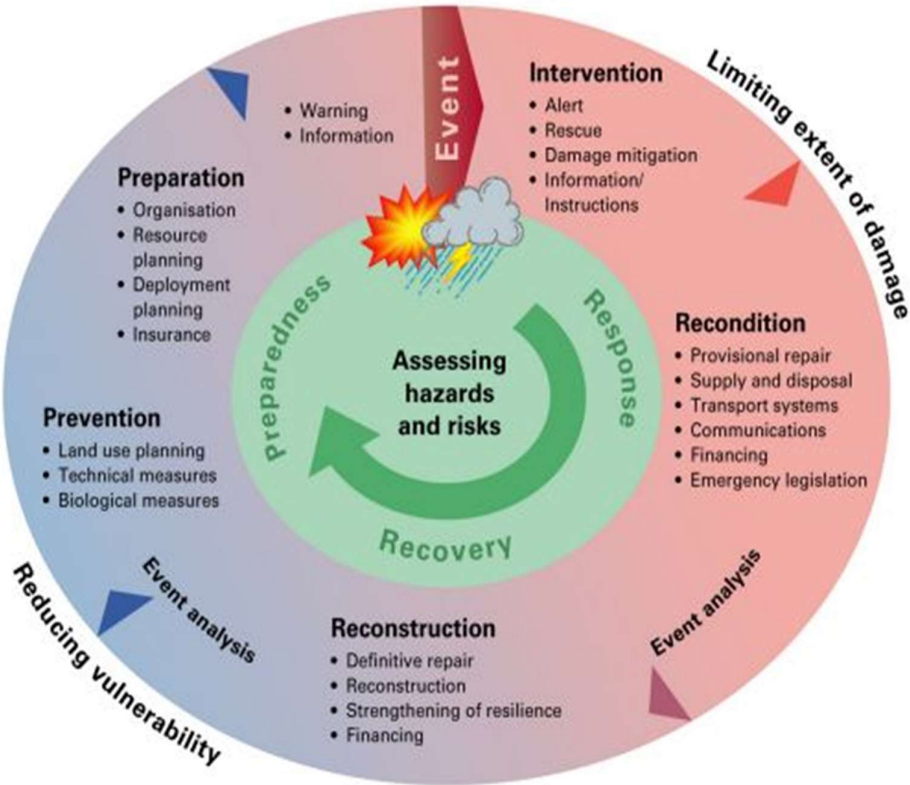


DISTRICT DISASTER MANAGEMENT PLAN



2023-24



PASCHIM BARDHAMAN DISTRICT

CONTENTS

Chapter 1:	Introduction: Aims, Objectives and to aware Stakeholders about their responsibilities, evaluation of last DDMP (procedure & methodologies)
Chapter 2:	Hazard, Vulnerability, Capacity & Risk Assessment (HVCA): Block wise Vulnerability, Socio-economic profile. Tool Techniques & methodology used for HVCRA, Risk Assessment, Dam Safety, Existing Status of Relief Godown.
Chapter 3:	AAPDA MITRA, COVID EX-GRATIA, Institutional Arrangements for Disaster Management (DM):, Block, municipalities and community level DM structure, IRS, EOC set-up, Accommodation of Guest House/Rest house.
Chapter 4:	Prevention and Mitigation Measures
Chapter 5:	Preparedness Measures, Early warning, QRT, Operation of EOC, mock drill Community preparedness, SOP for Railway Accident etc.
Chapter 6:	Capacity Building & Training Measures: Approach, Annual training plan & budget
Chapter 7:	Response and Relief Measures
Chapter 8:	Reconstruction, Rehabilitation and Recovery Measures
Chapter 9:	Financial Resources for implementation of DDMP state budget, mitigation fund, risk insurance
Chapter 10:	Procedure and methodology for monitoring, evaluation, updation and maintenance of DDMP
Chapter 11:	Coordination Mechanism for implementation of DDMP
Chapter 12:	Standard Operating Procedures (SOPs) and Check list
Chapter 13:	Plans from Line Department.
Chapter 14:	List of Events where Large Crowds Gather
Chapter 15:	Summarizing the Crisis Management Plan of KNI Airport, Andal

Chapter-1

Introduction

Paschim Bardhaman district is a predominantly urban mining-industrial district in West Bengal. The district head-quarter is located at Asansol. It was formed on 7 April 2017 after bifurcation of the erstwhile Bardhaman district as the 23rd district of West Bengal.

The rocky undulating topography with laterite soil found in Paschim Bardhaman district is a sort of extension of the Chota Nagpur plateau. For ages the area was heavily forested and infested with plunderers and marauders. The discovery of coal in the 18th century led to industrialization. Most of the forests in the coal-bearing areas have been cleared but some areas in the eastern part of the district remained thickly forested till more recent times and some are still there.

Aim:

This plan is being prepared with the aim to identify the vulnerable areas which are mainly affected by various hazards commonplace in this area, stock-taking of existing infrastructural facilities, need-assessment through auditing and overhauling for strengthening them where ever necessary and recommendation for necessary mitigation programme, taking experience from past events and creation of awareness amongst the people's representatives and Government employees in particular and the common people in general through community awareness programme as a part of capacity building. This plan may guide all of us to help people in distress. The plan has been prepared classifying disaster in three parts: **Pre-disaster** (Mitigation Management & Preparedness), **During disaster** (Crisis Management/ Response Mechanism), **Post-disaster** (Rehabilitation, Reconstruction & Recovery).

Part-1.

Identification of projects having local community level interventions for prevention and mitigation of floods in line with guidelines issued by MHA for State Disaster Mitigation Fund (SDMF).

For Paschim Bardhaman District, there are two major rivers flowing through the north and south – river Ajoy and river Damodar. On the west, there is Barakar.

Besides, there are rivulets (canals) like Nuni, Garui; the rivulets passing through the most populous areas of Asansol Municipal Corporation. These narrow streams carry the

Part-2.

Innovative measures for Disaster Management, including dissemination of Early Warning to all concerned.

Part-3.

Preparation of Action Plan- "Prevention and Management of Cold Wave/ Frost and Heatwave" to respond and mitigate the impacts of weather.

Part-4.

Popularization of the use of weather warning applications (Apps) developed by IMD such as Damini etc. through local bodies for thunderstorm/ lightning.

Objective:

The objective is to minimize the effect of natural or man-made calamity and save the life and property of the common people. Need for creativity, flexibility and multiple partnership and clarity of role are crucial for implementation of this programme.

So, to summarize, the crux of the objective focuses on:

- Minimizing the risk for human lives by means of an effective and efficient intervention;
- Protection of environment
- Protection of public property and public safety
- Initiate early and efficient response through proper utilization of all available resources.

Organization and assignment of responsibility

- In Sub-division, the Sub-Divisional Magistrate and in Municipal Corporation the Commissioner & the Secretary Municipal Corporation and in rural areas, Block Development Officers have the overall responsibility to mobilize the Cells and also to communicate / co-ordinate with various line departments to combat the disaster.
- **Responsibilities of Line Departments:**

Sl.	Department	Responsible Officer	Responsibility
1.	PWD (Roads)	EE, PWD (Roads)	Overhauling and maintenance of major road connectivity's so that essential supply-lines are not hampered, deployment of departmental personnel as a part of crisis management during disaster
2.	PWD(Cons.)	EE, PWD(Cons.)	Health check-up and maintenance of bridges and other public properties under their control. According necessary NOC specially for construction of Relief Godown / Flood/ Cyclone Shelter so that constructions are completed within the time frame and become usable during disaster. Deployment of departmental personnel as a part of crisis management during disaster
3	Irrigation	EE (Irrigation), DHW	Maintenance of reservoirs, canals and embankments. Control Room operations during monsoon period for daily flood report including DL/EDL of rivers, dissemination of prior information regarding discharge of water from reservoir in order to usher early evacuation from areas likely to be affected, etc. Deployment of departmental personnel as a part of crisis management during disaster.
4	Agriculture	ADA(Admin)	Dissemination of regular rainfall report during monsoon, Mouza-wise assessment of damage of crops, if any, during flood / drought, Deployment of departmental personnel as a part of crisis management during flood/drought/hailstorm/ pest-attack/ bio-chemical hazards etc., taking rehabilitation programme for affected farmers during post-disaster period.
5	ARD	Asst. Dir, ARD	Vaccination programme of live-stock, procurement of life-saving medicine, straw & concentrate in advance, construction of cattle shed during disaster, post-disaster rehabilitation programme.
6	Food & Supplies	SC(F&S)	Taking necessary action so that a rolling reserve of dry food is available in market and Ration items / Kerosene Oil is available at dealers' point. Deployment of departmental personnel as a part of crisis management during disaster.

Sl.	Department	Responsible Officer	Responsibility
7	Health & Family Welfare	ACMOH	Procurement of live-saving drugs, Anti-venom doses in advance, field level deployment plan for QRT of health personnel in order to curb the spread of any communicable disease during disaster.
8	ICDS		Deployment of ICDS Supervisors/Anganwadi workers/helpers in disaster prone areas for looking after primary health care, nutrition of children and assist in sanitization programme taken-up by H&FW Dept.
9	PHE	EE (PHE)	Ensure supply of safe drinking water, sanitization and maintenance of sources and supply lines of drinking water, during and post-disaster. Notify field level deployment during disaster.
10	Police	DCP(East), ADPC	Maintenance of Law & Order during and post-disaster, Help in Search & Rescue operations.
11	Fire & Emergency Dept.	Div. Fire Officer / OC Fire	Regular overhauling of Fire- Tenders, conducting emergency mock-drill and involve in joint S&R operations.
12	School Education. Dept.	ADI	Letting school buildings for temporary shelters for victims of disaster, if required, in disaster prone areas.
13	Fishery	ADF	Extending rehabilitation to fishermen/ fish-farmers affected by disaster.
14	WBSEDCL	Div. Manager	Deployment of departmental personnel with logistics at field level for maintenance of power supply specially in disaster hit areas.
15	BSNL	GMT	Plan for covering mobile shadow zone, deployment of departmental personnel with logistics at field level for maintenance of tele-communication in disaster hit areas.

During an emergency or disaster, the District Administration takes immediate and appropriate action to determine mobilizes and coordinate resource needs. But the Local Self govt. also has the responsibility do the immediate action.

Many of the potential risks, whenever possible, would be preceded by a period of increased alertness, giving public officials time to take preventive, precautionary or protective measures to reduce loss of life and minimize damages.

Chapter 2

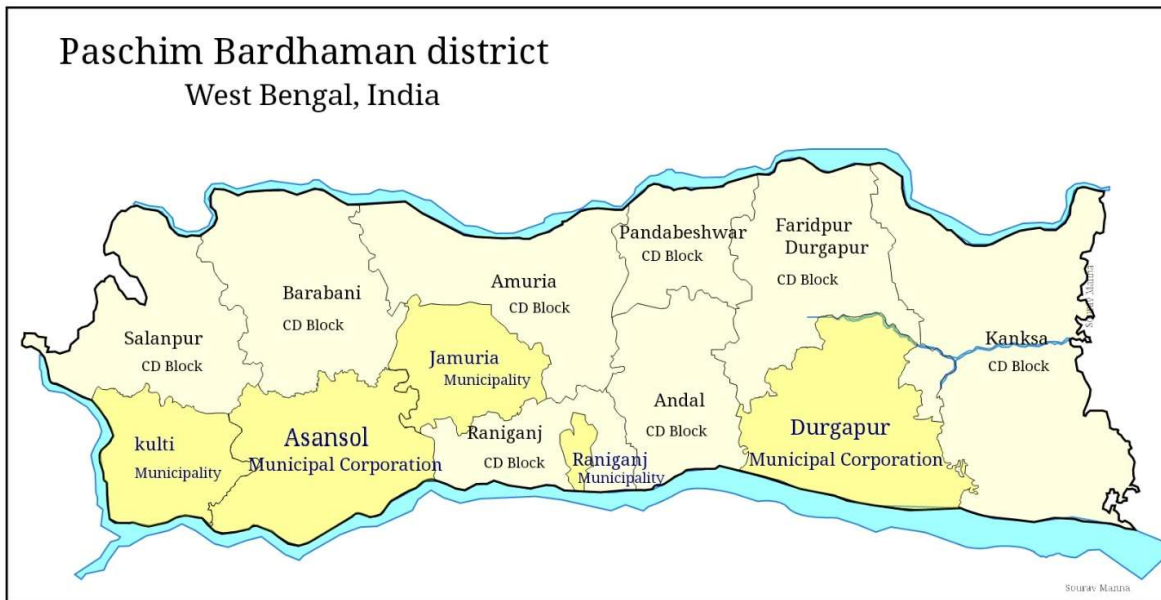
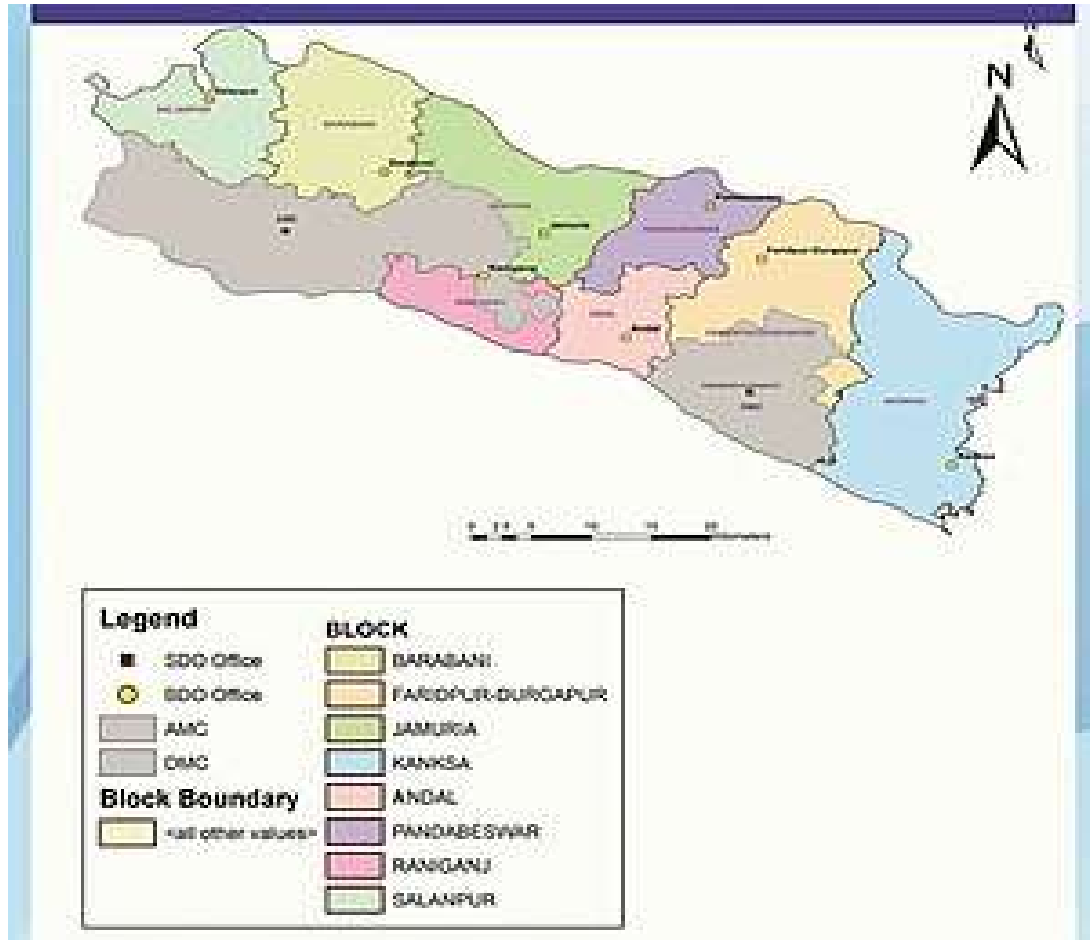
Hazard, vulnerability, Capacity & Risk Assessment (HVCRA)

A. Block wise and Corporation wise Vulnerability Analysis

1	2	3	4	5	6	7	8	9	10
Name of Block/ Municipality	If prone to flood mention number of people in vulnerable Zone	If vulnerable to cyclone mention number of people likely to be affected in case of cyclone	If vulnerable to Tsunami mention number of people likely to be affected in case of Tsunami	If vulnerable to landslide, mention number of people likely to be affected	If vulnerable to chemical disaster mention number of people likely to be affected	people likely to be affected by other disaster, if any (mention disaster and number of people)	Total number of people given in columns 2 to 7	Earthquake vulnerable Zone	Property ranking as per vulnerability to multiple disasters
Andal	670, the vulnerable zone like Srirampur, Madanpur and Ramprasadpur GPS	N.A	N.A	N.A	N.A	1. Land Subsidence in the area of ECL Pit occurred time to time and mitigation measure taken by the ECL authority. Chanchani Colliery and Madhapur Colliery, there are nearing 200+540 =740 people may suffer. (2) Due to drought partly in three GPs Ukhra, Khandra, Kajora, no of more than 12000 people affected every year	13440	Zone 3	1. Flood Like Situation 2. Drought.
Pandaveswar	Gobindpur - 102, Konda-124, Metal Dhowrah-42	N.A	N.A	N.A	N.A	1) Land subsidence in the area of ECL pit occur time to time. Mitigation measures taken by the ECL authority with the help of Block administration. Dannya-2-975 population (approx), Bangal basti area - 350 family (approx), Sonabandhi 105 family approx) DVC Para 150 family (approx). 2) More than 10,000 of peoples may be affected during the time of drought under Pandaveswar Dev. Block Mitigation measures taken by the ECL and Block Administration by	Approximately 14000 population	Zone 3	1. Land Subsidence 2. Flood Like Situation 3. Drought

1	2	3	4	5	6	7	8	9	10
Name of Block/ Municipality	If prone to flood mention number of people in vulnerable Zone	If vulnerable to cyclone mention number of people likely to be affected in case of cyclone	If vulnerable to Tsunami mention number of people likely to be affected in case of Tsunami	If vulnerable to landslide, mention number of people likely to be affected	If vulnerable to chemical disaster mention number of people likely to be affected	people likely to be affected by other disaster, if any (mention disaster and number of people)	Total number of people given in columns 2 to 7	Earth quake vulnerable Zone	Property ranking as per vulnerability to multiple disasters
						means of supply of drinking water.			
Kanksa	700 peoples Shilampur, Amlajora, Shibpur Mouza	N.A	N.A	N.A	N.A	In Summer season scarcity of Drinking Water is occurred in different places of this block area	700	Zone 3	1. Flood Like Situation 2. Drought
Durgapur - Faridpur	7735	N.A	N.A	N.A	N.A	Drought 12000	19735	Zone III	1. Flood Like Situation 2. Drought.
Raniganj	500 nos. people vulnerable due to flood like situation at Nupur, Ballavpur, Raniganj Block	Not vulnerable to Cyclone	N.A	250 may affected due to subsidence at Ratibati/ Nimcha Area	N.A	Drought 2000 people likely to be affected Drought like situation during summer season at Jemari/Tirat/Ratibati area	2750 Nos	Zone-3	1. Land Subsidence 2. Flood Like Situation 3. Drought
Salanpur	Bathanbari-400 Sidhabari-700 Brindabani-600	N.A	N.A	N.A	Dendua-170 Salanpur-150	Drought- (Entire Block)- 11180	12210	N.A	1. Flood Like Situation 2. Drought. 3. Industrial Disaster
Barabani	1829 nos Peoples	N.A	N.A	N.A	N.A	Drought 7000 people likely to be affected Drought like situation during summer season at Sidhabari, Panchra, Madanpur, Khoshanagar, Nandai	8829	Zone 3	1. Flood Like Situation 2. Drought
Jamuria	1800 nos Peoples of Sidhapur and Darbardanda	N.A	N.A	N.A	N.A	1. Drought 10000 people likely to be affected by Drought for scarcity of Drinking water in different G.Ps during summer season 2. Land Subsidence due to coal mines at Kenda Gram Panchayat area near about 300 peoples were to be shifted to local	12100	Zone 3	1. Flood Like Situation 3. Drought. 3. Land Subsidence

1	2	3	4	5	6	7	8	9	10
Name of Block/ Municipality	If prone to flood mention number of people in vulnerable Zone	If vulnerable to cyclone mention number of people likely to be affected in case of cyclone	If vulnerable to Tsunami mention number of people likely to be affected in case of Tsunami	If vulnerable to landslide, mention number of people likely to be affected	If vulnerable to chemical disaster mention number of people likely to be affected	people likely to be affected by other disaster, if any (mention disaster and number of people)	Total number of people given in columns 2 to 7	Earth quake vulnerable Zone	Property ranking as per vulnerability to multiple disasters
						Schools for 7 days.			
Durgapur M.C	2100 nos Peoples of Ward no. 13,14,33,34, 36,37,38,39, 41,43	N.A	N.A	N.A	N.A	In Summer season scarcity of Drinking Water is occurred in different places of this Municipal area	2100	Zone 3	1.Flood Like Situation 2. Drought
Asansol M.C	2800 nos. Peoples of Ward No. 41,27,88,90, 79,08,09,32, 19,70,	N.A	N.A	N.A	N.A	In Summer season scarcity of Drinking Water is occurred in different places of this Municipal area	2800	Zone 3	Flood Like Situation 3. Drought



B. Socio economic profile

Geographical Features

- Geographical Location

Latitude		Longitude	
North	South	East	West
23° 53' N	22° 56' N	88° 25' E	86° 48' E

- Area (Census 2011) 7024.00 Sq. Km
- Annual Rainfall (as on 2016) 1220 mm
- Temperature (as on 2016) Maximum 43° C
Minimum 8° C

Administrative Setup (as on 2018)

- No. of Subdivisions 2
- No. of CD Blocks / Panchayat Samities 8
- No. of Police Stations 29
- No. of Gram Panchayat 62
- No. of Mouzas 642
- No. of Municipalities / Municipal Corporations 0 / 2

Demographic Features (2011 Census)

- Population: 28,82,031 (Male 52%, Female 48%) (Rural 18.39% Urban 81.61%)
- Sex Ratio (Per 1000 Male): 922
- Literacy Rate: 78.75%
- Religion wise Population

Religion	Population	Percentage to total population
Hindu	24,42,414	84.75
Muslim	3,84,027	13.32
Christian	12,636	0.44
Others	42,954	1.49

❖ District Domestic Product (DDP) and Per Capita Income [2013-14 at base 2004-05]

- DDP (Current Price) (Rs. in Crore) : 75706.51
- DDP (Constant Price) (Rs. in Crore) : 38923.07
- Per Capita Income (Current Price) (Rs.) : 81606.81
- Per Capita Income (Constant Price) (Rs.) : 40634.07

❖ **Work Force Participation (in Per cent) (as per Census 2011)**

- Total Worker: 37.72% (Main 28.07%, Marginal 9.65%)

❖ **Educational Facilities**

Type of Institution	No. of Institution	Enrolment
School	1321	3,69,706
College	22	12,526
University	1	778

❖ **Agriculture & Land**

- Area Irrigated (Thousand Hectare) (as on 2013-14) : 5664.3
- Net Area sown (Thousand Hectare) (as on 2015-16) : 47.123
- Area under Forest (Thousand Hectare) (as on 2015-16): 12.195
- Production of Primary Crops (Tonnes) (as on 2015-16)
 - Total Food Grains (Cereals & Pulses) : 2,03,174
 - Fruits (2017-18) : 6,452 MT
 - Vegetable : 91091
 - Spice : 468 MT
 - Oilseed : 703

❖ **Basic Amenities**

- Electricity
 - Domestic Consumption (Thousand KWH, April,17 to March'18) : 4,09,030
 - Villages Electrified (as on 31st March 2018): 330 (100% of inhabited villages)
- Roads & Transport Facilities
 - Length of total Surfaced road under Asansol Highway Division, P.W (Roads) Dte. – 364 Km
 - No. of Registered Motor Vehicles (as on 31/03/2018) : 3,39,581
- Rural Population covered by main source of drinking water (as on 12/04/2018): 63.56 %
- No. of Fair Price Shops (as on 31st March, 2018): 692 (including Statutory & Modified Ration Shop)

Distribution of Workers according to their Activities

S L	Name of the Block	Persons/Male/ Female	Total Population	Total Workers	Cultivators	Agricultural Labors	House Hold Industry Workers	Other Workers
1	Salanpur	Male	57546	43302	1842	2441	850	38169
		Female	54251	7756	449	847	283	6177
		Persons	111797	51058	2291	3288	1133	44346
2	Barabani	Male	63950	34287	3539	6400	652	23696
		Female	59648	7219	380	2316	377	4146
		Persons	123598	41506	3919	8716	1029	27842
3	Jamuria	Male	64578	34231	4538	8883	579	20231
		Female	58598	6889	359	2285	226	4019
		Persons	123176	41120	4897	11168	805	24250
4	Raniganj	Male	55835	28392	474	1130	485	26303
		Female	50606	4969	90	256	170	4453
		Persons	106441	33361	564	1386	655	30756
5	Andal	Male	98149	50156	1073	1578	1210	46295
		Female	88766	8975	223	448	297	8007
		Persons	186915	59131	1296	2026	1507	54302
6	Pandaveswar	Male	85598	41583	1169	2968	899	36547
		Female	77740	8267	232	779	751	6505
		Persons	162938	49850	1401	3747	1650	43052
7	Durgapur-Faridpur	Male	60478	32902	4095	8912	707	19188
		Female	55446	7220	310	3057	337	3516
		Persons	115924	40122	4405	11969	1044	22704
8	Kanksa	Male	91350	53636	6117	13548	1134	32837
		Female	86775	21844	733	9245	1477	10389
		Persons	178125	75480	6850	22793	2611	43226

❖ Geographical area (In Hect.)

A. Paddy

SL	Name of the Block/Municipal Corporation	Agricultural land			Grazing level (H)	Forest Land
		High	Medium	Low		
1	Durgapur-Faridpur	4881	5407	657		
2	Kanksa	5608	6172	720		
3	Andal Pandabeswar	1300	1440	175		
4	Barabani	2185	2421	294		
5	Jamuria- II	2083	2307	280		
6	Raniganj	468	519	63		
7	Salanpur	1695	1877	228		
8	A.M.C	1992	2205	268		
Total		20212	22348	2685	1649	10699

B. Land holding pattern (No of H.H)

SL	Name of the Block/Municipal Corporation	Big Farmers	Marginal farmer	Small farmer	Agricultural farmer	Landless farmer	Total
1	Durgapur-Faridpur	88	3374	1207	4670	3078	7748
2	Kanksa	95	3620	1295	5010	3050	8060
3	Andal Pandabeswar	29	1100	394	1523	3045	4568
4	Barabani	23	882	315	1220	2685	3905
5	Jamuria- II	39	1481	530	2050	3362	5412
6	Raniganj	10	379	136	525	987	1512
7	Salanpur	26	986	353	1365	875	2240
8	A.M.C	---	---	---	---	7490	7490
Total		310	11823	4230	16363	24572	40935

C. Irrigation Facility

L	Name of the Sub-Division	Ponds	Anger Wells	LI Points	Shallow T.W	Total (in Hect)
	Durgapur	3877	3814	1118.88	1200	2931.42

D. Rain Recording Station

SL	Location	Contact Numbers
1	Durgapur	Sanjoy Majumder-9083973938
2	Asansol	Md. Aslam Parvez- 9851907721
3	Kanksa Block Seed Farm	Ajrun Ch. Soren- 9735825731

E. Dam Safety

SL	Name of Dam under the Block	Location	Length of Dam	Crest Level of Dam	FRL/FTL OPL	In case of flood villages that may get affected with number of people	Remarks
1	Mandira at Barabani Block	Vill- Kankskuli, PS- Barabani, Dist.- Paschim Bardhaman	380.00M	138.68M	135.63M	Mandira - 10000. Kankskuli - 8000.	No history of Flood in past twenty years
2	Puinala at Barabani Block	Vill- Amlala, PS- Barabani, Dist.- Paschim Bardhaman	487.68M	126.79M	125.27M	Amlala - 8000. Raniganj Gram - 7000	No history of Flood in past twenty years
3	Nachan at Durgapur-Faridpur Block	Vill- Nachan, PS- Durgapur - Faridpur, Dist.- Paschim Bardhaman	853.44M	30.78M	29.56M	Nachan- 10000. Parulia 8000	No history of Flood in past twenty years

Sd/-
Executive Engineer,
Damodar Head Works Division
Durgapur-02

Vulnerability Related to Heavy Rain or Flood Like Situation

Name of Block / Corporation	Name of Village /Mouza or Ward Number	Index No. as per Map	Population	Weather likely partly flooded of Fully?	Population likely to be affected	Population Projected to be shifted to flood shelter	Location of Flood Shelter / Cyclone Tagged for evacuation	Within inundation prone village / Mouza. ward – list offices / Health Centre / schools/power station/ railway station /bus stand/factory etc. likely to be flooded if any	Remarks
Salanpur	Bathanbari	1	953	Partly	280	70	Bathan Beria F.P School	Nil	
	Sidhabari	2	717	Partly	220	50	Sidhabari F.P	Nil	
	Kalipathar	3	1500	Partly	450	130	Kalipathar F.P & Aladi MSK	Nil	
	Brindabani	4	754	Partly	200	60	Brindabani F.P	Nil	
Asansol Municipal Corporation	Dildarnagar, R.K Dangal, Railpar (W.No-41,27)	5	15000	Partly	700	150	Rupkatha Cinema Hall	Nil	
	Hossain Nagar, Kumar Bazar (W.No-88/90)	6	5000	Partly	1450	450	Rukia Begam Junir High School & Runai majar sarif	N.A	
	Satrinagar (W.No-79)	7	3000	Partly	200	N.A	N.A	N.A	
	Sathgram Fatak (W.No-8)	8	500	Partly	100	N.A	N.A	N.A	
	Bogra Chandnipukur (W.No-32/9)	9	1500	Partly	100	N.A	N.A	N.A	
	Old Sitarampur near-Nichu bazar (W.No-19)	10	2000	Partly	200	N.A	N.A	N.A	
Asansol Municipal Corporation	Biri Dangal (W.No-70)	11	2500	Partly	150	N.A	N.A	N.A	
	Roshna, Panuria G.P	12	937	Partly	375	700	Panuria G.P & Digal Pahari F.P	N.A	
Barabani	Putulia, Panuria G.P	13	560	Partly	224	400	Panuria G.P & Digal Pahari F.P	N.A	
	Parulberia, Panuria G.P	14	1897	Partly	1140	500	Panuria G.P & Digal Pahari F.P	N.A	
	Amulia, Jamgram G.P	15	178	Partly	90	30	Jamgram G.P, Jamgram Anchalik High School	N.A	
Jamuria	SiddahPur	16	1829	Partly	1200	600	Bagdiha Siddhapur High School	N.A	

Name of Block / Corporation	Name of Village /Mouza or Ward Number	Index No. as per Map	Population	Weather likely partly flooded of Fully?	Population likely to be affected	Population Projected to be shifted to flood shelter	Location of Flood Shelter / Cyclone Tagged for evacuation	Within inundation prone village / Mouza. ward – list offices / Health Centre / schools/power station/ railway station /bus stand/factory etc. likely to be flooded if any	Remarks
	Darbardanga	17	1316	Partly	600	250	Darbardanga F.P	N.A	
Raniganj	Nupur (Ballavpur G.P)	18	2464	Partly	500	500	ICDS Centre & Nupur Primary	N.A	
Andal	Madanpur	19	1400	Partly	200	200	Madanpur F.P	N.A	
	Babuisol	20	1580	Partly	150	150	Babuisol F.P	N.A	
	Srirampur	21	4500	Partly	120	120	Srirampur F.P	N.A	
	Ramprasadpur	22	1500	Partly	200	120	Community Hall	N.A	
Pandabeswar	Gobindapur	23	2920	Partly	102	50	Baidynathpur High School	N.A	
	Konda	24	4950	Partly	124	60	Baidynathpur High School	N.A	
	Metal Dhoara	25	420	Partly	42	15	Kendra Jaipuria Hindi High	N.A	
Durgapur-Faridpur	Gogla	26	1750	Partly	175	50	Gogla Community Hall	N.A	
	Nutandanga	27	1545	Partly	190	75	Gogla Community Hall	N.A	
	Pansuli	28	1440	Partly	150	45	Gogla Community Hall	N.A	
Durgapur-Faridpur	Gourbazar	29	1410	Partly	220	70	Gourbazar Community Hall	N.A	
	Srikrishnapur	30	1590	Partly	200	65	Gourbazar Community Hall	N.A	
Durgapur Municipal Corporation	1. Waria-Mana (Ward No.36, 37, 38, 39, 41, 43)	31	74257 nos.	Partly	1100 nos	350 nos.	1. Riverside Club 2. Shyampur Pry. School	3. Tamla Pry. School Angadpur water treatment plant, Waria I/C.	
	2. Main Gate(Tamla Naullah) and old court area, Ward No. 13,14,33, & 34	32	61464 nos.	Partly	1000 nos.	300 nos	1. Chand Devi Dalmia Primary School 2. Tamla SSK 3. Tamla Pry.School.		
	Kanksa	Shilampur	33	5213	Partly	1115	300		Shilampur Community Hall

Name of Block / Corporation	Name of Village /Mouza or Ward Number	Index No. as per Map	Population	Weather likely partly flooded of Fully?	Population likely to be affected	Population Projected to be shifted to flood shelter	Location of Flood Shelter / Cyclone Tagged for evacuation	Within inundation prone village / Mouza. ward – list offices / Health Centre / schools/power station/ railway station /bus stand/factory etc. likely to be flooded if any	Remarks
	Amlajora	34	4229	Partly	829	122	Amlajora High School		
	Shibpur Mouza	35	10501	Partly	3205	330	Shibpur Junir High, Bidbahar G.P Jamda Ghih School		

In case of disaster like cyclone, Earthquake etc. all places may be affected. In that case an evacuation plan made by the local authority is kept on their own custody. In summer season some pockets of entire District is suffered due to scarcity of Drinking Water. In that case local administration supply them drinking water through water tanker.

Risk assessment

Type of hazard	Time of occurrence	Vulnerable areas
Flood like situation	June to October	AMC Ward no. 41,27,88,90,79,08,32,09,19,70
		Jamuraia -SidhaPur Darbar Danga
		Raniganj- Nupur
		Andal- Madanpur, Babuisol, Srirampur, Ramprasadpur
		Pandaveswar- Gobindpur, Konda, Metal Dhoara
		Durgapur-Faridpur- Gogla, Notundanga, Pansiuli, Gourbazar, Srikrishnapur
		Kanksa- Shilampur, Amlajora, Shibpur
		Barabani- Roshna, Putulia, Parulberiya, Amulia
		Salanpur- Bathanbari, Sidhabari, Kalipathar, Brindabani
DMC- Ward no. 36,36,38,39,41,43,13,14,33,34		
Drought	March to May	Almost All the Blocks
Sunstroke	April to June	All Blocks
Cyclone		All Blocks
Earthquake		All Blocks
Epidemic	July to September	All Blocks

CHEMICAL / INDUSTRIAL HAZARD

PASCHIM BARDHAMAN DISTRICT

1

INTRODUCTION:-

Paschim Bardhaman district is a predominantly urban mining-industrial district in West Bengal having only 18.39% rural habitation against 81.61% urban, which was formed on 7th April, 2017 after bifurcation of erstwhile Burdwan district. It spread over 1603 Sq. Km comprising 16 Police Stations, 8 Blocks, 2 Municipal Corporations, 2 Sub-Divisions and 62 GPs.

Asansol Sub-Division is famous for coal field and Durgapur Sub-Division for industrial hub hosting major PSUs like Durgapur Steel Plant, NTPC-SAIL Power Supply Ltd., DTPS, DSTPS, Durgapur Projects Ltd., Durgapur Chemicals Ltd., IOCL-HMRB pipeline division, IOCL Bottling Plant, IOCL/HPCL/BPCLOil Reservoirs etc. (which are considered Major Accident Hazard (MAH) Units) and Corporate Sectors like Graphite India Ltd., Philips Carbon Black Ltd. ESSAR Oil and Natural Gas Production Ltd. Ultratech Cement, Matrix Fertilizer and a number of Ferro-Alloy Factories like Shyam Steel, Neometaliks, Jay Balaji Industries and many more. Asansol also hosts Major Accident Hazard Industries like ISSCO, Burnpur; Great Eastern Energy Corporation Ltd. (GEECL),M-10, ADDA Ind. Estate, Asansol; UNITED SPIRITS PVT. LTD., Asansol etc.

Since all the above mentioned industries have their by-products of toxicity / industrial slag/ effluents so there is always a chance of outbreak of chemical hazards and since it is multi-hazard prone area, occurrence of even one hazard like mine subsidence, earthquake, fire hazard etc. can augment the possibility of outbreak of chemical hazard in more virulent way.

2

2.1 RISK ZONATION BASED ON PERCEPTION STUDIES AND VULNERABILITY MAPPING

Before giving a shape to this Plan, a perception study was conducted throughout the District in order to find a track of past history of occurrence of accidental fire during last 20 years.

2.1.1 Brief History of the Occurrence of Chemical Hazard in district of Paschim Bardhaman:

Paschim Bardhaman district is primarily urban mining industrial district in West Bengal located at 22°56'N to 23°53'N and 86°48'E to 88°25'E and is new 23rd No district of West Bengal comprises two subdivisions viz. Asansol Sadar and Durgapur. There are 438 No. of Factories and various No. of Mining areas situated in this districts. The discovery of Coal in 18th Century led to industrialisation. Most of the forests in the coal-bearing areas have been cleared.

For long the region Raniganj has been the single largest coal supplier in India, now contributing about a quarter of the total output in the country located at 23.62°N, 87.13°E; All non-cocking coal mines were nationalized in 1973 and put under the management of ECL (Eastern Coalfield Limited) in 1975, but since the inception of coal mining, a number of underground coal mines have been declared abandoned after extraction of coal to their maximum possible extent and thereafter left behind, which resulted a huge deposit of Coal Bed Methane (CBM) gas. A further

illegal coal extraction from those abandoned mines by coal mafias often results in spreading out of CBM toxicity and thus create hazard to the society.

MAJOR ACCIDENT HAZARD UNITS IN PASCHIM BARDHAMAN

Sl. No.	Name of Industry	Address	Type of Products / By-Products
1	Bharat Petroleum Corpn. Ltd.	Rajbandh Top, Durgapur	Oil Installation (HSD, SKO, MS)
2	Indian Oil Corpn. Ltd	Rajbandh, Durgapur	Oil Installation (HSD, SKO, MS)
3	Hindustan Petroleum Corpn. Ltd.	Rajbandh, Durgapur	Oil Installation (HSD, SKO, MS)
4	IOCL Bottling Plant	Lenin Sarani, PO. Durgapur	LPG Bottling
5	Durgapur Steel Plant	Waria, Durgapur	Metallurgical Iron & Steel Products / CO-BF Gas (By-Product)
6	Durgapur Projects Ltd.	Durgapur-1	Power Generation
7	Durgapur Chemicals Ltd.	Durgapur- 713215	Caustic Soda Lye Liquid Chlorine,HCL, Benzene etc.
8	Dinman Polypack	Durgapur	Polythene materials
9	Shyam Ferro Alloys	Nachan Rd. Durgapur	Ferro Alloy / Blast Furnace Gas (By-Product)
10	Neo Metaliks Ltd.	Gopalpur, Durgapur	Metallurgical pig Iron
11	Jay Balaji Industries Ltd.	Banskopa,Durgapur	Pig Iron, Ferro Alloy
12	DTPS	Waria, Durgapur	Power generation and supply
13	DSTPS (Owned by DVC)	Andal	power generation and supply
14	NTPC-SAIL Power Supply Co. Ltd.	Durgapur	Power generation and supply
15	Philips Carbon Black Ltd.	Durgapur	Carbon
16	Graphite India Ltd	Sagarbhanga, Durgapur	Graphite
17	ESSAR Oil & Gas Exploration and Production Ltd.	Durgapur	Extraction and Supply CBM gas for industrial use
18	ISSCO	Burnpur, Asansol	Metallurgical (Iron & Steel)
19	GEECL	Asansol	Coal Bed Methane
20	United Spirits Ltd.	Asansol	Alcohol distilleries.

History of incidents due to industrial & chemical hazards that happened during last 20 - 25 years are depicted hereunder:-

Time Pd.	Year	Location of occurrences	Loss of Human Lives	Approx. Estimate of Loss of property	Remarks
Prior to 1990	Not Known	Not Known	-	Not Known	
1990-2000	Not Known	Not Known	-	Not Known	

2001-2010	2004	IOCL Rajbandh, Durgapur due to lightning strike	-	3Cr. Appx	
	July, 2010	CO-BF gas leakage from Durgapur Steel Plant	-	Not Known	26 labourers & 2 technicians took ill and admitted to hospital
2011-2020	Dec. 2014	CO gas leakage from Blast Furnace of DSP	2	Not Known	
	2019	CO-BF Gas Leakage	-	Not known	3 workers took ill and admitted to hospital
	2014	Benzene leakage DPL	-	Not Known	
	2018	Dinman Poly Pack Industry, Rajbandh	-	Not Known	

2.2 Major Hazards in the district of Paschim Barddhaman that can augment Industrial and Chemical related accidents are:

Earthquake, Fire- Smoke/ Electrical /Ground etc., Pollution due to unplanned disposal of industrial or chemical wastes, long time heap of raw material for chemical industries during lock down period.

A point of concern needs to be discussed that a number of underground pipelines carrying petroleum products like H-M-R-B (Haldia- Moregram-Rajbandh- Barauni) pipeline of IOCL and CBM underground pipelines of GEECL are spread throughout the way of Asansol – Durgapur and often encroachments and illegal construction over the ROW of HMRB pipeline are noticed by the Authority concerned. This encroachments and illegal construction, if not properly and timely dealt with, may cause damage to underground pipeline leaving a risk of severe catastrophe.

ROLES AND RESPONSIBILITIES OF VARIOUS STAKEHOLDERS & SOP THEREOF:-

Sl. No.	Name of Stakeholder	Responsibility
1	Concerned MAH Units	<ol style="list-style-type: none">1. Overhauling of Plant and machineries at regular interval2. Safe disposal of Industrial /Chemical wastes3. Avoiding practice of stacking raw material for long time4. Maintain full safety protocol of man and machine.5. They should prepare hospital tagging plan for their workers.6. The MAHs, who have ROW should specifically demarcate it and share the road map with local Administration.7. Organizing mock drill from time to time.
2	Dy, Dir, of Boilers / Chief Insp. Of Factories	<ol style="list-style-type: none">i) Prepare monthly programme for safety inspection of MAH Units and intimate the programme to the District Magistrate (as the Chairperson of the DDMA).ii) Submit safety audit report with comments for appraisal to the District Auth. and for further course of action.
3	Regional Office, WBPCB	<ol style="list-style-type: none">i) Prepare monthly programme for inspection of pollution level of MAH Units and intimate the programme to the District Magistrate (as the Chairperson of the DDMA).ii) Submit pollution inspection report with comments for appraisal to the District Auth. and for further course of action.
4	The Local Panchayat / Municipal Auth.	<ol style="list-style-type: none">i) The concerned Local Body should keep a vigil over ROW of underground petroleum / gas pipeline so that any encroachment or illegal structure is not set in or locality is not extended on ROW. A proper coordination with Local Civil / Police Admn. / Concerned MAHs will be very much effective for the Local Body involved.

4.1: District Level Important Contacts for Coordination:-

Sl. No.	Important Contact	Mob. No.
1	District Magistrate, Paschim Bardhaman	9609960000
2	Commissioner of Police, ADPC	9874020008
3	ADM(DM & CD), Paschim Bardhaman	9922603444
4	CMOH, Paschim Bardhaman	9734237971
5	OC, DM & CD & Ex-Officio Dy. Secretary to the GOWB	8348488410
6	District Disaster Management Officer, Paschim Bardhaman	7719357637
7	Sr. Environmental Engineer, WBPCB, Asansol	9434044338
9	Insp. Of Factories, Asansol	7908171960
10	Div. Fire Officer, Bardhaman	9434250586
12	EOC / Civil Defence Control Room , Paschim Bardhaman	03412253650

4.2:Sub-Div Level Important Contacts for Coordination:-

4.2.1:Asansol Sub-Division:-

Sl. No.	Important Contact	Mob. No.
1	Sub-Divisional Magistrate, Asansol	9434008900
2	Sub-Div. Disaster Management Officer, Asansol	9073937776

4.2.2: Durgapur Sub-Division:-

Sl. No.	Important Contact	Mob. No.
1	Sub-Divisional Magistrate, Durgapur	9434050350
2	DCP(East), ADPC	9083268903
3	ACP(East), ADPC	9083268908
4	ACP(Kanksa), ADPC	9083268915
5	ACMOH, Durgapur	9732103596
5	Superintendent, SD Hospital	6294457616
6	Inspector of Factories, Durgapur	9433376469
7	Sub-Div. Disaster Management Officer, Durgapur	7477798119

4.3: Corporation Set-up

Sl. No.	Important Contact	Mob. No.
1	Commissioner, AMC	9083254849
2	Commissioner, DMC	6295894735
3	Secretary, DMC	7364052905

4.4: Block Set-up:

Sl. No.	Important Contact	Mob. No.
1	BDO, Andal	7719357630
2	BDO, Pandaveswar	8373079176
3	BDO, Durgapur-Faridpur	7908741561
4	BDO, Kanksa	9475628370
5	BDO, Salanpur	8170018242
6	BDO, Jamuria	8170018241

7	BDO, Baraboni	8170018239
8	BDO, Raniganj	8170018243

4.5: Contact of Corporate Sector:-

Sl. No.	Important Contact	Mob. No.
1	CEO, DSP & ISSCO	9434777701
2	CGM, DSP	9434791861
3	MD, DPL	9831054632
4	DGM (HR), NTPC-SAIL Power Supply Ltd. Durgapur	9650993457
5	Operations Manager (Pipeline Div.), IOCL, Rajbandh	9439873535
6	Chief Plant Manager, IOCL Bottling Plant, Durgapur	9474361948
7	GM, ECL, Jhanjra	9434796336
8	GM, ECL, Kajora	9434796707
9	Area Safety Officer, Kajora	9434796726
10	Area Safety Officer, ECL, Sonapur Bazari	9434796480
11	Head, Corporate Affairs, ESSAR	8348691433
12	Exe. Vice President, GEECL	9002787009
13	Head (HR), Philips Carbon Black Ltd. Durgapur	9332024829
14	Exe. Vice President, Graphite India Ltd., Durgapur	9332025308
15	Dir. SML Supershakti	9233302099
16	Factory Manager, Neo Metaliks Ltd.	8420009968
17	Manager, Shyam Steel Ltd.	8145285021
18	Manager, Jai Balaji Gr. Of Industries, Banskopa	7479002046
19	AGM (HR), SRMB SRIJAN	7001861361
20	Sr. Manager, Ultratech Ltd.	9669827964

H. Existing status of Relief godowns In Paschim Bardhaman District

Name of the District	Name of the Block/ Sub-Division	Name of the G.P.	Name of the Mouza	Latitude	Longitude	Year of Construction	Photographs
Paschim Bardhaman	S.D.O Asansol Sadar	—	Asansol Municipality	23° 68'6 91"N	86°94'834' E	2016-17	
	S.D.O Durgapur	—	Faridpur	23° 53'8 5" N	87°30'72"E	2017-18	
	Jamuraia	Bahadurpur	Bahadurpur	23° 40'2 6"N	87°08'24"E	2015-16	
	Raniganj	—	Searsole	23° 37'4 4"N	87°06'54"E	2015-16	

AAPDA MITRA 2022

National Disaster Management Authority (NDMA), Ministry of Home Affairs, Govt. of West Bengal has directed to select the Volunteers under **“Up-Scaling AAPDA MITRA Scheme”** maintaining the standard guideline of NDMA and in consultation with the members of District Level Selection Committee. Paschim Bardhaman District has started the training on and from 20.09.2022 and shall continue as per schedule mentioned here under. In this training programme, the specific chapters like fire safety, forest fire, chemical emergencies, radiological emergencies etc are to be covered:-

Training Schedule Details						
Training Batch No.	Total no. of volunteers to be trained	No. of female volunteers	Commencing Date	Completion date	No of days	Remarks
5	6	7	8	9	10	11
1	75	1	20-09-2022	01-10-2022	12	
2	50	0	12-10-2022	23-10-2022	12	
3	50	35	01-11-2022	12-11-2022	12	
4	50	15	14-11-2022	25-11-2022	12	
5	40	0	28-11-2022	09-12-2022	12	
6	35	10	12-12-2022	23-12-2022	12	
Total	300	61			72	



COVID-19

The department of Disaster Management, West Bengal has sanctioned a sum of Rs.50,000/- per head who have died of Covid-19 during the pandemic situation. The District of Paschim Bardhaman has sanctioned this grant to 1073 persons died of Covid under this District.

BLOCK /AMC/DMC	Total Received		Payment Done
	Offline	Online	
AMC	347	1	324
DMC	495	8	486
SALANPUR	70	0	65
BARABANI	19	1	19
JAMURIA	17	0	16
RANIGANJ	13	0	13
ANDAL	53	0	48
DURGAPUR FARIDPUR	28	0	25
PANDAVESHWAR	13	0	11
KANKSA	69	0	66
Total as on 22.09.2022	1124	10	1073
	1134		

Institutional arrangement for Disaster Management

District level Disaster Management Committee

SL	Name	Designation	Contact Num.
1	Sabhadhipati, Zilla Parishad, Paschim Bardhaman	Chairman	8695616470
2	District Magistrate, Paschim Bardhaman	Vice-Chairman	0341-2254545
3	Additional District Magistrate(G) Disaster Management Paschim Bardhaman	Member convener	7719357604
4	Additional District Magistrate(D)Zilla Parishad Paschim Bardhaman	Member	7719357603
5	Additional Deputy Commissioner of Police (H.Q)	Member	9083268901
6	C.M.O.H, Paschim Bardhaman	Member	8250999000/9434434045
7	Sub-Divisional Magistrate, Asansol	Member	9434008900
8	Sub-Divisional Magistrate, Durgapur	Member	9434050350
9	Deputy Director of Agriculture	Member	9547584444
10	Executive Engineer P.W.D (Roads)	Member	6295405096

11	Divisional Manager (CESE) WBSEDCL	Member	9433051903
12	Executive Engineer P.W.D (Electrical)	Member	9433469626
13	Deputy Director (ARD)	Member	9474550006
14	Executive Engineer P.H.E	Member	7044045601
15	G.M.D.I.C (MSME)	Member	9474110041
16	District Inspector of School (Secondary)	Member	9641242173
17	District Inspector of School (Primary)	Member	8250505524
18	Engineer Pollution Control Board, Asansol	Member	9434030006
19	Engineer Pollution Control Board, Durgapur	Member	9434044338
20	Divisional Engineer (BSNL)	Member	0341-2303303
21	District Fishery Officer, Paschim Bardhaman	Member	0341-2252958/9051465728
22	District Controller of F. S	Member	9434303928
23	District Planning Officer	Member	7719357611
24	District Informatic Officer (NIC)	Member	7679791412
25	Secretary Asansol Municipal Corporation	Member	8250140082
26	Commissioner Durgapur Municipal Corporation	Member	7407596555
27	Officer In-Charge Civil Defence & Disaster Management	Member	8348488410
28	District Disaster Management Officer	Member	7719357637
29	Officer In-Charge Fire	Member	9339775982
30	BDO Salanpur	Member	8170018242
31	BDO Jamuria	Member	8170018241
32	BDO Barabani	Member	8170018239
33	BDO Raniganj	Member	8170018243
34	BDO Kanksa	Member	7797659429
35	BDO Durgapur- Faridpur	Member	8145121000
36	BDO Andal	Member	9564074330
37	BDO Pandaveswar	Member	7719357629
38	S.D.D.M.O Durgapur	Member	9073937777
39	S.D.D.M.O Asansol Sadar	Member	7679256302

Block level Disaster Management Committee**A. Salanpur Block**

Sl. No	Name	Designation	Contact No
1	Block Development Officer	BDO	8170018242
2	Mukesh Bhagat	JT BDO-n Charge	9382886792
3	SHERYA NAG	JT BDO	7908089263
4		Sabhapati	
5		SAHAKARI SABHAPATI	
6	MUKESH BHAGAT	BDMO	8768807080
7	SUVASHIS MISRA	Insp. BCW	7407391628
8	SUVASHIS ROY	BIO	9832137608
9	DILIP DAS	SAE(BP)	9434238755
10	PUSHPA DAS	LGS	8617516538
11	Kalyan Bhattacharya	DSPS(Panchayat Samity)	9434238725
12	PRABIR MAJUMDAR	FEO	9874742753
13	Dr. Subrata Sit	BMOH	9547687716

❖ Block level Disaster Management Committee**A. Barabani Block****B. Barabani Block**

Sl.	Name	Designation	Address	Phone Number	
				Office	Residence
1.		Sabhapati			
2	Block Development Officer	Convener	Barabani Block	Domohani	7719357627
4.	UdaySankarBhattacharjee, B.L. & L.R.O. Barabani	Member	Barabani	Domohani	7003132931
5.	Sri Sukumar Sadhu	SahaSabhapati	Domohani	Barabani	9635886696
6.	Dr.N. Rahman, B.M.O.H., Kelejora B.P.H.C.	Member	Asansol	Kelejora B.P.H.C.	8250999038
7.	Officer-In-Charge, Barabani Police Station.	Member	Domohani.	Barabani P.S.	9083268938
8.	Assistant Engineer, W.B.S.E.DCL., Asansol.	Member	Asansol	Domohani	
9.	BSNL Barabani	Member	Domohani.	Domohani	
10.	AbanindranathHembram A.D.A., Barabani	Member	Domohani.	Domohani	9734399636

11.	Sub-Assistant Engineer, P.W.D., Asansol.	Member	Asansol	Asansol	9434251838
13.	Inspector F & S, Barabani	Member	Asansol	Domohani	
14.	Sub-Inspector of School. Barabani Circle, Barabani.	Member	Asansol	Domohani	

2. Block level Disaster Management Committee

C. Andal Block

1. Block level Disaster Management team

SL	Name	Designation	Contact No
1	Sudipta Biswas	B.D.O. Andal	7719357630
2	Bachaspati Mahato	JT. B.D.O.	6294283216
3	Sandip Kr. Pal	BDMO	9832272864
4	Subhas Pal	JE	9432431332
5	F.E.O	F.E.O	9331668576
6	Pulak Bakshi	PAAO	9733444295
7	MD. Ershad Ali	PDO	8337000066
8	Kuntal Banerjee	C.I.	8637057758
9	Sabyasachi Ganguly	APO	9836702223
10	Sourav	BIO	9547984059
11	Liltu Ghosh	JE	7908725137
12	Sujata Ghosh	I.D.O.	9474039906
13	Dipankar Bepari	EOME	9679498605
14	Parimal Mitra	Insp. BCW	8250736096
15	Amit Das	AHC	9476490256
16	Prasanta majumdar	U.D.A(P.S)	9732192701
17	Ajoy Kr. Chatterjee	U.D.A.(R)	7583951954
18	Mohan Tudu	Cashier(P.S)	9933047365
19	Manas Ghatat	LDC(BP)	9475316945
20	Aloke Das Bairagya	L.D.C.	9933677247
21	Achin Bhattacharjee	T.A.(NREGS)	9434591087
22	Ayan Goswami	T.A.(NREGS)	8642904337
23	Some Nath Das	Group D	9734120617
24	Tarun Mallick	Sup. MDM	9474540764
25	Prem Das Khan	DEO, MDM	875907217

1. Line Department level Disaster Management officials

SL	Name	Designation	Contact No
1.	Santanu Adhikary	OC Andal Police Station	9674743290
2	Ansuman Ghosh	ADA, Andal	8637016581
3	Dr. P. Soren	Ukhra Khadra Health Center	9679993914
4.	Biswajit Mal	Range officer, Ukhra Range office (Forest)	9475958756
5.	Subrata Roy	AE, PHE	8918761254
6.	Sukanta Roy	BLDO, Andal	9433267217
7.	Susanta Sardar	SI of School, Andal	9593141797

Block level Disaster Management Committee

D. Durgapur-Faridpur

SL	Name	Designation	Contact Num.
1	Block Development Officer	B.D.O. Durgapur-Faridpur.	8145121000
2	Subhrangshu Chowdhury	B.D.M.O	8388026440
3	Rajib Bhattacharyay	Police Station DF	9147889408
4	Arindom Mandal	Newtownship Police Station	9147889406
5	Dr. Prabir Kumar Bauri	BMOH, Laudoha	8285099028
6	Abhijit Chowdhuri	Agriculture Officer	7908060640
7	Sandip Patra	Food Officer	8250385835
8	Biplab Roy	BLDO	9475236976
9	Sudhanshu Sekhar Chakraborty	SI of School	9564673651
10	Ramesh Kumar Sah	WBSEDCL	9474584483
11	Shyamal Patra	PHE	8670104727
12	SK Saha	ECL Bankola	9434795533

Block level Disaster Management Committee

E. Pandaveswar

Sl. No.	Name	Designation	Address	Phone No
1		Savapati, Pandaveswar Panchayat Samity & Chairman BDMC	Pandaveswar Panchayat Samity	
2	Block Development Officer	Block Development Officer, Pandaveswar & Vice Chairman, BDMC	Pandaveswar Development Block	7719357629
3	Kiriti Mukherjee	Representative of MLA	Vill- Haripur	9547973527
4		Member of Paschim Bardhaman Zilla Paishad		
5	Sandip Mujumder	Jt. B.D.O	Pandaveswar Block	9474487743
6		Pandaveswar PS Karmadyaksha, Tran-o-Janakalyan Sthayee Samitee		
7	Officer-in-Charge	O/C Pandaveswar Police Station	Pandaveswar	9083268944
8	Subrata Roy	Head Master Of Bahula S.S High School	Bahula	9679178304
9	Tapan Kumar Mondal	Teacher in Charge Jaypuria High School.	Kendra G.P.	9734790629
10	Ajit Mondal	Head Teacher. Ramnagar F.P. School.	Ramnagar	8768145154
11	Kaji Babu	Head Teacher Baidyanathpur High School	Baidyaanathpur	9064188133
12	Amlan Chattopadhyay	Block Disaster Management Officer (BDMO), Pandaveswar Block.	Pandaveswar Block	9732141161
13	Dr Nilay Kr Saha	Member, Medical Officer	Pandaveswar	9232696908
14	Abir lal Goswami	Assistant Director of Agriculture	Addl. Charge of Pandaveswar B.D.O Office	8240689847
15	Dr.Sanjib Das	Block Livelistock Development Officer	Pandaveswar Block	9641755055

2. Block level Disaster Management Committee

F. Jamuria

SL	Name	Designation	Status	Contact No.
1	Block Development Officer	B.D.O. Jamuria		8170018241
2		Sabhapati, Jamuria P.S.		
3	Biman Kar	Jt. B.D.O. Jamuria		7872382605
4		SahakariSabhapati, Jamuria P.S.		
5	Asim Mondal	BDMO		
6		ZP Member		
7	Sanjay Karfa	BWO, Jamuria		7047469024
8	Morsalin Mondal	PA & AO, Jamuria		8116762444
9		UDA, Relief		9093744870
10	Bipadtaran Mondal	J.A. Bahadurpur GP		9734787182
11	Adhir Kr. Ghosh	E.A. Chinchuria GP		9641569592
12	TaraknathMondal	E.A. Kenda GP		9475029073
13	Sukla Roy	E.A. Shyemlla GP		9333686466
14	Krishna KantiSinha	E.A. Topsis GP		9832242149
15	UttamKarmakar	E.A. Hijolgara GP		9378244560
16	MahabirprasadKharwa	E.A. Madantore GP		9064467838
17	TanmoyGayen	E.A. Parasia GP		7699395370
18	SuklalKishku	E.A. Dobrana GP		9474377779
19	MD. JamilAhamad	E.A. Churulia GP		9333152923

Block level Disaster Management Committee**G- Kanksa**

Sl NO.	Name	Designation	Contact No.
1	PARNA DEY	BLOCK DEVELOPMENT OFFICER, KANKSA	8017648278
2	SUBHANKAR SINHA	Jt. BDO, KANKSA	8016992916
3	SANJIB BHATTACHARJEE	BIO, KANKSA	8597791688
4	DEBDURLAV GHOSAL	BWO,KANKSA (BDMO-In-Charge)	9933999168
5	ARUP KR. RAY	PA&AO, KANKSA	7318993802
6	SHOUMIK SARKAR	IDO, KANKSA	9547912086
7	DIPA PAL	FEO, KANKSA	9749288136
8	SUSNATO ROY	CI, KANKSA	9476425117
9	SAIKAT DUTTA	IMW, KANKSA	8514067717
10	NANDA KR. SANTRA	AHC, KANKSA	7001429943
11	ARINDAM MUKHERJEE	Jr. ENGINEER, DRIDD	8918259448
12	SANJAY ANKULI	BLDO, KANKSA	7908240612
13	BIPLAB MONDAL	BMOH, KANKSA	8250999026
14	NUPUR BISWAS	CDPO, KANKSA	8777645071
15	SUDIP SARKAR	S.I, CIRCLE-I,KANKSA	9433362416
16	SANDEEP KR. PATRA	Inspecootr of Food&Supply, KANKSA	8250385835
17	JAYANTA HAZRA	AO,KANKSA	9647540512
18	MANAS KUNDU	OCM, KANKSA	9134084121
19	MANAS DEY	OCM, KANKSA	9332113716
20	JALADHAR RUIDAS	OCM, KANKSA	7602117498
21	DURGADAS MUKHERJEE	OFFICE PEON, KANKSA	9474114293
22	KESHAB CHANDRA BADYAKAR	NIGHT GUARDMKANKSA	8514837622
23	GADADHAR KUSHMETE	FA,KANKSA	9547535948
24	DINABANDHU LAHA	CONTRACTUAL STAFF,KANKSA	9474600736
25		PRADHAN, MOLANDIGHI G.P	
26		PRADHAN, TRILOKCHANDRAPUR G.P	
27	TUSHAR MUKHERJEE	GP STAFF, MOLANDIGHI G.P	8016816816
28	PRADIP MANDAL	GP STAFF, TRILOKCHANDRAPUR G.P	9474882033

❖ Block level Disaster Management Committee
H-Raniganj

Sl..	Name	Designation	Phone Number
1.	Sabhapati, Panchayat Samity	Chairman	
2.	Block Development Officer	Vice-Chairman Member Convenor	8170018243
3.	Sri Apurba Karmakar, Joint B.D.O	Member	7365047561
4.	Ajoy Khan, EOMEE, B.D.M.O-in-Charge.	Member	9476239004
5.		Member	9641756717
6.	P.S. Member	Member	9563993427
7.	P.S. Member	Member	9474909283
8.	P.S. Member	Member	9126961003
9.	MLA Asansol Dakshin	Member	9434008056
10.	Karmadhyakshya, S.N.J o Tran	Member	8536845176
11.	B.M.O.H, Raniganj	Member	9735327409
12.	Asstt. Director of Agriculture, Raniganj	Member	9064070592
13.	BLDO, Raniganj	Member	9733443939
14.	Biswajit Tewari	Member	9851250501
15.	Officer in Charge, Fire Service Raniganj	Member	0341-244-5104
16.	Station Superintendent, WBSEB, Raniganj	Member	0341-244-4569 7449303256
17.	Officer in Charge, Raniganj P.S.	Member	03412444230
18.	S.I. of Schools Raniganj,	Member	8927390487
19.	BL & LRO, Raniganj	Member	9732113989
20.	Prasenjit Bala	Member	9609266611
21	Bhaskar Bandopadhyay	Member	9475482436

❖ **IMPORTANT CONTACT NO OF ASANSOL MUNICIPAL CORPORATION**

SL NO	NAME	CONTACT NO
1	MAYOR OF ASANSOL MUNICIPAL CORPORATION	0341-2302370/9800013770
2	CHAIRMAN ASANSOL MUNICIPAL CORPORATION	0341-2309225/7602922405
3	COMMISSIONER OF ASANSOL MUNICIPAL CORPORATION	0341-2302491/9732000700
4	SECRETARY, ASANSOL MUNICIPAL CORPORATION	7719357633/8250140082

❖ **IMPORTANT CONTACT NO OF DURGAPUR MUNICIPAL CORPORATION**

SL NO	NAME	CONTACT NO
1	Board of Administator	9932623052
2	Commissioner-D.M.C	0343-2546107/7407596555
3	Chairman- D.M.C	0343-2546107/9932623052

Incident Response Team for District:

SI.	IRS Designated Post	Suggested Position / Rank	Phone Number
1	Incident Commander (IC)	District Magistrate, Paschim Bardhaman	0341-2254545
2	Dy. Incident Commander	Additional District Magistrate (G),	0341-2250066
3	Safety Officer	CMOH	8250999010
4	Liaison Officer	DPLO	7719357611
5	Information Officer	DICO	7679791412
Operations Section			
Chief :Additional District Magistrate (Disaster Management) :			7719357604
	SEARCH AND RESCUE BRANCH	Fire-dlv. Officer, Fire	0342-2657901
		Station Officer O/C Asansol Fire -	8250244655
		DC, NDRF-	-
		CD-ADC-	-
		O/C Civil Defence & Disaster Management	8348488410
		Home Guard Addl.SP	
	Law & Order	Ananda Das, IPS, ADCP, Traffic, Kuldip Sarwani ADPC & Additional Charge of ADCP, Central A.D.P.C	9147889372 9147889371
	Health-	Dy. CMOH II – (Public Health)	8250999012
	Agriculture:	Deputy Director of Agricultural	9547584444
	Roads; Superintendent Engineer or Exe. Engineer-	PWD Civil	9474143891
		PWD Electrical-	9433469626
		PWD Roads	9735035526
	Electric: Divisional Manager, CESC-	WBSCDCL	
		Asansol	8900797220
		Durgapur	8900797250
	TRANSPORT BRANCH,	RTO-	7719357619
	Animal Resource Department	Dy-Director ARD -	9474484590
	Water Supply	EE-PHE-	7044045601
	MSME:	GM DIC-	9474110041
	Education:	DI- Primary -	8250505524
		DI-Secondary	9641242173
	Telephone: Divisional	Engineer, BSNL-	0341-2251661

Logistic Section			
Chief :Additional District Magistrate (SHG & SE) : 7719357605			
	SERVICE BRANCH	P.D DRDC-	8001593893
	COMIUNICATION UNIT	DDMO-	7719357637
		DIO NIC-	7679791412
	MEDICAL UNIT	DY. CMOH II (PUBLIC HEALTH) -	8250999012
	FOOD UNIT	DC & FS -	9475106207
	SUPPORT BRANCH	SDO Asansol Sadar-	7719357621/9434008900
	RESOURCE PROVISIONING UNIT	EE PWD-	9735035526
	FACILITIES UNIT	Secretary(ZP) -	77193576341
	GROUND SUPPORT UNIT	EE PHE-	7044045601
Finance & Administration Section			
CHIEF: Additional District Magistrate (G): 7719357604			
	FINAMCE BRANCH	DY Magistrate SECRETARY Zilla Parishad	8972551212
	TIME UNIT	District Engineer(ZP)-	9475977699
	COMPENSATION UNIT		
		Treasury Officer-	7501472744/7551050698
	PROCUREMENT UNIT	NDC-	7719357623
	COST UNIT	ATO-	7044569536
		DDMO-	7719357637
	Fishery:	DFO-	8348220911
PLANNING SECTION			
Chief :Additional District Magistrate (Development) : 7719357603			
	SITUATION UNIT	Secretary Zilla Parishad	7719357634/9800695373
		DDMO-	7719357637
		DSP HQ –	-
	RESOURCE UNIT	Dist Planning officer-	7719357611
		DDMO-	7719357637
	DOCUMANTATION UNIT	DIO-NIC-	7679791412
		ADIO-	8345992298
		DDMO	7719357637

Accommodation (Guest House, Rest house) for NDRF/SDRF personnel required during any Natural Disaster operation.

SL	Name of the House	Under The Sub-Division	Run by
1	Circuit House, Asansol	Asansol	District Magistrate Paschim Bardhaman
2	Zilla Parishad Guest House, Bardhaman Bhavan	Asansol	Zilla Parishad Paschim Bardhaman
3	ADDA Guest House	Asansol	ADDA
4	E.C.L Guest House	Asansol	E.C.L
5	Darbardanga Guest House Jamuria PHE	Asansol	P.H.E
6	Durgapur Guest House	Durgapur	D.P.L
7	Durgapur House	Durgapur	D.S.P
8	Youth Hostel	Durgapur	D.M (NDC)
9	PHE Inspection Bhavan Kalyaneswari	Asansol	P.H.E

N.B: Besides the aforesaid Guest House, every Panchayat Samity has their own Community Hall which will be used as temporary residing place for conducting any Disaster Management Operation, if needed.

Chapter 4

Prevention and mitigation Measures

District level Disaster Management meeting with Sub-Divisional Officers, Block Development Officers and Line Departmental officer is to be held regularly. As per discussion with them the following problems and mitigation plan has been activated.

	Steps taken for Prevention and mitigation
Health	<ul style="list-style-type: none"> • Storing of Medicines and equipments in flood prone areas. • Stocking of essential medicines in vulnerable areas of the districts • Health emergency plans and requirement of ORS bleaching powder and anti-venom of snake bites.. <ul style="list-style-type: none"> • Setting up of temporary hospital in case of necessity. • Sanitation of the affected areas and of the relief centers. <ul style="list-style-type: none"> • Inoculation, Vaccination and Health care
PWD	<ul style="list-style-type: none"> • Protective measures for maintenance of road communication bridges, culverts etc. to facilitate transport of vehicles and particularly of food grains and relief materials, provision for railway bridges. • Arrangements including stock of materials for necessary repairs on emergency basis when and where necessary.
PHE	<ul style="list-style-type: none"> • Supply of Drinking water, where necessary. • Sinking/re-sinking of tube wells in high land/rescue centers, on emergency basis. • Arrangements including stock of materials for emergency supply of water. Installation of special pumping stations to combat flood situations.
ARD	<ul style="list-style-type: none"> • Storage of fodder and other cattle food and preventive measures for cattle health. <ul style="list-style-type: none"> • Supply of fodder in times of need. • Development of veterinary personnel where necessary.

Agriculture	<ul style="list-style-type: none"> • Storing of seedlings, seeds minikits, fertilizers, insecticides implements and other agricultural inputs for making them readily available to the affected cultivators under loan/grant raising alternative corps. • Raising of seed beds and to keep them in stock to the places prone to disasters. <ul style="list-style-type: none"> • Introduction of new seeds storage bank scheme. • Drawing up of a contingency action plan for the purpose.
Education	<ul style="list-style-type: none"> • Providing emergency shelter in Educational Institutions.
WBSEDCL	<ul style="list-style-type: none"> • Restoring the overhead lines and towers on emergency basis for smooth power supply during flood and cyclone. • Maintenance of steady supply of electricity in the affected areas and in lives of the people of the affected area from electrocution. <ul style="list-style-type: none"> • Mass awareness for not touching the snapped electric wires. <ul style="list-style-type: none"> • Stock of materials for emergency.
Food & Supplies	<ul style="list-style-type: none"> • Building of flood reserve of food grains and other essential commodities in advance in the M.R. shops rice mills, chira mills, baby food wholesalers. <ul style="list-style-type: none"> • Storage of K.Oil during flood season. • Supply of food grains and other essential commodities in actual time of need.

Chapter 5
Preparedness measures

In Paschim Bardhaman district is not flood prone area but it is a vulnerable area in respect of a good number of industries like IISCO, DSP, IOC sponge iron and other allied industries as well as various abounded coal mines like ECL are situated here as a result Various type of hazards and incident mostly drowning are occurred time to time.

The Disaster Management and Civil Defence section of this district taking steps of preparedness measures to overcome the problems. Whenever this office received any message related to weather bulletin or any red alert message this office forwarded the message to the SDOs, Secretary Municipal corporations and BDOs for taking necessary step to alert the stake holder through E-mail or Telephone.

It is also stated that this District has a existing civil defence section for a long time, number of civil defence volunteers and QRT members are provided their services time to time during natural calamity like cyclone, flood etc.

When the department of disaster management issued a letter for formation of EOC in every district. This district headquarter had starting emergency operation centre running in 24X7X365 16 June 2018 with a existing strength of Civil Defence staff and Civil Defence volunteers those who are trained as a QRT (Quick Response Training) in the EOC 02 (Two) Men are always present in every shift. The EOC has received the message from every corner take action if possible or transmit the message to respective corner for further course of action. The existing 02 (Two) vehicles, 01 (One) civil defence Van and another Ambulance vehicle with driver and khalasi are always ready to provide their service as well as 01 (One) speed boat is received this section from the Department and Divers training is already made to meet up the drowning cases. Sr. staff officer civil defence is also look after the EOC matter time to time for betterment of EOC on District level.

The EOC control room number 0341-2253650 as name of volunteers those are engaged in EOC and QRT are mentioned below:-

Civil Defence Volunteer Engaged as Emergency Operation Centre		
SL	Name	Contact Number
1	Chandu Prasad Nonia	9635629390
2	Tukai Tantubay	8436292449
3	Sandip Bauri	6294182950
4	Dipak Kumar Rauth	8918807849
5	Chintu Dutta	9547743867
6	SK. Nausad	9064029177

Quick Response Team:- There are nine QRT members in our EOC. Whenever required they start making to spot wherever incident occur.

Civil Defence Volunteer Engaged as Quick Response Team		
SL	Name	Contact Number
1	Suman Mishra	8918957744
2	Kalyan Chatterjee	8617029768
3	Niraj Kumar Singh	7031533675
4	Anjeet Patel	9563030263
5	Monoranjan Bauri	9735592453
6	Sumonta Bauri	9563649049
7	Parvez Akhtar	8967800894
8	Raju Dey	8926019595

Duburi / Deep Diver Trained Volunteers		
SL	Name	Contact Number
1	Mithun Dhibar	9002376231
2	Krishna Badyakar	6294308302
3	Mahadeb Bauri	8348926312
4	Jayanta Bauri	8535905238
5	Susanta Kumar Dey	8641040467
6	Sourav Khan	9547216247
7	Baban Bagdi	9382609286
8	Saurav Ganguli	9932188017
9	Sauvik Mukherjee	9775788386
10	Biswajit Ruidas	7063810289
11	Srikanta Dalal	9563750996
12	Chandranath Bhattacharjee	8759790459
13	Azad Singh	8101392945
14	Bikram Patra	8293045286
15	Samir Roy	9851047734

SOP for Railway Accident

It has to be noticed that normally the following classes of Train Accident will be made in Indian Railways like collision, Derailment, Fire in Train and level crossing resulting loss of human life and damage of properties etc.

The Indian railways are fully geared to undertake the work of rescue and relief of passengers and restoration of traffic in the event of an unfortunate accident to a passenger train. But the railways action or services are not sufficient to meet up the problems. As a result they required various types of assistance from the civil administration. After receiving the information from the railway concerned this section convey the message to the member of Incident Response Team (operation Section).

1. **Police Concerned:** - To depute the police force to ease rescue work and to avoid chaos at accident site maintain Law & Order duty.
2. **Chief Medical officer of Health:** - Request to provide medical assistance like Ambulance Services to sent injured persons to nearby Hospital /nursing home.
3. **O/C Fire Bridge:** - In case of Fire in Train they provided there services for extinguishing the fire and save the Human life and Properties.
4. **Civil Defence:-** The Civil Defence QRT members attended the accident site with their equipments for rescue the victims.
5. **SDRF Force:-** Also inform the SDRF Force for search & Rescue Operation.
6. **P.H.E:-** They provide sufficient drinking water for the victims.
7. **Civil Administrative Officer:-** Taking action and to expedite clearance certificate in the event of a rail accident, so that normal traffic can be restored without avoidable delay. They also perform the duty of identification of next of kin of railway victims with the help of railway department.

Emergency Telephone numbers of Railway are mentioned below to overcome the railway accident smoothly

Security Control RPF Asansol	0341-2304646
Deputy Controller (Coaching)	9002073232

SL	Designation of Officer	Cell phone no
1	DRM	9002023000
2	ADRM	9002023001
3	Sr DSO	9002023990
4	CMS	9002023500
5	Sr DSC	9002023700
6	Sr DOM	9002023900
7	Sr DPO	9002023600
8	Sr DSTE	9002023800
9	Sr DEN-cord	9002023200
10	Sr DEE/OP	9002023302
11	Sr DEE/TRD	9002023301
12	Sr DEE/G	9002023303
13	Sr DME	9002023400
14	PRO	9002023961

Important Contact Number of Asansol DRM Office

Name & Designation	Phone Number
Binoy Kumar Traffic Inspector (Safety)	9002028938
Arijit Nandi SSE C & W	9002023994

The role of the member of Incident Response Team (Operation) in District Level is so vital as the entire Administrative Officer as well as Officer of the Line Department has been tagged in this team as a result their ample assistance to survive any type of accident or Disaster in the District Level.

Chapter 6
Capacity building and training measures

SL	Tentative month of Training	Type of Training	Estimate of the training cost
1	April, May & June	Mock Drill, Awareness, Fire Fighting, School Safety	@ Two training per Block, Corporation total 20 no. of training will be required. Tentative estimate (Rs. 10,000 X 20) = Rs. 2,00,000/-
2	October, November & December	Chemical Hazard, Drowning, Mock Drill, Awareness	@ Two training per Block, Corporation total 20 no. of training will be required. Tentative estimate (Rs. 15,000 X 20) = Rs. 3,00,000/-

Chapter 7
Response and relief measures

Relief Operation - Response					
SI	Departments	Preparedness	Pre (after warning)	During Disaster	Post Disaster
1	District Administration	Considering the gravity situation the Collector shall convene the district level natural calamity meeting when ever required.	Meeting with district level officials at head quarter and chock out emergency plan with vulnerable areas and resource list/ arrange food and other basic requirement for emergency response/collect information from different areas and to act accordingly	Regular collection of situation report of the risk and vulnerable areas from the officers assign for the purpose /provision for administering emergent relief and the other basic needs.	Helping the evacuees for returning to their houses Immediate arrangement of free kitchen in the cut off and inaccessible areas/Repair/Restoration of roads/monitoring of relief distribution/provision of drinking water.
2	Block Administration	Control room always alert and staff available for natural calamities	Control room always alert and staff available for natural calamities	Relief operation smoothly as per or effected area for natural calamities.	Relief operation smoothly as per or effected area for natural calamities.
3	CMOH	Stock Position of life saving drugs, ORS, IV fluids and other equipment. Distribution of ORS Halogen to field areas. Awareness through propagation of healthy practices during the disaster time.	Sufficient stock to be procured and distributed Making, Drum beating etc. Control rooms CMOH office, Paschim Bardhaman DDMO/SDDMO.	Sufficient stock to be procured and distributed Making, Drum beating etc. Control rooms CMOH office, Paschim Bardhaman SDMO/BMOH	Sufficient stock to be procured and distributed/Dist RRT and Sub-Divisional RRT is formed /miking drum beating etc./preventive measures to be done/Coordinating with other department to be done.
4	PWD	Communication establishment with district and block control rooms and departmental offices within the division.	Always alert and staff available for natural calamities/All staff informed about the disasters, likely damages and effects.	Inspection and emergency repair for roads/road bridges /underwater inspection /piers/concrete and steel work.	Community assistance mobilized for road clearing/Clearance for blocked roads/route strategy for evacuation and relief marked.
5	PHE	Sanitation and water supply available in the all vulnerable block areas. Deep tube well/Shallow tube well/Katcha well and RCC well.	Sanitation and water supply available in the all block areas. Namely mark deep tube well/ shallow tube well / Katcha well and RCC well.	Sanitation and water supply available in the all vulnerable block areas. Deep tube well/Shallow tube well/Katcha well and RCC well.	Available

N.B- A list of Civil Volunteers and evacuation plan of each block is kept at their own custody.

Chapter 8

Reconstruction, Rehabilitation and Recovery Measures:

During the post disaster period measures for reconstruction of damaged structures, rehabilitation of the affected people and restoration of normal services are essential. At the time of during disaster the people of water logged area or rehabilitate to their nearest rescue shelter and necessary dry food, drinking water along with medical facilities will be given to them by the local authorization reports are collected from line department regarding the damage public structure and these reports are sent to the disaster management and civil defence for taking necessary action.

House building grant are also provided to the persons whose houses are damaged in disaster for constructing/repairing of their houses. Necessary medical help and counseling is also given to them for restarting of normal service.

Chapter 9

Financial resources for implementation of DDMP

State budget, Mitigation budget, Risk insurance
Considering the gravity of damage due to natural calamity necessary information will be sent to department.

Chapter 10

Procedure and mythology for monitoring evacuation updation and maintenance of DDMP :

Meeting in regular interval is held. As per discussion in the meeting about the weak point of different Department necessary steps are taken. If any change is required in Disaster Management Plan is to be incorporated in the Plan.

Chapter 11
Different contact numbers

❖ IMPORTANT CONTACT NUMBERS OF POLICE STATIONS UNDER A.D.P.C

P.S Under A.D.P.C	Out Post /PP/Top of A.D.P.C	Phone Number
Asansol South		0341-2302225
	South P.P	0341-2254430
Asansol North		0341-2270149
	Jahangir Mohalla Top	0341-2271746
	Kannapur I/C	0341-2253323
Raniganj		0341-2444230
	Panjabi More	0341-2449175
	Ballavpur O.P	0341-2444297
	Nimcha I/C	0341-3203351
Jamuria P.S		0341-2455440
	Sripur I/C	0341-6950952
	Kenda P.P	0341-2667432
	Churulia I/C	8016405885
Durgapur		0343-2564081
	A Zone Top	0343-2570924
	B Zone I/C	0343-2564082
	City Centre I/C	0343-2543587
	Faridpur I/C	0340-2545085
	Waria I/C	0343-2583779
	DTPS I/C	0343-2590315
New Township		0343-2502242
	Bidhannagar OP	0343-2537053
Coke Oven		0343-2555060
Andal		0341-2373378
	Ukhra O.P	9679982060
	Banbohal O.P	0341-2667234
Faridpur		0341-2670866
Pandaveswar		0341-2677336
Kulti		0341-2515555
	Neamatpur I/C	0341-2510533
	Barakar P.P	0341-2520166
	Sanctoriya I/C	8116604630
	Chowrangi O.P	9775040050
Barabani		0341-2772268
Salanpur		0341-2015200
	Rupnarayanpur I/C	0341-2531260
	Kalyaneswari I/C	0341-2014085
Chittaranjan		0341-2525368
Hirapur		0341-2231547
Asansol Woman P.S		0341-2255646
Durgapur Woman P.S		0343-2606667
Kanksa P.S		0343-2524244

Chapter 12
Standard operating procedure and checklist

<p style="text-align: center;">SEARCH & RESCUE</p>	<p>Search and Rescue operations are one of the primary activities taken up in a post disaster situation. The promptness in these operations can make a remarkable difference in the amount of loss of life and property and will include removal of trapped and injured persons from buildings collapses and other structural collapses, administering first aid, and assisting in transporting the seriously injured to medical facilities. This activity involves the use of professional and volunteer search teams including the use of dog teams.</p>
<p style="text-align: center;">EVACUATION</p>	<p>The ESF on evacuation is primarily responsible for establishing evacuation plans, identification of fastest evacuation routes and alternate routes and coordinating evacuation logistics during field operations.</p>
<p style="text-align: center;">EMERGENCY MEDICAL SERVICES AND PUBLIC HEALTH</p>	<p>The ESF on Emergency Medical Services and Public Health Counseling will look after emergency treatment for the injured people immediately after the disaster take place.</p>
<p style="text-align: center;">DEBRIS CLEARANCE & EQUIPMENT SUPPORT</p>	<p>The importance of this ESF emanates from the fact that most large-scale disasters such as earthquakes, cyclones, floods primarily affect the building structures. The ESF would involve in identification, removal, and disposal of rubble, wreckage, and other material which block or hamper the performance of emergency response functions and procure needed equipments from support agencies using IDRN; is a high priority action.</p>
<p style="text-align: center;">PUBLIC WORKS AND ENGINEERING</p>	<p>The ESF would include the identification of critical infrastructure problems, shortcomings and damages, and the mobilization and coordination of Quick Response Teams (QRTs) to fix and improve them.</p>
<p style="text-align: center;">UTILITIES RESTORATION</p>	<p>There may be a need of supplying water for firefighting operation. There may be a need for drinking purpose. Rehabilitation site might be requiring temporary/mobile toilets. There may be need to ensure clean environment.</p>

Chapter-13

❖ Data Regarding Line Department Officers Health Department

In Paschim Bardhaman district there are –

1. District Hospital-1(Asansol District Hospital) – 750 bedded hospital
2. Sub-divisional Hospital, Durgapur – One – 338 bedded hospital
3. Rural Hospital – 1 (Ballavpur RH) – 50 bedded hospital
4. BPHC – 8 (Salanpur, Barabani, Akalpur, Bahadurpur, Raniganj, Durgapur-Faridpur, Khandra-Ukhra & Panagarh) – 30-50 bedded hospital

Control Room –

The office of the Superintendent should act as the control and should have good communication

Important contact number

Name	Designation	Contact Number
Dr. Sekh Mahammad Yunus	CMOH	7980949452
Dr. Saikat Pradhan	Dy. CMOH-II	9732531130
Dr. Nikhil Chandra Das	Superintendent Asansol District Hospital	9475379132
Dr. Dhiman Mondal	Superintendent Durgapur Sub-Division Hospital	8145869243 / 9531639434

- **List of Doctors along with their contact Numbers in BPHC(S)**

PITHAIKEARY BPHC

Sl. No.	Designation at BPHC	Name		Contact Number
1	BMOH	Dr Subrata Sit	Incident Commander, Chief of Planning/Logistics, PRO	9547687716
2	2 nd MO	Dr Sujay Kumar	Chief of all Operations & in-charge of all Medical Teams	9933736657
3	AMO	Dr Amaresh Maji	Triage & First Aid team	9564884122
4	Ayur MO	Dr Ujjwal Mondal	Triage & First Aid team	9732025473
5	MO of Dabor PHC	Dr Koushik Rana	Triage & First Aid team	9851083825

LAODOHA BPHC

Sl. No.	Designation at BPHC	Name		Contact Number
1	BMOH	Dr Prabir Kr. Bauri	Incident Commander, Chief of Planning/Logistics, PRO	8285099028
2	2 nd MO	MO	Chief of all Operations & in-charge of all Medical Teams	9433753181
3	3 rd MO		Triage & First Aid team	
4	4 th MO		Triage & First Aid team	

KANKSA BPHC

Sl. No.	Designation at BPHC	Name		Contact Number
1	BMOH	DR. Biplab Mondal	Incident Commander, Chief of Planning/Logistics, PRO	8250999026
2	2 nd MO	MO	Chief of all Operations & in-charge of all Medical Teams	7001382534
3	3 rd MO	MO	Triage & First Aid team	7059252563
4	4 th MO	MO	Triage & First Aid team	8637390476

KHANDRA BPHC

Sl. No.	Designation at BPHC	Name		Contact Number
1	BMOH	DR PARITOSH SAREN	Incident Commander, Chief of Planning/Logistics, PRO	9434211548
2	2 nd MO	DR I K BANERJEE	Chief of all Operations & in-charge of all Medical Teams	8145302115
3	3 rd MO	DR PIJUSH KANTI MONDAL	Triage & First Aid team	9434238609
4	4 th MO	DR N K SAHA	Triage & First Aid team	9232696808

AKALPUR BPHC

Sl. No.	Designation at BPHC	Name		Contact Number
1	BMOH	DR. ABINASH BESRA	Incident Commander, Chief of Planning/Logistics, PRO	9732040486
2	2 nd MO	NO POSTED	Chief of all Operations & in-charge of all Medical Teams	
3	3 rd MO	DR. ABHIJIT MONDAL	Triage & First Aid team	9476237383
4	4 th MO	MD DANIS	Triage & First Aid team	

BARABANI BPHC

Sl. No.	Designation at BPHC	Name		Contact Number
1	BMOH	Dr. N. Rahman	Incident Commander, Chief of Planning/Logistics, PRO	8250999038
2	2 nd MO	MO	Chief of all Operations & in-charge of all Medical Teams	7501481411
3	3 rd MO		Triage & First Aid team	
4	4 th MO		Triage & First Aid team	

ASANSOL DH

Sl. No.	Designation	Name	Role during Disaster Management	Contact Number
1	Superintendent	Dr. Nikhil Chandra Das	Incident Commander, Chief of Planning/Logistics, PRO	9475379132
	I/C, General Surgery	Dr. Prasenjit Roy	Chief of all Operations & in-charge of all Medical Teams	7001416283
2	I/C, Orthopedics	Dr. Nirjhar Maji		9434014035
3	I/C, Emergency Service	Dr. Samiran Maji		9732034401
4	I/C, Medicine	Dr. Nilanjan Chatterje		9434247172
5	I/C, Paediatrics	Dr. Swagata Chakraborty		9647387290
5	I/C, Gynaecology	Dr. Asim Ghosh		9475026214
5	I/C, Anaesthesia	Dr. Biraj Mondal		9831179860
6	I/C, Radiology	Dr. Tanumay Kabiraj		9836030289
7	I/C, Blood Bank	Dr. Sanjit Chatterjee		9474347380
8	I/C, Pathology	Dr. Rupak Chatterjee		9830530720
9	MO, Medico-Legal	Dr. Srikanta Gangopadhyay		9476139604

DURGAPUR SDH

Sl. No.	Designation	Name	Role during Disaster Management	Contact Number
1	Superintendent	Dr. Debabrata Das	Incident Commander, Chief of Planning/Logistics, PRO	7479012760
	I/C, General Surgery	Dr. T.S. Ghosh	Chief of all Operations & in-charge of all Medical Teams	7479012775
2	I/C, Orthopedics	Dr. Tusar Kumar Acherjee		7479012836
3	I/C, Emergency Service	Dr. D.K. Mondal		9475235068
4	I/C, Medicine	Dr. D.P. Ghatak		9434332681
5	I/C, Paediatrics	Dr. K. Bhattcharjee		9433234888
5	I/C, Gynaecology	Dr. R.P. Das		7479012834
5	I/C, Anaesthesia	Dr. Tapasi Dutta		9434500545
6	I/C, Radiology	Dr. Arbind Kumar Sau		9800698199
7	I/C, Blood Bank	Dr. Karabi Kundu		7908460360
8	I/C, Pathology	Dr. Abhijit Banerjee		7479012769
9	MO, Medico-Legal	Dr. Indrajit Majhi		7872089443

No. of Agricultural Blocks: 12

Cultivable Area (in ha): 75390

Soil Type: Soil in the district - (i) Lateritic & Gravelly Soil - It is found in the Western part of the district starting from Kanksa onwards which is highly porous poor in organic matter content and acidic in nature.

The district comprises of the Agricultural Subdivisions namely Durgapur Subdivision.

The major crops grown in the District are Aman, mustard, wheat lentil, and maize & boro paddy. In addition, other pulses, sesame, potato, sugarcane & Vegetables etc.

Planning may be adopted for the mitigation of vulnerability due to Drought Flood

In case of Drought

Condition	Suggested measures
Early Season	a) Direct seeding by Drum seeder b) Paddy sowing by Zero Tillage Machine c) Adopt SRI method of cultivation d) Transplant 3-4 seedlings/hil e)) Distribution of Agril. Inputs to the affected farmers. f) Crop Insurance
Drought Mid Season Drought	a) Rain water harvesting structures & watershed development projects should be developed. Maximum use of available water (surface underground) with the help of Pump sets and water lifts b) SRI method of Paddy cultivation c) Cultivation of drought resistant crops & varieties. d) Maximum use of organic manure to enhance water holding capacity. e) Distribution of Agril Inputs to the affected farmers. f) Crop Insurance
Late Season Drought	a) Rain water harvesting structures watershed development projects should be developed. Maximum use of available water (surface & underground) with the help of Pump sets and water lifts b) Life saving Irrigation with high HP Pump machines c) Plan for early Rabi Crops like oilseeds, pulses, vegetables d) Cultivation of drought resistant crops & varieties. e) Distribution of Agril. Inputs to the affected farmers f f) Crop Insurance

In case of Flood

Condition	Suggested measures
Early Season Flood	a) Drainage system should be developed properly b) Re-transplanting of Paddy/direct Seeding of Paddy by Drum Seeder c) Cultivation of Flood resistant varieties Early Season d) Preparation of Paddy Seed-bed in Govt. Farms for emergency situation Flood e) Establishment of Community Nursery f) Use of Nitrogenous fertilizer for boosting up the plants g) Distribution of Agri. Inputs to the affected farmers h) Crop Insurance
Mid Season Flood	a) Drainage of excess water b) Cultivation of Flood resistant varieties c) Distribution of Agril. Inputs to the affected farmers d) Crop Insurance
Late Season Flood	a) Drainage of excess water b) Plan for early rabi crops like oilseeds, pulses, vegetables. c) Cultivation of flood resistant varieties. d) Distribution of Agril. Inputs to the affected farmers e) Crop Insurance

To overcome the adverse effect of Drought

Actions to be taken up by the farmers:

1. For harvesting rain or runoff water, earthen bunds are to be constructed around the individual plot.
2. Application of organic manure to increase the water holding capacity of the soil
3. Staggered sowing of rice seed in seed bed at 10 days interval
4. Cultivation of Sahabhagi variety of paddy may be followed.
5. Closer spacing with higher number of seedlings per hill is to be practised
6. Direct seeding of rice through zero tillage machines
7. Cultivation of Arhar, black gram, groundnut & maize or mixed cropping of maize & arhar in high lands
8. Mechanical weeding in rice field & use the uprooted biomass of weeds as soil mulch or use other mulching materials like straw in rice field.
9. Not to apply Nitrogenous fertilizer in the soil to restrict weed growth. Foliar spray of Urea or DAP @ 1-2 % may be applied at critical growth stages of the crop

Actions taken by the Agriculture Department

1. Joint monitoring by District level officers of the department of Agriculture, Irrigation & Waterways and WRI &D to be done to look into the real situation and to find out the ways for supplying Irrigation water from all Irrigation sources and ensuring it at grass root level in the blocks. All are requested to help like drought like situation in late kharif of 2015-16
2. Water harvesting structures like pond, dug well etc to be excavated for storing rain water by the departments
3. Pump sets may be provided to the farmers from ongoing Departmental Scheme
4. District Manager WBSSC Ltd. Burdwan promised to supply sufficient quantity of seed if required

To overcome the adverse effect of Flood

Actions to be taken up by the farmers

1. Staggered sowing of paddy seed bed at 10 days interval for at least 2500 ha
2. A place of higher elevation to be chosen for raised seed bed.
3. Cultivation of flood tolerant Swaran Sub-I Variety to be followed
4. To reduce the detrimental effect of sand deposition in cultivated land, sufficient organic matter is to be applied
5. Use of drum seeder in case of late sowing.
6. Double transplanting of Paddy will be very much helpful specially after receding flood water during early and mid season flood
7. In case of late transplanting five to six numbers of seeding per hill to be transplanted and basal dose of Nitrogen to be increased.

Damodar Head works Division

Contingent Plan of Damodar Head works Division, I & W Dte.
for Paschim Bardhaman District

1. Condition of Right Bank Ajoy embankment is OK to manage the crisis situation, necessary arrangement has been made/ to be made.
2. Condition of left bank of river Damodar is the upstream of Durgapur Barrage is stable.
3. Drainage channels like Tamla nalla, Kunur are also kept under close supervision. Re-excavation of Tamla nalla from 0.00 to 8.00 Km and 15.60 Km to 27.20 Km has been completed.
4. Erection of new fabricated gates of Durgapur Barrage is in progress.

(A) Trigger Mechanism

Flood Control Room : 0343-2555640

Sanjay Majumder – Executive Engineer,

Damodar Headworks Division

Mobile No : 9083973938

Office Telephone : 0343-2555640

email id: damodarheadworksdivision@gmail.com

Manoj Tewari, JE 9064646885

Damodar Right & Durgapur Barrage;-

Atanu Bandyopadhyay-7001276140

Junior Engineer

Public Works Department (Roads)

Assistant Engineer, Asansol Highway Sub-Division, Public Works (Roads) Directorate, Asansol is in charge of the total jurisdiction under this Sub-Division. The total jurisdiction is divided in three sections namely Asansol Highway Section, Haripur Highway Section, and Jamuria Highway Section. There are independent Junior Engineers as in charge for each sections.

In this connection it is stated that to meet up the crisis in case of normal disaster which may cause damages of bridge culverts & roads etc. we always keep ready the recoated stone aggregate, jhama metal, brick bats, empty cement bag filled with sand, bullah, bamboo, drum sheet etc. by which those are managed.

All such expenditure are borne from Department own head.

Details of the team

SI	Name	Designation	Posting Station	Mobile Number	Jurisdiction
1	Kousik Karmakar	Junior Engineer	Asansol	9735035526	Burnpur Samdi Road(FR 19) MDR15.13 K.M
					Lalganj Gourandi Runakuraghat Road V.R- 10.37 Km
					Link Road to Rehabilitation cum convalescent Home at Sidhabari V.R 3.80 Km
NH 2 to Industrial Housing Scheme Road(Sen Raleigh Road)ODR-3.0 K.M					

Public Health Engineering Department

Contact details of PHE Directorate

Sl No	Name	Designation	Office	Jurisdiction	Contact No
1.	Pareshnath Roy	Dy. Superintending Engineer	RCFA W/S Circle P.H.E. Dte.	Asansol Durgapur Sub-Division	9475232997
2.	Rupam Ghosh	Executive Engineer	RCFA Div-I P.H.E. Dte.	Barabani, Salanpur, Andal, Pandabeswar, Jamuria, Raniganj	7044045601
3.	Rony Sarkar	Exefcutive Engineer	Asansol Mechanical Division	Electro Mech. Work under Asansol-Durgapur Sub-Division	8001090954
4.	Chinmoy Laha	Exefcutive Engineer	Durgapur W/S Division, PHE Dte.	Durgapur-Faridpur, Pandabeswar, Kanksa	9475606904
5.	Ananta Kr. Ghanty	Assistant Engineer	Durgapur W/S Division, PHE Dte	Durgapur-Faridpur, Pandabeswar, Kanksa	9635155012
6.	Subrata Roy	Assistant Engineer	RCFA Div-I P.H.E. Dte.	Barabani, Salanpur, Andal, Pandabeswar, Jamuria, Raniganj	9474548907

District Controller, Food & Supplies, Paschim Bardhaman.

Designation	Phone No.
District Controller Paschim Bardhaman	7980776571
SCF&S Asansol. RO Burnpur (Addl. Ch.). RO Chittaranjan (Addl. Ch.)	89273 37517
SCF&S Durgapur	7044007407
RO Kulti Ro Asansol (Addl. Ch.)	80133 05205
RO Durgapur East RO Durgapur West (Addl. Ch.)	97330 88027

Chapter-14

List of Events where Large Crowds Gather in Paschim Bardhaman District

Large Crowd Events	Area	Location	Estimated Crowd Strength as per past year record	Organizing Body	Resources deployment by district administration Manpower/ Equipment/ Vehicle etc.
Immersion of Durga Pratima And Durga puja Mela	Asansol Municipal Corporation	Talpokuria	500		Deployed Civil Defence Volunteers as required by Local Police Station and Sub-Divisional Officer
		Fatehpur Pukur 3	700		
		Narsumunda Village Pond	800		
		SF Pond	400		
		Budha Pond	300		
		Padda Pukur (Mohishila)	500		
		Sasan Pukur (Mohishila)	500		
		Bhatar Pukur (Mohishila)	2000		
		Dhemomain Collyary	500		
		Lada Pool Kalla	200		
		Sitla Monjuri Pond	500		
		Sitla Pond	500		
		Bhuthnath Ghat (Damodar River)	2000		
		Kalajharia Ghat (Damodar River)	2000		
		Sripur Pond	500		
	Chinakuri Ramghat	2000			
	Shivmandir Ghat	2000			
	Dishergar Ghat	2000			
	Barakar Marwari Ghat	2000			
	Asansol Municipal Corporation	Kulti Central Mela	20000 per Day X 5 days = 100000 (Approx)		
		Chinakuri 3 no. Mela	20000 per Day X 5 days = 100000 (Approx)		
		Begunia More & Shiv Mandir	20000 per Day X 5 days = 100000(Aprox)		
Durgapur Municipal Corporation	Durgapur Barrage Area	2000			
	Pursaghat (Bank of River Damodar)	2000			
					Deployed Civil Defence Volunteers as required by

Chhat Puja Ghat	Asansol Municipal Corporation Asansol	Kalajharia Chhat Ghat	2000		Local Police Station and Sub-Divisional Officer
		Damodar River Bhooth Nath Ghat	2000		
		Kalla Chhat Ghat	1000		
		Premnagar Chhat Ghat	1000		
		Tapsi Baba Mandir Ghat	500		
		Shitala Pond Chhat Ghat	1000		
		ADDA KSTP Pond Chhat Ghat	1000		
		Ramsayer Bhata Pukur	700		
		Chhotoray Pukur NRR Sarani	1000		
		Budha Talaw	1500		
		Padda Talaw	1000		
		Ramandhu Talaw	1500		
		Talpokuria Talaw	2000		
		Ranganipara Talaw	1000		
		Rangolam Singh Talaw	1000		
		Satabdi Park Loco Tank(West Side)	1500		
		Satabdi Park Loco Tank(East Side)	1500		
	Main Dhemomain Shib Mandir Talaw	2000			
	Kumar Mangalam Water Pool	2000			
	Durgapur Barrage Area	3000			
Pursaghat (Bank of River Damodar)	3000				
Durgapur Municipal Corporation					

Chapter-15

Summarizing the Disaster Management Plan of Airport under Paschim Bardhaman

There are two airports under Paschim Bardhaman District-

Arjan Singh Airbase, Panagarh which is under control of **Ministry of Defence** of Government of India and the information and data of this airport is exclusively secret matter so the data regarding crisis management plan of the second airport i.e Kazi Nazrul Islam Airport, Andal is given below:-

The summary crisis Management plan of Andal Airport

1) Location of airport with latitude and longitude

Durgapur Airport, named as Kazi Nazrul Islam Airport located at Andal Area.

Latitude and longitude	23° 37' 27.7" N 087° 14' 32.5" E
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2) Importance of this Airport

Greenfield commercial airport, to cater flight operations for passengers and cargo, not only for both the districts of Bardhaman but also for adjacent districts Bankura, Birbhum and neighbouring states.

3) Types of Disaster occur in Airport

Aircraft Accidents:

- i) Aircraft accident on the Airport
- ii) Aircraft accident off the Airport

Building fire/Unlawful Threat

- iii) Building fires on the airport
- iv) Bomb threat/Terrorist Attack
- v) Aircraft Hijack situation

1) The committee formed to this purpose (with Name, Designation, Contact Number)

A) Aerodrome Emergency Management Committee:

B) Airport Crisis Management Team

Brief On Aerodrome Emergency Management Committee:

- a) In order to facilitate Emergency Management at Durgapur Airport, an Aerodrome Emergency Management Committee (AEMC) has been constituted with due representation from the Airport and other key support organizations. The prime objectives, responsibilities and basic composition of the AEMC are listed below:
- b) Aerodrome Emergency Management Committee is the empowered committee and the final authority, responsible for taking appropriate decisions from time to time during real-time disasters, on matters related to emergency management operations, addressing print/electronic media, sharing of information with appropriate agencies, liaison with Govt. and Non Govt. Agencies, seeking specific assistance from various authorities and any other matters pertaining to stabilizing of the emergency.
- c) The AEMC comprises with the following members who shall meet at the AECC during real-time emergencies.

i) Head Airport Operations	Convener
ii) District Magistrate- Paschim Bardhaman	Chairman
iii) District Disaster Management Authority	Member
iv) ATC In-Charge- AAI	Member
v) Police Commissioner ADPC	Member
vi) Medical Coordinator (Sanaka Hospital)	Member

Some important Contact Num. Andal airport authority (with Name and Phone Number):

Important contact No. are as follows:-

Department/Person	Name	Landline No.	Mobile No.
ATC Tower	Mr Puneet Tirkee	0341- 7180350	9933300606
Head Airport Operations	Mr Ashok Tewari	0341- 7180301	8145130301
Head ARFF & ES	Mr Prasen Kumar Das	0341- 7180327	9647376765 / 9051562407
Chief Airport Security Officer (APSU)	Dy. S. P. Mr D J Mukhopadhyay	0341- 7180373	9147888716
Chief Security Officer (BAPL)	Mr Subhasis Chakraborty	0341- 7180310	8695615583/ 8334967926
Head Safety	Mr Ashok Tiwari	0341- 7180325	9647355772
Head Terminal Operations	Mr Sidhartha Bose	0341- 7180326	9933307863 / 9614186799
Head Airside Operations	Mr Laxman Chaudhari	0341- 7180317	9800893741/ 7076201095
Air India, S M Durgapur	Niladri Das	0341- 7180387	9830471114
Airport Medical Centre	Sanaka Hospital, Malandighi	0343- 2700082	9817877877 or 8250363889