531458
10	Akna Saradama Samaj Seva Samity	Ashis Chakraborty	9830585659
11	Chakbahampur Village Welfare Society	Kashinath Samanta	9434561557
12	Dalapatichak Multi Welfare Society	Abhijit Kanrar	9732579090
13	Asanda Jana kalyan Samity	Pravas Ch. Janan	9143036388
14	Udaynarayanpur Block Gram Unnayan Parisad	P. Konch	8001321882
15	Garh Bhabanipur Little Heart	Nimai Adak	9732720932
16	Ambagan Karmee Sangha	Urmila Santra	8768753938
17	Gaja Naba Jagaran Samitty	Abhijit Adak	9733531276
18	Dakshin Chandchak Samaj Kalyan Samity	Rathindra Manna	95644871006
<b>Uluberia PS</b>			
1	Kamina Social Welfare Society	Mantu Sk Secretary)	9830660705
2	Howrah Anatardaya Mahila Society	Kalyani Palui (Secretary)	9836018434
3	Rajapur Sebaniketan Society	Lipta Mondal	9804659352
4	Kalayanbrata Sangha	Swami Anahata Nanda	9881155349
5	Rajapur Sri Ramkrishna Ashram	Barna Pramanick	9143101680 9432988373
6	Tapoban Social Welfare Socity	Shyamsundar Adhikary	9836598802
7	Tapoban Internal Socity	Shyamsundar Adhikary	9836598802
8	Netaji Sangha	Ajit Parui (Secretary)	9836988364
9	Chameli Memorial Rural Welfare Socity	Rekharani Basak	9433034576
10	Barberia Bratachari Dham	Ranajit Pal	9874979773
11	Khalisani Rural Welfare Socity	Samar Manna	9836837456

- List of Oil Terminals or Bottling Plant.**

Sl. No.	Name of the Block	Name of the Company	Address	Contact No.(s) of Key Person	Remarks
1.	Sankrail	<b>Mourigram Terminal</b>	Vill. - Panchpara, P.O. - Radhadasi, Dist. - Howrah, West Bengal, Pin - 711317	091781 54136	<b>Storage capacity:</b> 150000 KL <b>Products handled:</b> MS, HSD, SKO,ATF,MTO <b>Activities:</b> P/L receipt, TT loading
2.	Uluberia-I	LPG Bottling Plant - Uluberia, BHARAT PETROLEUM	NH 6, Birshibpur, Uluberia, Kolkata, West Bengal 711316	033 2661 0600 / 26610615	

- NAME OF PETROL PUMPS UNDER HOWRAH RUARL DISTRICT**

SL NO	PETROL PUMP	PROPRIETOR / MANAGER	CONTACT NO
<b>AMTA</b>			
1	Sudip Service Centre at Chandrapur		
2	Shibam Service Centre at Babla Tala		
3	Paltu Service Station at Kalatala		
<b>BAGNAN</b>			
4	Swapnadesh Service Station, On Nh-6 at Nabasan	Pro:- Ramen Das,	03214-222-888, 9830580032
5	Mallick Service Station at NH-6 Khadinan,	Pro- A Mallick –	9434613822, 03214-266-277
6	Bagnan Service Station on NH-6 Chandrapur,	Pro- Taradas Ghosh-	9477486455, 9733571206
7	Kalyan Pur Papai Service Station on Mankur Road , -	Pro- Tanmoy Banerjee	9735507091, 03214-269-091
8	5) Hare Krishna Service Station at Bagnan Shyampur Road, -	Pro- Suresh Chand	8001188042, 033-2223-3801
<b>DOMJUR</b>			
9	Domjur Service Station at Uttar Jhapardaha	Shyamal Chowdhury	2670-0602
10	ii) Anirban Service Station	Tarun Kr. Singh	2670-1721
11	iii) Arun Service Station at New Korola, On – NH-6 7	Pro- Arindam Dey	983007843
12	iv) Super Filling at New Korola On NH – 6	Prop- Arindam Dey, -	9143308841
SL NO	PETROL PUMP	PROPRIETOR / MANAGER	CONTACT NO



13	v) Kartick Service Station at New Korola NH-6 Quazi	Nasibul Hasan	2669 0537
14	vi) Saraf Brothers Service Station On –NH-6	Prop- Rajesh kr. Prosad –	2669-1418
15	vii) Ankur Servioce Station at Ankurhati on NH-6	Prop- Anupama –	2669-0059
16	viii) Chowdhury and Company at ankurhati on NH-6	Pro- S.N. Verma	2669-0673
17	ix) Nibra Service Station – on Nibra NH-6		2269-9145
18	x) Atulananda Service Station – at Salap on NH-6 Prop-	Subhash Nandi –	9903795587
19	xi) Domjur Service Station Near of Domjur B.D.O office	Pro- Amit Dutta –	2670-0707
20	Halder Service Station at Dakshin Jhapardaha	Pro- Sufal Halder	9830843000
<b>Jagatballavpur</b>			
21	Bargachia Auto Service at Bargachia –		953214255-361
22	Pantihal Service Station at Pantihal –		953214201-305
23	Chanditala Filling Station at Bokpota		953212227-922
24	Pradip Automobile at Munshirhat		953214232-946
<b>JOYPUR</b>			
25	I) Subhalaxmi Service Station at Jhikhira –		03214-238-104
26	ii) Dhaipur Petrol Pump at Dhaipur –		03214-229-111
27	iii) Ramkrioshna Service Station – Dhaipur –		9433142999
28	iv) Laxmi Service Station atr Rampur Khal		9735538431
<b>PANCHLA</b>			
29	i) Jugersha Petrol Pump –	Arun Kr. Hazra-	9830782803
30	ii) Gabberia Petrol Pump –	Sahabuddin Molla –	9830173216
31	iii) Joynagar Petrol Pump --	Rajkumar Chowdhury	943367168
32	iv) Ranjan Service Station –	Sri Sunil Ranjan Paul and Sri Vivekananda Paul @ Pappu –	7890053325
33	v) Bombay Service Station	Sri Amrit Patel –	2661-7878
34	vi) Singh Fillers Petrol Pump –	Fanindra Bhusan Singh –	9831360058
<b>SANKRAIL</b>			
35	Gill Service Station at Jungle Pur	Manager- Rajmangal Singh -	26693340
36	Alampur Service Station =- Alampur On NH – 6,	Manager-Ranjit Dewan	26690225

SL NO	PETROL PUMP	PROPRIETOR / MANAGER	CONTACT NO
37	S.B. Service Station at Alampur NH- 6,	Manager- Sandip Dey	9830077767, 2669-9107
38	Raiberily Service Station at Dhulagori NH-6 Manager	Biswanath Das	9830230683
39	Sujata Service Station at Dhulagori NH-6 Manager	Ashok Ghosh	2661-6875
40	vii) Bhamra Auto Centre at Dhulagori	Manager- Gurnam Singh	2661-6908
41	viii) High Way Service Station at Kandua,	Ashish Kumar Ghosh –	2661-6895
<b>SHYAMPUR</b>			
41	Sri Radha Filling Station at Gujerpur-		03214-263-133
42	Ma Sitala Filling Station at Shyampur –		03214-264-012
43	Guria Transport Agency at Shyampur Ajyodhya-		03214-261-351
44	Taj Service Station – Belari 58 Gate –		9836945707
45	Kishan Service Station – Baganda –		9038191091
46	Bharat Petrol Pump – Shyampur -		9734412206
<b>UDAYNARAYANPUR</b>			
47	Khila Service Station at khila	Prop- Ranjan Chakraborty –	98310061234 8670377320
48	Rajapur Service Station at Rajapur, U.N.Pur	Manager Prosenjit Hazra	9474094403
49	U.N.Pur Thana Private Co-Operative Agril Marketing Society Ltd.	Chairman – Keshab Bera	97326179921
<b>ULUBERIA</b>			
50	Ananda Filing Station at Raghudevpur,	Prop- Rabindra kr. Singh	2691-7137
51	Broadway Service Station at Raghudevpur	Prop- Basanta Kr. Show –	2661-9127
52	Rajpath Petrol Pump at Bani Tabla	Prop- Sk. Ghosh –	033 3290 3589, 9833084347
53	Seema Service Station at Khajurti		033-6418 4996
54	Bharat Petroleum at Birshibpur, -		2661-3356
55	Engineering filling station at Birshibpur, -		2644-0724
56	Shibam Service Centre at Kulgachia –		2621-0015
57	Tirupati Srvce Station at Kaijuri –		2261-0236
58	K. Shib Petrol Pump at Panchla Bouria More –		03214-255282

• **List of Heritage Buildings.**

Name of the Block/ Muni./ Corp.	Name of Building	Address	Significance	Year of Construction	Whether prone to inundation (Y/N)	Whether Sufficient Fire Fighting Arrangements is there	Any special measures taken for Disaster Risk Reduction
1	2	3	4	5	6	7	8
Uluberia Municipality	Job Charnok's House	Uluberia, Ward No:25	Heritage Site	N.A.	No	No	No
	Kaman Ghar (A ground)	Shyams under Chak, Ward no. : 08	A site of World War II	N.A.	No	No	No

• **Crowd Management Plan.**

Name of the Block / Muni./Corp.	Large Crowd Events	Location	Estimated Crowd strength as per past year record	Name & Contact of Organizing Body	Resource Deployment by District Administration (Manpower/ Equipment/ vehicle etc.)
1	2	3	4	5	6
Amta-I	Damodar Mela	Rasipur School football Ground	60,000 (Approx)	Aragati Ph No- 03214224111	Manpower ( Civil Defence Force)
	Amta Boi O Sanskriti Mela	Amta Girl School Premises	40,000 (Approx)	Sri Prodip Mitra, Secretary of Mela Committee Ph No - 9434613257	Local Administration
	Pir Babar Mazar Mela	D Harishpur, Panpur ,Amta	70,000 (Approx)	Sk Raihan , Secretary of Mela Committee	Local Administration
Bagnan-I	Sarat Mela	Panitrash High School Ground			Sarat Mela
	Panitrash, Bagnan, Howrah"		35000 Apprx.	Secretary	Panitrash, Bagnan, Howrah"
Jagatballavpur	Fateh Ali Mela	Munshirhat	8000 (Approx.)		Police, Fire fighting arrangements are made.
	Siddheswar Shivaratri Mela	Siddheswari	7000 (Approx.)		
	Mandala Kalipuja	Madala Pantihal	5000 (Approx.)		

Name of the Block / Muni./Corp.	Large Crowd Events	Location	Estimated Crowd strength as per past year record	Name & Contact of Organizing Body	Resource Deployment by District Administration (Manpower/ Equipment/ vehicle etc.)
1	2	3	4	5	6
Shyampur-II	Dawan Saheber Mela	Sitapur Bazar	7000	Sk Hannan Ali	Dawan Saheber Mela
	Neel Utsav	Naskarpur	8000	Tapas Hazra 9091693362	Police Personnel
Udayanarayanpur	Dihibhurshut Barowari Sasan Kali Puja	Vill & P.O- Dihibhurshut,P.S - Udaynaryanpur, Dist-Howrah	40,000	Dihibhurshut Barowari Puja Committee ,Contact No- 7029556561	Police Deployment done by local Police Station.
	Bhai Khan Pire r Mela	Vill & P.O- Singti,P.S- Udaynaryanpur, Dist-Howrah	50,000	Bhai Khan Pir Mela Committee,Contact No- 9734474678	
	Muharram Procession and Mela at Penro Dargatala	Vill & P.O- Penro,P.S- Udaynaryanpur, Dist-Howrah	30,000	Parua Dargatala Committee Contact No- 9733648624	
	Khepteswari Puja and Annakut Mela	Vill- Paliarah,P.O- Gorangachak,P.S -Udaynaryanpur	35,000	Khepteswari Puja Committee- 9735276648	
	Raybaghini Rani Bhabashankari Smriti Mela	Vill-Garh Bhowanipur,P.O - Chitrasenpur,P.S - Udaynaryanpur, Dist-Howrah	30,000	Raybaghini Rani Bhabashankari Smritiraksha Committee, Contact No- 9830665962	Police Deployment done by local Police Station.Uluberi a Fire Station Sends Fire Engine
	Kali Puja Mela at Udaynaryanpur Sarada Charan Institution Ground	Vill & P.O- Udaynaryanpur, P.S- Udaynaryanpur, Dist-Howrah	30,000	Avijan Samiti, Contact No- 9733729548	Police Deployment done by local Police Station.

# Civil Defence, Howrah

Contact No: 033 2641 3393

## FOR SPEED BOAT & QRT PERSONNEL, CONTACT:-

West Bengal Civil Emergency Force (W.B.C.E.F.)

Amtala, 106, Carry Road, Howrah

Official E-mail ID: [wbceflowrah@gmail.com](mailto:wbceflowrah@gmail.com)

Contact No:

24Hrs. Control Room – 033-2688-5211 / 3216

Commandant (Goutam Mukherjee) – 9674625484

For the deployment of Divers, Please contact –

The Addl. Commissioner of Police-III &

Joint C.P. Head Quarter, Lalbazar, Kolkata.

Contact No: 033 2214 5799 / Control Room No:- 033 2214 3230

Mr. Amitabha Chakraborty,

Inspector In-Charge, DMG, Kolkata Polic.

Mobile: 9038648875.

No. of Municipal Corporation – 01 (one) : Howrah Municipal Corporation ( Total = 66 Wards)

No. of Municipality – 01 (one) : Uluberia Municipality ( Total = 32 Wards)

### **No of Blocks – 14 (Fourteen) :**

Sl	Name of Block	Sl	Name of Block	Sl	Name of Block	Sl	Name of Block
01	AMTA -I	02	AMTA -II	03	Udaynarayapur	04	J. B. Pur
05	Domjur	06	Sankrail	07	Bagnan – I	08	Bagnan – II
09	Shyampur - I	10	Shyampur – II	11	Uluberia – I	12	Uluberia – II
13	Panchla	14	Bally Jagacha				

Flood Prone Block: AMTA – I; AMTA – II; UDAYNARAYAN PUR; JAGATBALLAVPUR & DOMJUR

### **List of Active Civil Defence Volunteers in Flood prone Block area wise:**

AMTA – I			AMTA – II		
Sl	Name of Active CD Volunteers		Sl	Name of Active CD Volunteers	
01	Soumitra Roy	9732726934	01	Sk. Lal Mahammad	8348003736
02	Dhrubojyoti Halder	9831859859	02	Bidyut Choudhury	7699386465
03	Molay Bagui	9091259792	03	Pradip Dutta	7699386465
04	Dibyendu Chakraborty	7699187465	04	Babu karapati	8293149337
05	Tanay Nayek	8343987346	05	Sk. Tanjir Ahmad	9153118113
06	Abhijit Manna	9733940880	06	Nayan Mondal	9051577083
07	Subrata Manna	8609034317	07	Sudip Samui	8101511164
08	Rupali Golui	9088804543	08	Runa Mondal	9163918917
09	Molay Kumar Pal	8013185845	09	Dipankar Chatterjee	9800238589
10	Avijit Shee	9051356648	10	Sudhangshu Chakraborty	7699383419

Udaynaraynpur		Jagatballavpur	
Sl	Name of Active CD Volunteers	Sl	Name of Active CD Volunteers
01	Bappa Jana 9874363019	01	Sumon Chakraborty 7797688091
02	Biswajit Halder 9046665860	02	Srimanta Roy 9732554437
03	Samrat Dolui 9836776702	03	Sandan Kr. Prasad 7278063594
04	Amit Paul 8296497332	04	Santu Samanta 9932602884
05	Bivas Manna 7407121112	05	Sovan Jana 9735337355
06	Sourav Karmakar 7890820692	06	Suvojit Kundu 9093908763
07	Tanmay Das 9007221240	07	Jyotirmoy Chatterjee 7686077602
08	Bapan Dhuli 7278794475	08	Sankar Sit 7278315830
09	Aninda Banerjee 8967570557	09	Barun Mondal 9830468222
10	Sudip Das 9830710422	10	Somnath Bar 8981127578
Howrah Municipal Corporation Area			
Sl	Name of Active CD Volunteers	Sl	Name of Active CD Volunteers
01	Arun Dey 9830515598	16	Shyamal kumar Bera 9007775407
02	Ramkrishna Patra 8902693877	17	Papiya Bhattachariya 9830192917
03	Soma Dey 9883294213	18	Rakhi Mondal 8620018722
04	Asis Kumar Sarkar 9903113258	19	Sourav Chatterjee 8584905661
05	Pranab Kumar Das 7278258929	20	Sourav Ballav 9038015581
06	Bipin Kumar shaw 9088822916	21	Kumkum China 9830365044
07	Sk. Nisar Ali 7278460727	22	Payel Das 9748284541
08	Pravash Jana 9163558045	23	Amrita kanrar 9874237576
09	Ajoy Kumar Sonkar 9007413593	24	Supriya Golui 9831983133
10	Om Prakash Shaw 9804188031	25	Subrata Ghanta 8515898973
11	Anupam Nandy 9038145148	26	Subhashis Chakraborty 9884205176
12	Dipankar Bag 9804710303	27	Ajoy Kumar Sinha 8981966045
13	Ashis Kanrar 9674064352	28	Krishna Kumar Das 9339337690
14	Nirmala Das 9331915657	29	Krishna Singh 7059273020
15	Loknath Shaw 9038872815	30	Biswajit Mondal 9874928253

**Total QRT / MDT Trained Civil Defence Volunteers in Howrah District – 100 (Boys & Girls)**

**Total Civil Defence Rescue Vehicle [CDRV] – 2 (Two)**

**1. WB 37C 6762 [CDRV]**

**2. WB 37C 6769 [Mini CDRV]**



## Images of Damages & relief & Rescue work done during previous Floods





## Images of Damages & relief & Rescue work done during previous Floods





## Images of Govt. aided Flood shelters :



**Flood Shelter ,Bhawanipur, UNpur**

**Flood Shelter , Jagarampur, Uluberia-II**



**Flood Shelter, Par-Radhanagar,  
UNpur**

## Images of Govt. aided Relief Godowns :



**Relief Godown At Amta-II  
Dev. Block**

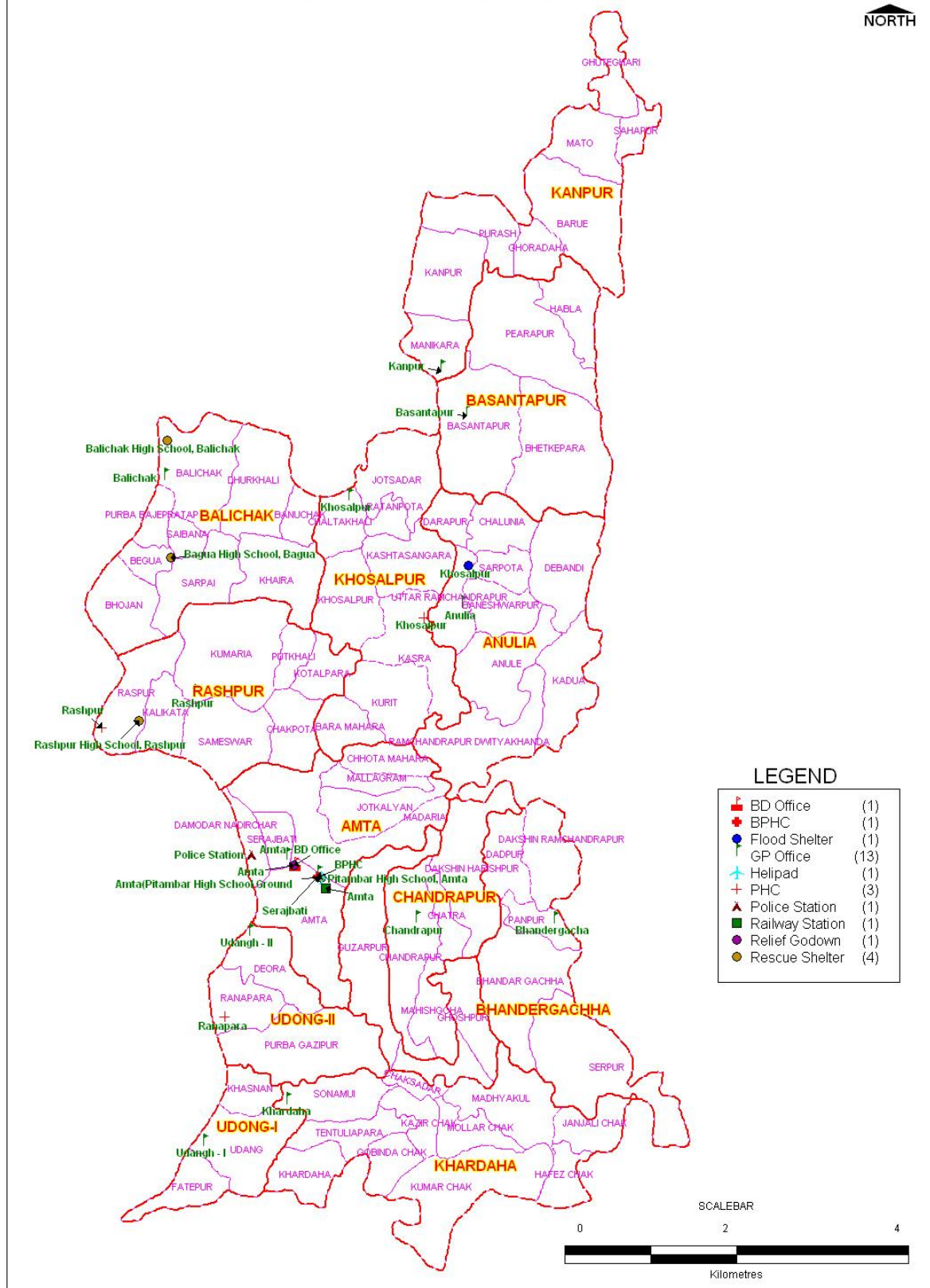


**Relief Godown at Unpur Dev.  
Block**



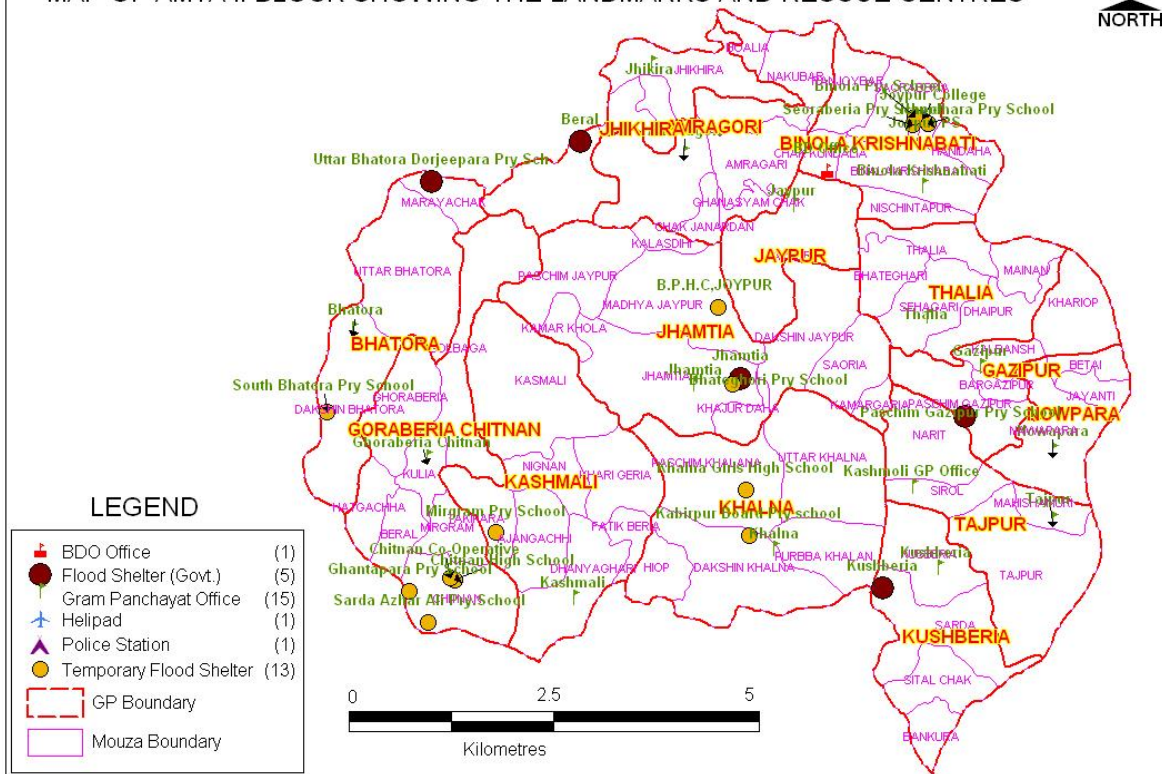
**Relief Godown at Bally-  
Jagacha Dev. Block**

# MAP OF AMTA - I BLOCK SHOWING THE LANDMARKS & RESCUE CENTRES

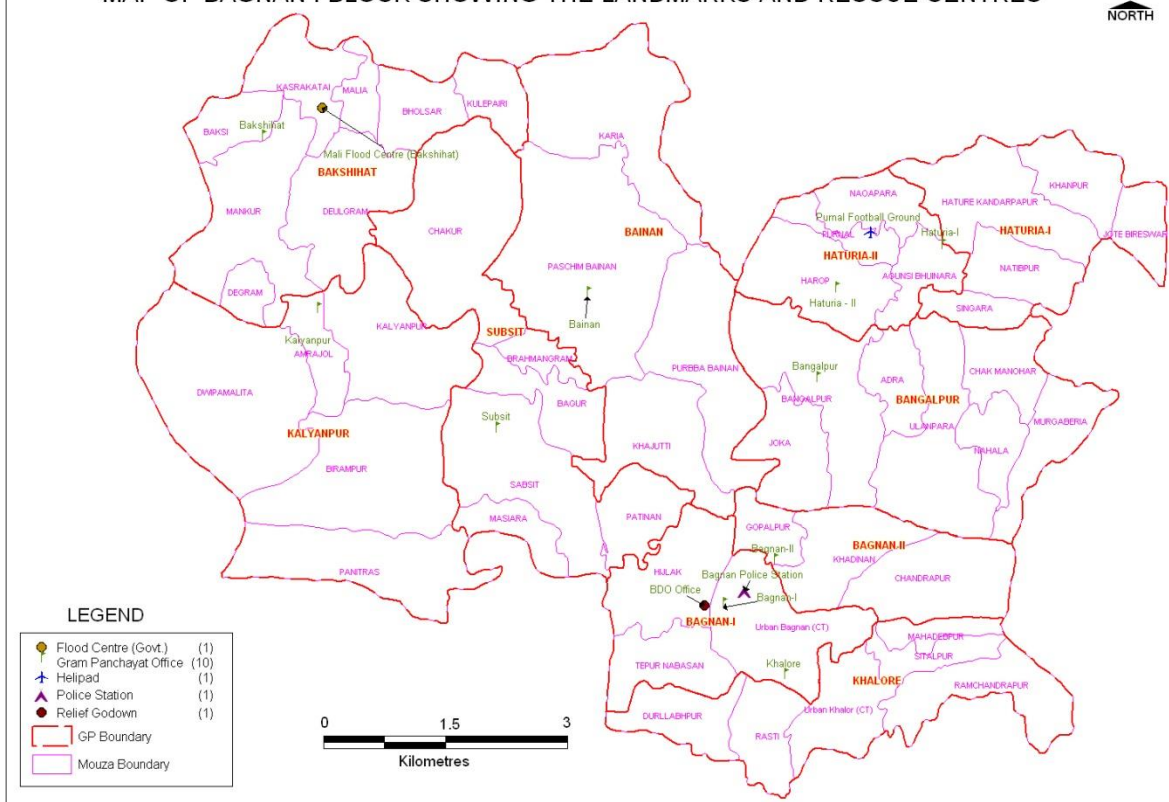


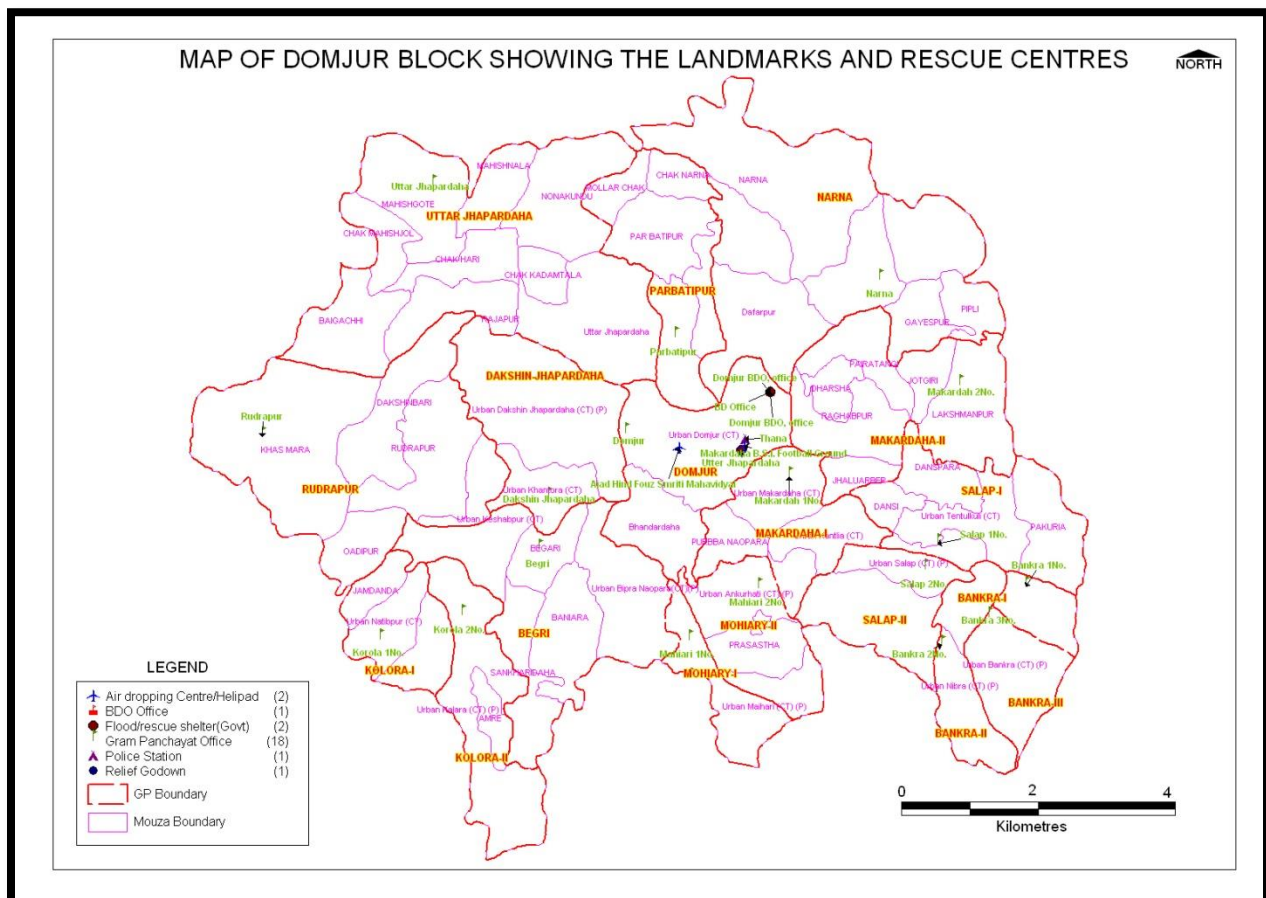
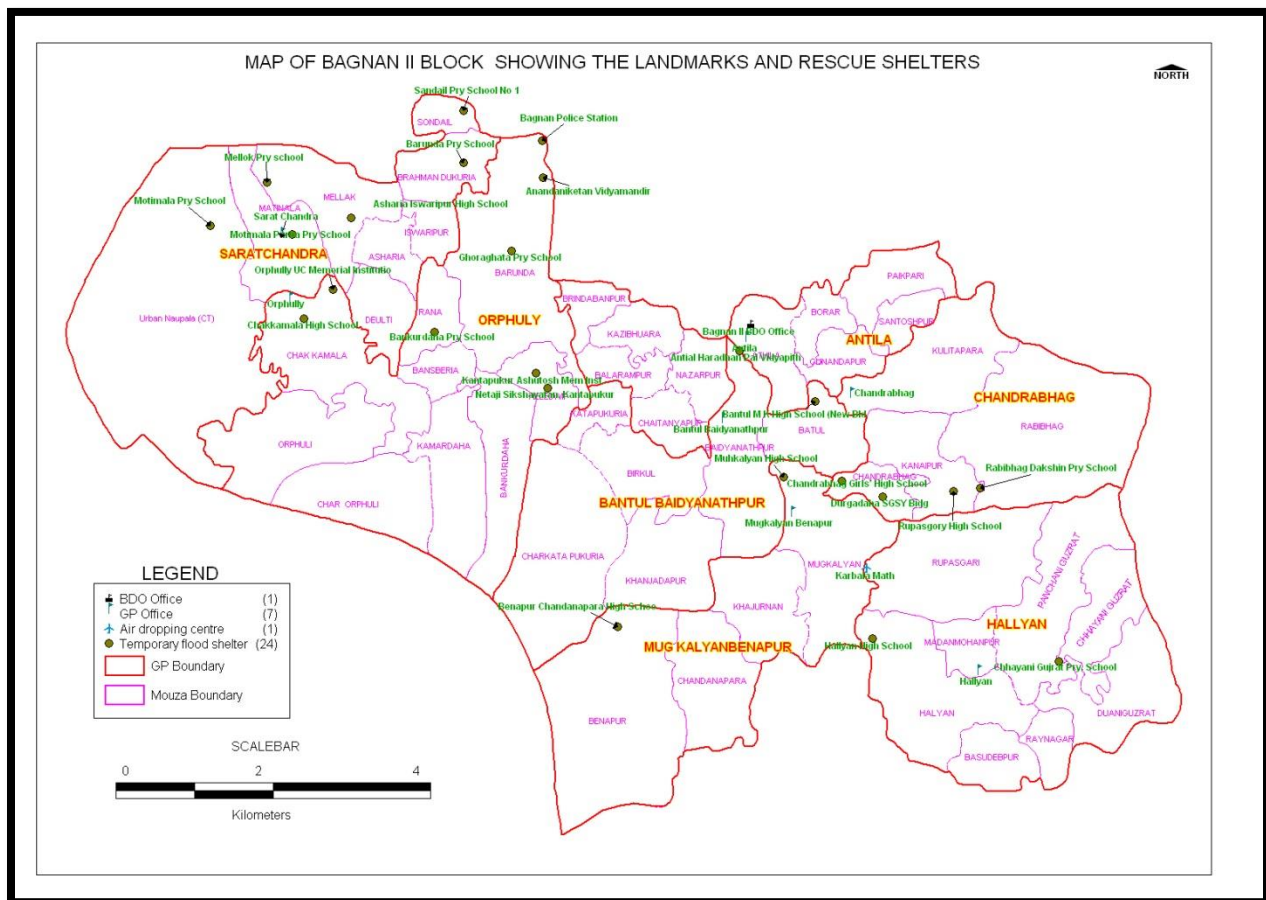


MAP OF AMTA II BLOCK SHOWING THE LANDMARKS AND RESCUE CENTRES

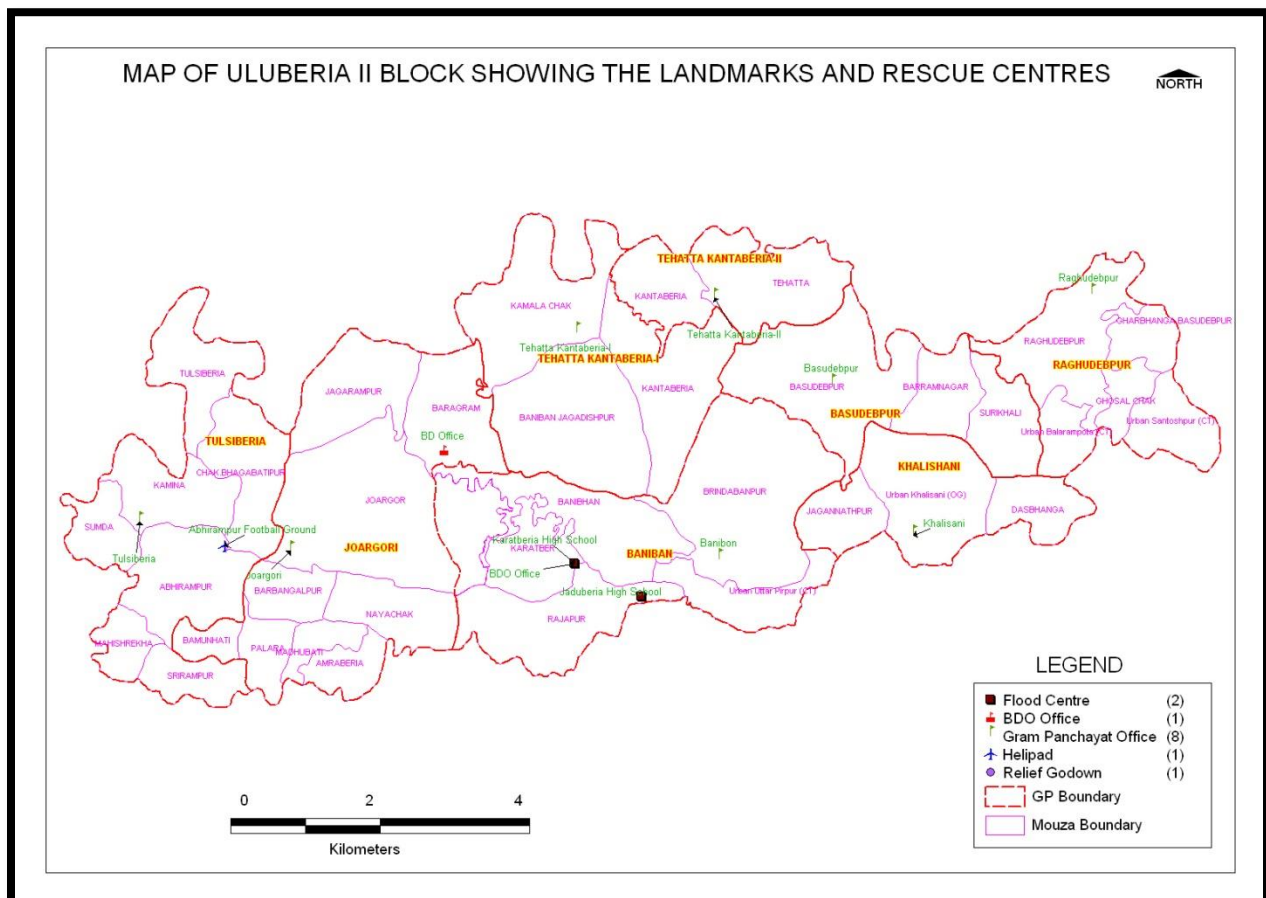
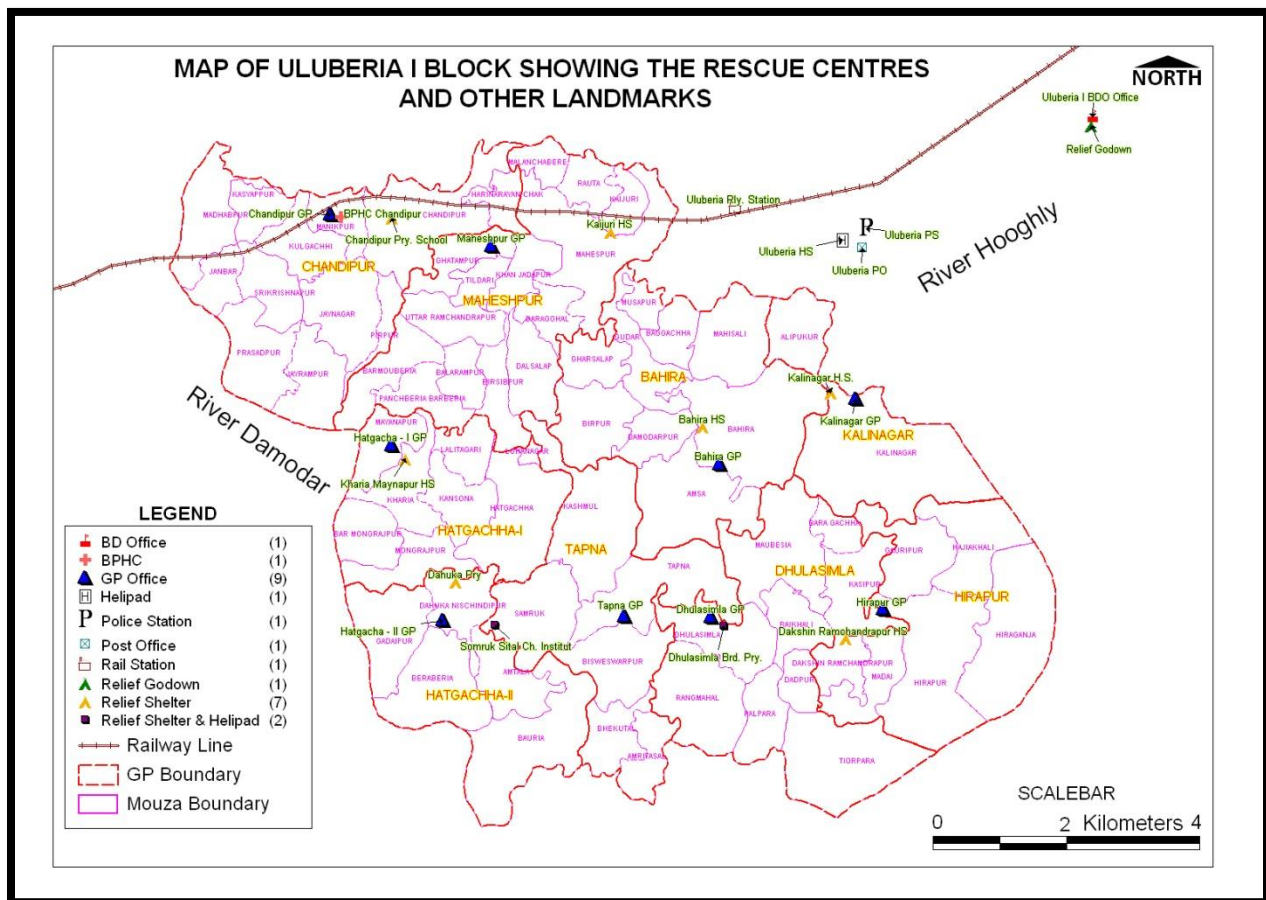


MAP OF BAGNAN I BLOCK SHOWING THE LANDMARKS AND RESCUE CENTRES



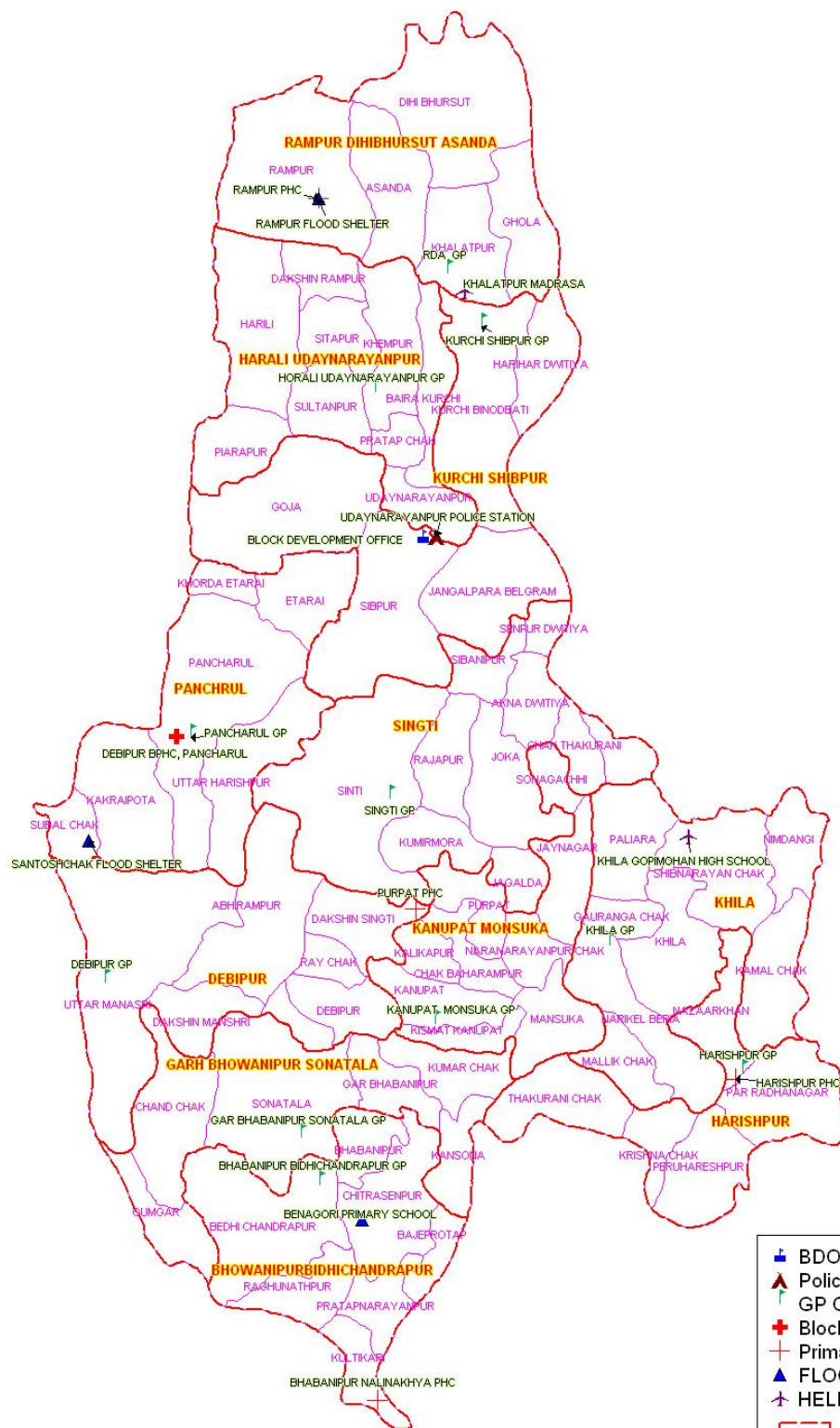






# MAP OF UDAYNARAYANPUR BLOCK SHOWING THE LANDMARKS AND RESCUE CENTRES

NORTH

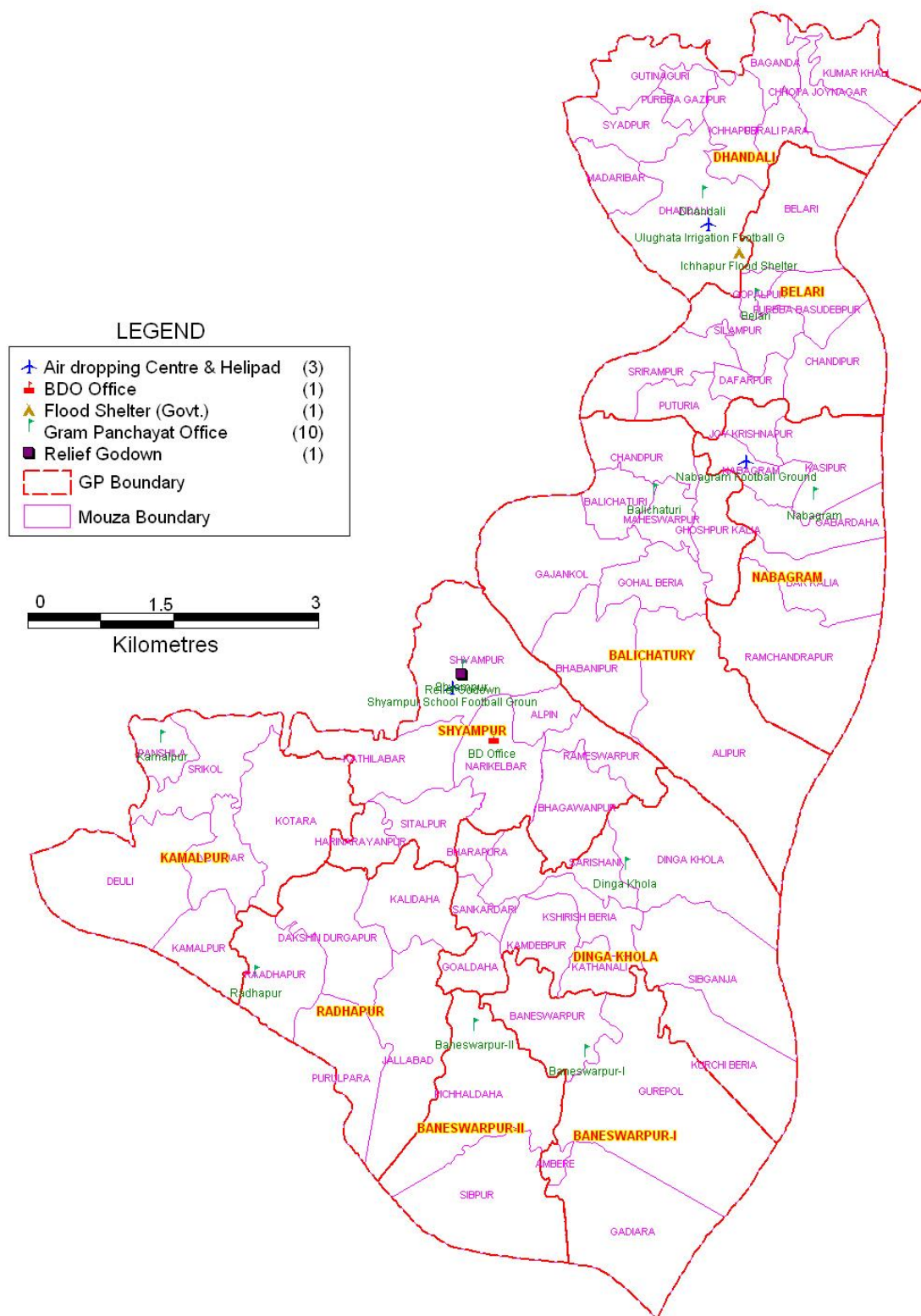


## LEGEND

	BDO OFFICE	(1)
	Police Station	(1)
	GP OFFICE	(11)
	Block PHC	(1)
	Primary Health Centre	(4)
	FLOOD SHELTER	(3)
	HELIPAD	(2)
	GP Boundary	
	Mouza Boundary	

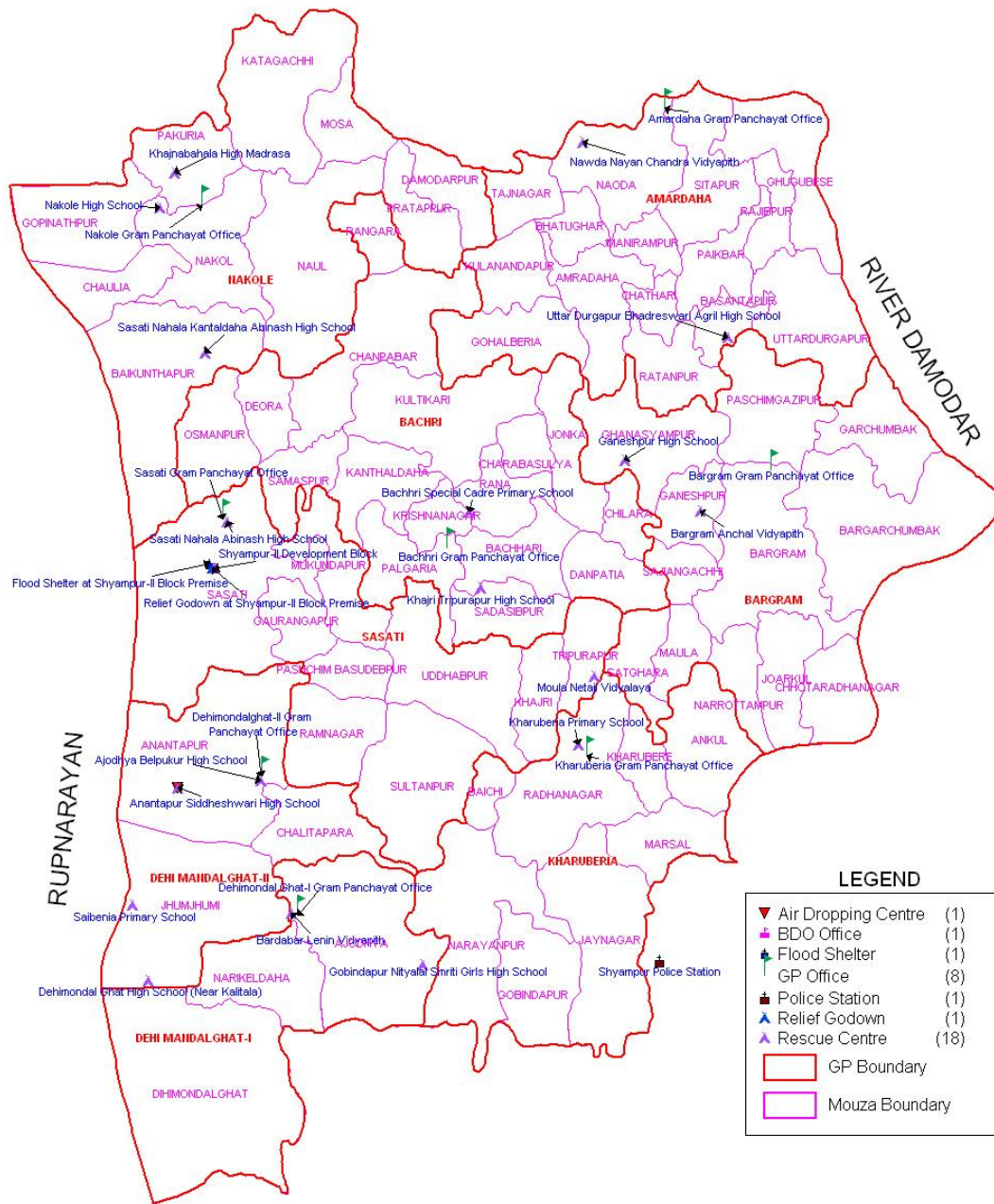


# MAP OF SHYAMPUR I BLOCK SHOWING THE LANDMARKS AND RESCUE CENTRES

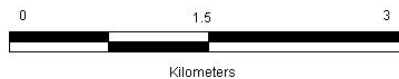




# MAP OF SHYAMPUR II BLOCK SHOWING LANDMARKS & RESCUE CENTRES

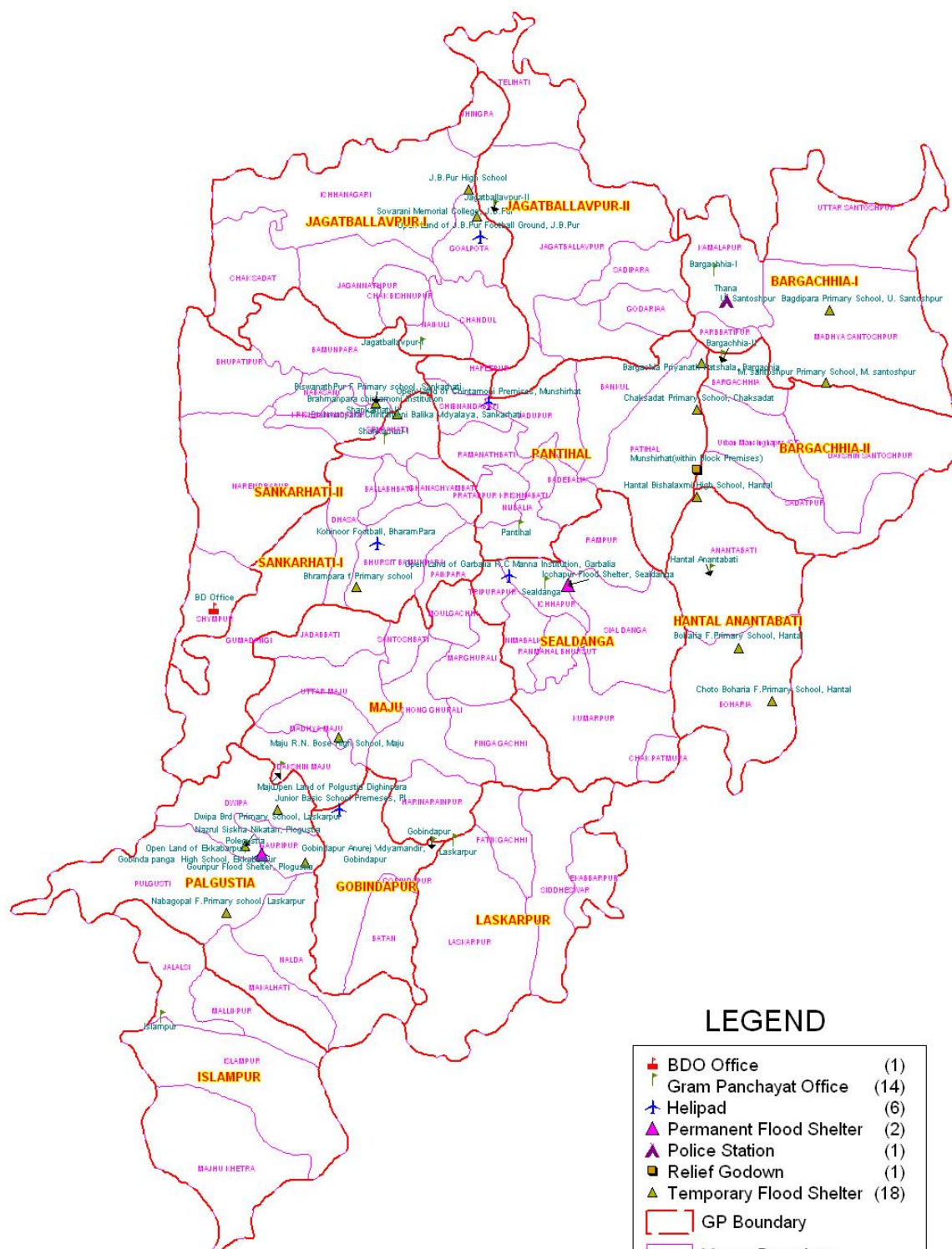


SCALEBAR



# MAP OF JAGATBALLAVPUR BLOCK SHOWING THE LANDMARKS AND RESCUE CENTRES

NORTH



0 1.5 3  
Kilometers

MAP OF PANCHLA BLOCK SHOWING THE LANDMARKS AND RESCUE CENTRES



LEGEND

	BDO Office	(1)
	Gram Panchayat Office	(11)
	Police Station	(1)
	Air Dropping Centre	(1)
	Rescue Centre	(1)
	GP Boundary	
	Mouza Boundary	

