

Upazila Disaster Management Plan

Upazila: Paba, District: Rajshahi

Plan Developed by

Upazila Disaster Management Committee, Paba, Rajshahi

Coordinated by



July 2014

Supported by

Comprehensive Disaster Management Programme (CDMP-II)
Ministry of Disaster Management & Relief













Preface

Bangladesh is a disaster prone country in the world. Due to Geographical disadvantage, the environment, losing balance of power, are facing various catastrophe like inundation, Tornados, drought, Erosion of river, earthquake, various cyclone, fogginess, white squall and so on. Bangladesh is river mothered country. The erosion of river for over flow of water, destroy the location of river side and all the inhabitants lose their all sort of livelihood and livestock and took shelter being pauper in the hovel on the high land or roads. Not only that, but also, men and industries' createdcatastrophe become the bane for calamity and people use to live in alarming plight. And also, by the horrific effect, all sort of assets, lives, lives, livelihood, livestock and other resources of the locality may fall in danger. It does not destroy only the located people, also create obstacle for National and economical resources of the country. Though it is a disaster prone country but long term' Disaster Management plan' has not been prepared for saving the human being, their all sort of resources, livelihood, animals and other asset, rather have been given importance to rehabilitation and on relief. Government of Bangladesh has taken an initiative on the subject 'Disaster Management Planning' through CDMP 2. To implement the plan in action, primarily has taken an initiative for indication 'Disaster Risk' through conversation with all sorts of local people, Union and Upazila Management Committee. For Preparedness and reducing risk 'Disaster Management Plan' has provided to PabaUpazila by indicating 'local disaster risks' through 'Disaster Management Plan' which will be efficacy for the forthcoming days.

At the time to providing the Plan all classes of people like male, female, cultivator, landless people, aged person, local elite persons, Union and Upazila Disaster Management Committee Members (UzDMC) were congregated. Locally this conspicuous doings have been done by the hard toiling of Shushilan Staffs and related analysis individuals. Disaster Management Committee of Paba Upazila under Rajshahi District have provided this plan by efficacy toilingand restless endeavor. All kinds of important heart rending calamities as, awareness creation among family members and locality, to take preparation for facing risk would have to use local recourses, replacement of living assets and people to a safety place, rescue impediment people, necessary goods indication, and relief distribution have been included in the Upazila 'Disaster Management Plan'. If that plan come into being all kinds of calamities would be reduce and all sorts of materials of the people would be safe. Not only that, but also have included preparation before and after disaster, mitigation disaster by using Local resources, social assets, safety places, indication the causes of disaster, disaster warning sign, mostly disaster prone location, climate changes and its horrific effect, development sectors and name of the local volunteers as well as organization.

I am giving thanks from my core of heart to those very persons who have taken part and have given advice, like all Government and Non-Government Organizations and local persons to perform the conspicuous act in good manner. I am confident; this Disaster Management Plan which has prepared by the coherent cooperation of local people, Local Governances and other local organizations should help to Disaster Management Committee and other sectors (Government, International and National NGO, as well as Donor) to perform all acts as a overall plan.

বাংলাদেশ একটি দুর্মোগ প্রবণ দেশ। ভৌগোলিক অবস্থান, জলবায়ু ও আবহাওয়ার তারতম্যের কারণে স্থানভেদে এদেশে প্রতি বছর বন্যা (নদীবাহিত/বৃষ্টিপাত জনিত), টর্দেডো (ঘূর্ণিরজ), খরা/অনাবৃষ্টি, ভূমিকম্প, ঘন কুয়াশার মত বিভিন্ন ধরণের আপদ আঘাত হানে। বাংলাদেশ একটি নদীমাতৃক দেশ হওয়ায় প্রায় প্রতিবছর এলাকা ভিত্তিক নদী ভালানের শিকার বহু লোক ভিটেমাটি ছাড়া হয়ে নিঃস্ব হয়ে পড়ে এবং নদী-খাল ভরাট জনিত কারণে এলাকা ভিত্তিক অধিবাসীদের সংশ্রিষ্ট নানা ধরণের আপদের সম্মুখীন হতে হয়়। এ ছাড়াও মানব সৃষ্ট ও শিল্প কারখানা জনিত বিভিন্ন ধরণের আপদ প্রতিনিয়ত মানুষকে আতংকগ্রন্থ করে রাখে। এ সমত্ত আপদের প্রভাবে সহায় সম্পদসহ জান-মাল, পশু সম্পদ ও ফসলের ব্যাপক ক্ষতি সাধিত হয়। এর ফলে শুধু আক্রান্ত জনগোষ্ঠী-ই ক্ষতিগ্রন্ত হয় তা নয়, জাতীয় সম্পদ এবং অর্থনীতিতেও ব্যাপকভাবে এর প্রভাব পরিলক্ষিত হয়। দুর্যোগ প্রবণ দেশ হলেও পূর্বে দুর্যোগ ব্যবস্থপনা পরিকল্পনার মাধ্যমে মানুষের সহায় সম্পদসহ জান-মাল, পশু সম্পদ ও ফসলের ক্ষয়ক্ষতি হাস করার সুদূর প্রসারী কোন পরিকল্পনা প্রহণ করা হয়নি। সুকু পরিকল্পনা ব্যত্তিরকে শুধুমাত্র ত্রাণ ও পূন্বগিদনকেই বেশী প্রাধান্য দেয়া হয়েছে। সম্প্রতি বাংলাদেশ সরকার সমন্বিত দুর্যোগ ব্যাবস্থাপণা কর্মসূচীর (CDMP-II) মাধ্যমে দুর্যোগ ব্যবস্থপনা পরিকল্পনা ব্যব্যক এক কর্মসূচী হাতে নিয়েছে। এই কর্মসূচীর আওতায় প্রাথমিকভাবে সমাজের বিভিন্ন স্তরের জনসাধারণ, ইউনিয়ন ও উপজেলা দুর্যোগ ব্যবস্থপনা পরিকল্পনা প্রকল্পনা প্রকল্পনা প্রকল্পনা প্রকল্পনা প্রকল্পনা পরিকল্পনা প্রকল্পনা পরিকল্পনা প্রকল্পনা প্রকল্পনা স্বাম্য স্থানীয় আপদসমূহ চিহ্নিত করে দুর্যোগ পূর্ব প্রস্তুতি গ্রহন ও ঝুঁকি নিরসনের জন্য পবা উপজেলায় কার্যকরী একটি দুর্যোগ ব্যবস্থাপা ক্রিকল্পনা প্রনিকল্পনা প্রনিকল্পনা প্রকল্পনা পরিকল্পনা প্রস্থাণা ক্রিকিল্পনা প্রমান ক্রাণি ক্রিপাণ ক্রাবন্থাপণা করি। ক্রিটা ব্যবস্থাপা ক্রিকল্পনা প্রকল্পনা পরিকল্পনা প্রবাদ্বাপণা ক্রিপিটা মনে করে।

কর্মপরিকল্পনাটি প্রনয়ণে এলাকার নারী-পুরুষ, কৃষক-ভূমিহীন, প্রবীণ ও তথ্য প্রদানে সক্ষম অন্যান্য স্থানীয় জনগোষ্ঠীর প্রতিনিধি, ইউনিয়ন এবং উপজেলা দুর্যোগ ব্যাবস্থাপণা কমিটির (UDMC) সদস্যবৃন্দ সরাসরি সম্পুক্ত ছিলেন। বিশেষ করে অত্র এলাকায় কর্মরত 'সুশীলন' এর কর্মকর্ভাও পরেষকদের নিষ্ঠা ও অক্লান্ত পরিশ্রম স্থানীয় পর্যায়ে পরিকল্পনা প্রণয়নে যথাযথ অবদান রেখেছে। এ কর্ম,প্রচেষ্টা ও জক্রান্ত পরিশ্রমের ফলে রাজশান্তী জেলার পরা উপজেলা দুর্যোগ ব্যবস্থাপনা কমিটি একটি বাস্তবস্থাত দুর্যোগ ব্যবস্থাপনা কর্মপরিকল্পনা প্রণয়ন করতে সক্ষম হয়েছে। অত্র উপজেলায় প্রণীত দুর্যোগ ব্যবস্থাপনা পরিকল্পনায় দুর্যোগ মোকাবেলায় পুরুত্বপূর্ণ বিষয় সম্পূর্ প্রাধান্য লাভ করেছে। তন্মধ্যে উল্লেখযোগ্য হচ্ছে পরিবার ও সমাজ পর্যায়ে দুর্যোগ ঝুঁকি সম্পর্কে গনসচেতনতা সৃষ্টি, স্থানীয় সম্পদ ব্যাবহারের মাধনে দুর্যোগ পূর্ব প্রপুতি গ্রহন এবং দুর্যোগ কালীন সময়ে অপসারণ, উদ্ধার, চাহিদা নিরূপণ, ত্রাণ ও তাৎক্ষনিক পুনর্বাসন ব্যাবস্থার জন্য স্থানীয়ভাবে প্রনীত পরিকল্পনার অনুশীলন ও প্রয়োগ, দুর্যোগ পরিকল্পনায় অংশগ্রহন এবং কার্যকর অংশীদারীত যা বান্তবায়িত হলে আপদ সংশ্লিষ্ট স্থানীয় ঝুঁকি সমূহ অনেকাংশে হাস পাবে এবং জনগণের সহায় সম্পত্তি, জানমাল এবং ফালেরে ক্ষম্বন্ধতির গরিমাণ কমিয়ে আনা সম্ভব হবে। পাশাপাশি দুর্যোগ পূর্ব, দুর্যোগ কালীন ও দুর্যোগ পরবর্তী প্রস্তুতি গ্রহন, দুর্যোগ ঝুঁকি হানে স্থানীয় অবকাঠামো ও অ-অবকাঠামো, সামাজিক সম্পদ ও নিরাপদ স্থানসমূহের তালিকা প্রনয়ন, ঝুঁকির কারপসমূহ চিহ্নিতকরণ, ক্রাবায় ক্রিক বিপদাপন্ন এলাকা চিহ্নিত করণ, ঝুঁকি নিরসনের উপায় চিহ্নিতকরণ, জলবায়ু পরিবর্তন এবং তার সম্ভাব্য প্রভাব নিরূপণ, উদ্ধয়ন পরিকল্পনার প্রধান খাত সমূহ চিহ্নিত করণ এবং বিভিন্ন সামাজিক সংগঠন সমূহের স্বেজ্বাসেবত ভালিকা প্রনয়ন করা হয়েছে।

২০১৪ সালে সিডিএমপির সহায়তায় প্রনীত দুর্যোগ ব্যবস্থাপনা পরিকল্পনাটি প্রনয়নে যে সকল সরকারী এবং বেসরকারী সংস্থা ও ব্যাক্তিবর্গ সক্রিয়ভাবে অংশগ্রহণ ও পরামর্শ প্রদান করেছেন তাদেরকে আমি আন্তরিক ভাবে ধন্যবাদ জ্ঞাপন করছি। আমি আশাবাদী, স্থানীয় জনগন, স্থানীয় প্রশাসন ও বিভিন্ন সরকারী বেসরকারী প্রতিষ্ঠানের সমন্বয়ে পবা উপজেলায় প্রণীত দুর্যোগ ব্যবস্থপনা পরিকল্পনাটি দুর্যোগ ব্যবস্থাপনা কমিটি ও সংশ্রিষ্ট সেইরের (সরকারী, আন্তর্জাতিক ও জাতীয় এনজিও, দাতা সংস্থা ইত্যাদি) জন্য একটি সার্বিক পরিকল্পনা হিসেবে কাজ করবে।

চেয়ারম্যান

উপজেলা দুর্যোগ ব্যবস্থাপনা কমিটি ও উপজেলা চেয়ারমুদ্ধীঃ মোকবুল হুসাইন

পবা উপজেলা রাজশাহী জেলা

8 মোকবুল হ্সাংশ চেয়ারস্যান উপজেলা পরিষদ প্রাক্তপাবী।



Table of Content

Preface	i
Index	ii
List of Table	iv
List of Figure	iv
List of Graph	V
List of Map	V
	1 17
Chapter one: Introduction to Local Area	1-15
1.1 Background	1
1.2 Objectives of Planning	2
1.3 Introduction to PabaUpazilla	2
1.3.1 Geographical Location of Zill/ Upazilla	2
1.3.2 Dimension	3
1.3.3 Population	4
1.4 Structural and Non-structural Information	5
1.4.1 Infrastructure	5
1.4.2 Social Resource	7
1.4.3 Weather and Climate	12
1.4.4 Others	13
Chapter Two: Disaster, Hazard and Vulnerability	16-28
2.1 Overall History of Disaster	16
2.2 Hazards of the Upazila	17
2.3 Description of Different Types of Hazards with Present and Future	17
Illustration	17
2.4 Vulnerability and Capability	18
· · · · · · · · · · · · · · · · · · ·	
2.5 Most Vulnerable Area	20
2.6 Main Sectors of Development Planning	21
2.7 Social Map	22
2011 1 18:114	22
2.8 Hazard and Risk Map	22
2.9 Seasonal Calendar of Hazard	25
2.10 Seasonal Calendar of Livelihood	25
2.11 Sectorwise Life and Livelihood Related Vulnerability	26
2.12 Sector Based Risk and Hazard	26
2.13 Climate Change and Its Possible Effect	27
Chapter Three: Disaster Risk Reduction	29-39
3.1. Risk Reason identification	29
3.2. Ways of Risk Reduction	31
3.3. NGO Development Planning	32
3.4. Disaster Management Work Plan	34
3.4.1. Pre Disaster Preparation	34
3.4.2. During Disaster Preparation	35
3.4.3. Post Disaster Preparation	37
3.4.4. Preparation for Normal Period	38
Chapter Four: Emergency Response	40-51
4.1. Emergency Operation Centre (EOC)	40-31
4.1.1 Emergency Control Room Management	42
4.2. Planning for Hazard Period	43
1,4, 1 141111115 101 1142414 I VIIV4	TJ

4.2.1. Preparing the Volunteers	45
4.2.2. Warning Announcement	45
4.2.3. Measures for Translocating People	45
4.2.4. Rescue and First Aid Service	45
4.2.5. Shelter Management	45
4.2.6. Preparing Boats	45
4.2.7. Measuring the Damage and Need of Disaster and sending Report	45
4.2.8. Management of Relief Activity	46
4.2.9. Collecting and Preserving Dry Food and Life-	46
saving Medicines	
4.2.10. Ailment/ Vaccin for Livestock	46
4.2.11. Arrenging Rehearsals	46
4.2.12. Emergency Control Room Management	46
4.2.13. Shelter Centres/ Safe Places	47
4.3. List and Description of Safe Places of Zilla/ Upazilla	47
4.4. Formation of Shelter Management Committee	48
4.5 List of Resources of Zilla/ Upazilla(usable during disaster)	49
4.6. Finance	50
4.7. Updating and Analizing Work Plan	51
4.7. Updating and Analizing Work Plan Chapter Five: Rescue and Rehabilitation Plan	51 52-74
Chapter Five: Rescue and Rehabilitation Plan	52-74
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment	52-74 52
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery	52-74 52 53
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services	52-74 52 53 53
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning	52-74 52 53 53 53
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation	52-74 52 53 53 53 53
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance	52-74 52 53 53 53 53 53
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation	52-74 52 53 53 53 53 53 53 55
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation Annex2 Upazila Disaster Management Committee	52-74 52 53 53 53 53 53 53 55 57 58 59
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation Annex2 Upazila Disaster Management Committee Annex3 List of Upazila Volunteers	52-74 52 53 53 53 53 53 53 57 58
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation Annex2 Upazila Disaster Management Committee Annex3 List of Upazila Volunteers Annex 4 List of Shelter Management Committee Annex 5 Paba Upazila at a glance Annex 6 List of some important Broadcast Programs by Bangladesh Betar	52-74 52 53 53 53 53 53 55 57 58 59 60 61
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation Annex2 Upazila Disaster Management Committee Annex3 List of Upazila Volunteers Annex 4 List of Shelter Management Committee Annex 5 Paba Upazila at a glance Annex 6 List of some important Broadcast Programs by Bangladesh Betar Annex 7 List of Educational Institutions	52-74 52 53 53 53 53 53 55 57 58 59 60 61 62
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation Annex2 Upazila Disaster Management Committee Annex3 List of Upazila Volunteers Annex 4 List of Shelter Management Committee Annex 5 Paba Upazila at a glance Annex 6 List of some important Broadcast Programs by Bangladesh Betar Annex 7 List of Educational Institutions Annex 8 Feed Back of the Upazila Workshop	52-74 52 53 53 53 53 53 55 57 58 59 60 61 62 65
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation Annex2 Upazila Disaster Management Committee Annex3 List of Upazila Volunteers Annex 4 List of Shelter Management Committee Annex 5 Paba Upazila at a glance Annex 6 List of some important Broadcast Programs by Bangladesh Betar Annex 7 List of Educational Institutions Annex 8 Feed Back of the Upazila Workshop Annex 9 Hazard & Risk Map (Drought)	52-74 52 53 53 53 53 53 55 57 58 59 60 61 62 65 67
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation Annex2 Upazila Disaster Management Committee Annex3 List of Upazila Volunteers Annex 4 List of Shelter Management Committee Annex 5 Paba Upazila at a glance Annex 6 List of some important Broadcast Programs by Bangladesh Betar Annex 7 List of Educational Institutions Annex 8 Feed Back of the Upazila Workshop Annex 9 Hazard & Risk Map (Drought) Annex 10 Hazard & Risk Map (Flood)	52-74 52 53 53 53 53 53 55 57 58 59 60 61 62 65 67 69
Chapter Five: Rescue and Rehabilitation Plan 5.1 Damage Assessment 5.2 Rapid/ advance recovery 5.2 .1 Administrative re-establishment 5.2.2 Wreckage Cleaning 5.2.3 Resumption of public services 5.2.4 Emergency Livelihood Assistance Annex 1 Check List of Emergency Plan Implementation Annex2 Upazila Disaster Management Committee Annex3 List of Upazila Volunteers Annex 4 List of Shelter Management Committee Annex 5 Paba Upazila at a glance Annex 6 List of some important Broadcast Programs by Bangladesh Betar Annex 7 List of Educational Institutions Annex 8 Feed Back of the Upazila Workshop Annex 9 Hazard & Risk Map (Drought)	52-74 52 53 53 53 53 53 55 57 58 59 60 61 62 65 67

List of Table

Table1.1: Upazilla Union & Unionwise Name of Mouza	3
Table 1.2: Union basis male, female child, cripple and cretin	4
Table1.3: Type-wise Number of Road & Length	6
Table 1.4: 31 Years Average Amount of Maximum & Minimum Temperature	12

Table2.1: Name of Disaster, Year, Amount of Loss	16
Table2.2 :Hazard & Hazard's Identification & priority	17
Table 2.3: Afflictions and Capability	18
Table 2.4: Affliction place, Causes, distressed people.	20
Table 2.5: Coordination between development sector and disaster risk reduction	21
Table2.6: Month basis disaster calendar	25
Table 2.7: Seasonal calendar of livelihood	25
Table 2.8 Vulnerability on Life and Livelihood	26
Table2.9: Sector-wise Risks and Hazards	26
Table2.10 :Climate Change and Its Possible Effect	27
Table3.1:Identification of Risk Factors in Paba upazila	29
Table3.2Identification of Ways of Risk Reduction in Paba upazila	31
Table3.3: NGOs' Development Plan	32
Table3.4:Pre -Management Action Plan disaster	34
Table3.5Management Action Plan During Disaster Preparation	35
Table3.6: Management Action Plan Post Disaster Preparation	37
Table.3.7: Management Action Plan Preparation Regular Period	38
Table 4.1:Responsible person of Emergency Operation Center	40
Table 4.2:Planning for Hazard Period	43
Table 4.3:List and Description of Safe Places of Upazilla	47
Table 4.4 List and Description of Safe Places of Upazilla	49
Table 4.5 List of Resources at the Upazilla (usable during disaster)	49
Table4.6:Plan Follow -up Committee contain five member	51
Table 4.7: 7-Member Plan Implementation and Management Committee	51
Table 5.1:Sector wise Damage Assessment in upzilla	52
Table 5.2Administrative Restoration committee in upzilla level	53
Table 5.3: Wreckage Cleaning committee in upzilla level	53
Table 5.4 Public Service Resume committee in upzilla level	53
Table 5.5 Emergency Livelihood Support committee in upzilla level	53

List of Figure	Page
Figure 1.1: Paba upzila porishad	2
Figure 1.2: Embankment	5
Figure 1.3 Sluice Gate	6
Figure 1.4: Deep tubewell under borendro irrigation project	6
Figure 1.5: A market in upzilla	7
Figure 1.6: Kachagor made by mud and tin	8
Figure 1.7: Jhupri house at Char	8
Figure 1.8: Destroyed scool due to Storm.	9
Figure 1.9: Bagdhani Mosque	10
Figure 1.10: Largest eid prayer take place in Pabashashi mosque.	10
Figure 1.11: Health Complex in Paba Upazila	11
Figure 1.12: Waiting for water collection	13
Figure 1.13: Agricultural land in upzilla	14
Figure 1.14: Barnoi river during drought	14
Figure 2.1: Disaster equipment Figure.	16
Figure 2.2: Drought forecast by local news paper Figure.	17

Figure 2.3: Damaged river site owing to havey strom.	18
Figure 2.4: Endangered enviornment due to river erosion.	18

List of Graph	Page
Graph1.1:Family wiseHousing system	7
Graph1.2: Family wiseDrinking water system	8
Graph1.3: Family wise sanitation system	9
Graph1.4: Yearly rainfall amount	12

List of Map	Page
Map1.1: Map of Paba Upazilla	15
Map2.1:Social Map of Paba Upazilla	23
Map2.2:Hazard & Risk Map of Paba	24
Annex9: Hazard & Risk Map (Drought)	67
Annex10: Hazard & Risk Map (Flood)	69
Annex11: Hazard & Risk Map (Storm)	71

Chapter One Information about the locality

1.1 Background

Bangladesh is a disaster prone country in the World Map. It is the most vulnerable devastated country among others, caused by the effect of climate change." Climate well be changed in future" this was the prediction. But it is not true. At present it is happening periodically in the country. The omens of the climate change horrific effects in future are now going to be apparent and it is surrounding with dreadful effect on the development act of the country and lives human being. The atmospheres of the country are deteriorating day by day, The southern zone of the country is devastating by cyclone and inundation, North-west zone is by drought and storm wind, water layer in the ground of the country is very low, North-East and Middle zone of the country are devastating by overflow of water, Hill-tribe is devastating by declivity and soil collapse and erosion of river is becoming the bane to destroy the country with mournful and terrible plight. In future what will be the horrific effect of climate change has not been destined as well as have not taken step for probable prevention and disaster management.

Recommendation of 'Disaster Management Plan including Risk Reduction and Contingency plan' has delivered to City Corporation, Municipality and Upazila. CDMP has given more importance to Disaster Management Plan. Sustainability, efficacy, productivity, the line of action in connection with the subject are depends on related organization, institution and the masses participation. Disaster Management plan will be organized for three to five years. Every districts of the country have to face disaster in every year and among all Rajshahi district is the most disaster prone. Rajshahi district is situated beside Padma. As a result all the Upazuila have to face disaster. Due to Geographical distinctiveness, sunray, erosion, cyclone, coldness, inundation and downpour are the main causes for climatic disaster. Historical place, Poba Upazila of Rajshahi District is situated beside the river Padma. It has surrounded almost area of Rajshahi District and entitled of various important establishments. Among them Shah Mokhdum Biman Bandar, Horian and Shitlai Railway station, Rajshahi Polly Bidut Samity Head Office, Katakhali Power Tiller, Local Office of Rajshahi Open University, Rajshahi Govt, Shisu Sanad, Women and Child's safe shelter and resident and training centre of BRACK.

Poba Upazila is a disaster prone location. All the people survive there with risk of terrible calamity. Lack of preparedness on calamity and effective induction course on premonition of horrific disaster, any efficacy step yet had not been implemented, though the location is facing catastrophic calamity in every year as well as even has not been seen the scene of initiative for 'Disaster Management Plan' in the Upazila level for mitigate disaster. This 'Disaster Management Plan' has delivered to Poba Upazila which will help the local people and institution to mitigate the risk of calamity by creating awareness and capability. This document will be alive there to enliven the people. This document will be renovated by considering 'Scientific information, Priority of national development, perceiving the effect of climate change for the forth coming days. The social atmosphere, economical development, natural history, short explanation of structural planning, internal framework, probably effect of climate change, explanation of different technique of Poba Upazila have narrated in the document in chapter I to 2 as well as have cited the activities performance plan of 3-5 years for building up more capability to management disaster and power of protection. In chapter 4 and 5 have narrated the framework for developing capability and competency of general

people, specially social worker, political person, development worker who will take part to in Disaster Management Plan.

To keep up the consecutive of safe and protection policy of poor and imperil hapless people and integrating with development of country, the 'Disaster Management and Ministry of Relief' have taken an initiative as well as decision under "CDMP" to implement 'Multipurpose Preparedness Plan 'as a part of the object to alleviate disaster. All aspect of the Upazila, like Upazila level Disaster Management Plan, economical development of the local people to face the forthcoming calamity caused by climate change, development of education, hygiene, dwelling place and indication priority to develop technically other structure have narrated in the document vividly. So, it is need of necessary for everybody to know the importance of the document.

1.2 The Main Object

The category of disaster probably may be changed. So, in this respect it is needed to include and exhibit into the Nationally Policy Specification all sort of efficacy initiative at field level to face the climatic disaster as well as reduce the risk .The Disaster Management and Ministry of Relief have taken an initiative of 'Multiple Planning' under "CDMP" for risk analysis and mitigation. Under the Multiple Planning the Government has taken a long term disaster facing initiative avoiding' Relief and Rehabilitation depending risk reducing performance.

The main objects are narrated bellow:

- To create awareness about risk of disaster among the people of the family and society by innovating practical existing way.
- To mitigate risk by using local resources as well as establish the system permanently by the endeavor of local people.
- Should have to need to follow and establish the plan locally for replacement, rescue, relief distribution and rehabilitation.
- Needed a skilful planed document for a certain place and period.
- This Document will help Disaster Management Committee and Related sector
 - (Government, international and National NGO and Donor) to serve as an overall plan.
- This Document will give direction to related partner for endorse plan and implementation.
- This Document will enliven the community to take part in Disaster Management activities as well as to perform efficacy act.



Figure 1.1: Paba upzila porishad

1.3 Introduction of Poba Upazila

Poba Upazila was established on 11th November -1983. It is situated beside the river 'Padma'. The name 'Poba' was created from the name 'Poba Mouza'. After establishment of 'City Corporation' Poba was included. The name of the Poba Thana is 'Shah Mokhdum Thana'.

1.3.1. Geographical position of the Upazila.

- This Upazila is under Rajshahi District.
- Election Center-54, Rajshahi-3

- Name of other UP which have surrounded Poba Upazila. It is narrated bellow: In the North side-Mohanpur and Tanor Upazila, in the east- Putia and Durgapur Upazila, in the South 'Charghat and East Bengal of India and West –Godagari Upazila.
- Short narration of river, road, embankment and so on of the Upazila:- Panoramas of the Upazila are very beautiful for its flowing river, various trees, paddy, various categories house, moving cattle and etc. Natural lands are high and plane. There are three rivers running through the Upazila. Embankment have established in four Unions and two Municipality. Communication and transportation systems are maintaining by Motorcycle, Rickshaw, Van, Cycle, Bus, Boat and Railway carriage.

1.3.2 Dimension

As per assessment of Poba Upazila its dimensions are 339.62 sq.km. There are 262 villages and 216 Mouza in the Upazila.

.Table1.1: Upazilla Union & Unionwise Name of Mouza

.140101.1.	ерагіна ешен ж	Official value of Mouza
Nam e of Upazila	Name of Union	Name of the location/village/area in every Union
Poba Upa zila (72	Darshanpara (43)	Baroipara, bagasaila, bagacapa, biladharmmapura, Taluk Dharmapur, sandalapura, prasadapara, bilanepalapara, ghosapukura, darsanapara, tisalai, tetuliya danga, darsanapara plaza. = 13 The total number of village
	Hujuripara (65)	Nepalapara, sarisakuri, hujaripara, Radhanagar, dharmahata, karamaja, ghipara, turapura, tetumliya, saramanla, North laksmipura, Sahapur Dying Mullah, Mullah winds, kumarapukura, karnahara. = 16 The total number of village.
	Damkura (35)	Madhupur, medobari, traveler, nb Bullock, deluyabari, gosaipura, harisara Dying, kadirapura, bathanabari, asagrama, alokachatra, Bhim Dying, sitalai. = 13 The total number of village
	Haragram (51)	Ballia, Pilot, kasiyadanga, Pukuria, kulapara, barabariya, bujakai, minapura, Bill barabariya, aliganja, bahara, basuya, khirasana, punk silinda, Baroipara. 15 = total number of village
	Horipur (61)	Pirate majhara diyara, the towns, basuri, Gopalpur, madanapura, Suburb, Haripur, harupura, Nabaganga, asababapura, Pirate Nabinagar Nabaganga Char, Char Haripur, Jazeera Char, Char jhaubona, Pirate sonaikandi Jazeera, majhara Night, Night nayamajhara, jajiya Pirate dumuria. = 19 of the total number of village
	Horiyan (54)	Hariyana, thumbs, samasadipura, Shampur, rupasidanga, sucharana, was stuffed, emadapura, mallikapura, ranahata, nalakhola, kukhandi, Kismat kukhandi, kaliyarapara, bakharabada, masakatadighi, Mohanpur, hajarapukura, diyara Khidirpur, Pirate Khidirpur, conflicting taranagara, bindadaha Char, Char keshabpur, Rampur Char, Char Shampur, Serampore, Pirate saipara, kadirapura, titamari, sibanagara diyara. The total number of village = 30.
	Baragachi	Amagachi, jotakandara, suryyapura, itaghati, madhayapara,
	(27)	hayadarahati, tekata grow, dadapura, plaza goyaladaha,

Nam e of Upazila	Name of Union	Name of the location/village/area in every Union
		goyaladaha, kanapara, talagachi, gopalahata, baragachi Madhabpur, heroes shed, kanasipara, subhipara, Mathura, sabasara, nagasasa, birastaila, panisaila, jayakrsnapura,
		bhabanipura. The total number of village = 25.
	Parila (87)	Sarampura, kaipukuriya, tebariya, Ramchandrapur, kharakhariya, lalitahara, kalumera, purapukura, narikelabari, musaraila, Quechua oil, balanagara, Maria, bhagiratapura, ujirapukura, cakaparila, bajarapura, durgapara, parila, taraphaparila, gholahariya, siraliya, kapasamala, kamthalapara, bhalukapukura, koyra, dwarf roots, capapukura, panthapara the total number of village = 29
	Nouhata Municipality	Sreepur, pillapara, Kazipara, tikaripara, Duari, caubariya, majhigrama, kumarapukura, Santoshpur, Gbaya, bholabari, naohata, mahanandakhali, Daulatpur, Baroipara, thalata, takipura, teli laid, bagadhani, Bashantapur, bagasara, teghara, Alai Godagari, madanahati, madhusudanapura, palopara, puthiyapara, baraikuri, bhogaraila, Ballia danga, Damkura, anchorite laid, laid Pal, cleverly laid, moon pond, namo laid, laid the pike, fox barrier, sindura kusumbi (Dewan Para), gold laid. The total number of village = 40.
	Katakhali Municipality	Thumbs, emadapura, samasadipura, masakatadighi, bamkarabada, deoyanapara, Shampur Goalpara, Shampur nagarapara, Shampur Madhyapara, Shampur maulabhipara, Shampur natunapara, Shampur mollapara, Shampur pascimapara (part), Shampur thandarapara, Shampur carapara, Shampur pascimapara (part of the) village mota number = 16.

Source: Upazila Parishad, 2014

1.3.3. Population

All kinds of religions (Muslim, Hindu and Khristian) are living from the ancient period in the Upazila together with peace and harmony. Person of every religion took part in other religion rite and do not neglect their activities, also not show antipathy, animosity and malignance. Total inhabitants of the locality are 314196 and among them 257163 are male and 267497 are female. There 900 person live in one sq.km and rate of growth of population is 2.08%. Numbers of person are narrated below

Table 1.2: Union basis male, female child, cripple and cretin

Area	Male	Fem ale	Chi ld % (0- 17)	O1 d % 60 +	Cri ppl e/ Cre tin %	Total No- of person	Fami ly	No of Voter
Darsh anpara	6613	6643	31. 8	7. 1	2.2	13256	3394	1020 3

TT · ·	1225	1205	22		1.0	26420	6 5 04	2250
Hujuri	1337	1305	32.	7.	1.2	26428	6584	2258
para	2	6	5	3				2
Damk	1044	1033	32.	6.	1.3	20781	5003	1852
ura	3	8	1	6				1
Harag	1440	1373	34.	6.	1.5	28138	6484	1665
ram	8	0	7	7				3
Horip	1933	1886	32.	6.	1.4	38204	8828	2765
ur	7	7	8	1				3
Horiy	1248	1207	30.	6.	1.7	24560	5952	1988
an	8	2	6	5				0
Barag	1945	1920	29.	6.	1.8	38653	9607	2566
achi	0	3	5	9				6
Parila	1960	1884	30.	6.	1.5	38444	9772	2398
	0	4	1	6				6
Nouha	2882	2823	32.	7.	1.1	57119	1404	4968
ta	6	9	7	8			5	3
Munic								
ipality								
Katak	1491	1369	33.	7.	1.3	28613	6953	2483
hali	5	8	2	1				2
Munic								
ipality								
Total	2751	2674	31.	6.	1.5	31419	1532	2396
	63	97	2	7		6	44	59

Source: BBS, 2011

1.4 Structure and Non-Structure

Poba is originally agricultural Upazila. Almost people survive on agricultural products. So, many agricultural institutes have been built up. All the area of the Upazila is under electricity. There are few quantity of other industries and handicraft industries have established. Main productive institutes are hen- duck cultivation, cattle farm, rice mill, printing press, cold storage, brick field and various handicrafts. Communication systems are very well and that has assisted to increase business institutions.

1.4.1. Infrastructure

Embankment

There are 6 km. long embankment have constructed in Darshan Para Union of Poba Upazila nearby Johakhali river. It has reached to Nohata Municipality. There is an embankment in Hojripara union. It is stated from Shirsha Para and has reached Mollar Daing via beside Kalitolar Bil and from Kumra pukur to Purakhali



Figure 1.2: Embankment

embankment via Vagail and Shor Mongla. Also has other roads and embankment. It is narrated bellow: 19 km embankment in Horipur Union. Embankment from Horogram Union to Baliagram. 17 km. embankment stated from Boragashi Union and reached Kalupara.

Sluice gate

There 30 sluice gate are situated in Poba Upazila. Among them10 in Nowhata municipality, 2 in Katajhali Municipality, 3 in Darshan Para Union,2 in Hojripara union, 3 in Damkura Union, 4 in Horipur Union, 2in Parila Union, 1 Borgashi Union, 1 in Horgram Union and 3 in Horian union. Those have been using for deflating water from every union of the Upazila. Downpour, inundation and cyclone are always becoming ban in every



Figure 1.3: Sluice Gate

year for the inhabitants. But changing of climate its effect are being horrific and catastrophic. In this plight sluice gate is the most important for its effective services. It is helping to deplete water at the time inundation.

Bridge / Calvert

There are 35 in Poba Upazila. Among them quantity of 3 are in Damkura Union,6in Katakhali Union, 2 in Horian Union,3 in Parilas Union,4 in darshan para union, 5 in Nohata union, 5 in Borgashi union, 3 in Hujuripara union, 2 in Horgram Union and 2 in Horipur union.

Road / Communication system:

There are 944.17 km. roads are available in Poba Upazila. Among them 944.17 km are concrete,409.06 are semi concrete and 695.12 mud roads.

Table 1.3: Type-wise Number of Road & Length.

Upazila	Type of roads	Quantity of	Total length
		Roads	
Poba (72)	Upazila Road	14	120.96
	Union Road	24	118.00
	Village Road "A"	214	509.37
	Village Road "B"	200	355.85

Source: Field Trip, 2014

Irrigation System:

Barendra Multiple Development Association (BMDA) has taken some important steps to save agricultural activities from the effect of climatic change and geographical circumstances. Through the project "Rain Water reservation and Irrigation" BMDA has taken an initiative it is narrated bellow: (a) Will have to take water from river Padma to the local cannel by pipe and should have to use in due time.(b) Should have to choice crop which is needed few quantity of water to cultivate as well as should have to



Figure 1.4: Deep tubewell under borendro irrigation project

encourage the farmers to follow instruction. (c) Should have to take initiative to reservation

rain water in cannel, pond or selected place. BMDA is assisting in various aspect to the famers to run their activities with full of go. At present there are 288 deep tubes wells in 8 unions available.

Hat & Bazaar:

Though Poba Upazila is a agricultural location, but industries like Auto rice mills, Oil mills, Coarse Flour mills, Saw mill, Brick field and etc. are available. There are 24 Hat and 11 Bazaars in Poba Upazila and those are supplying all sorts of daily usable essential goods and commodities for the people three times in a week. Not only that but also, many goods are being exported through the Bazaar and Hat.



Figure 1.5: A market in upzilla

1.4.2. Social Resources

Development of Social resources in a certain area depends on the monetary social position. Communication, Religion and Education Institute, ritual place, Field, monetary Institute. G.P.O. Office, Cultural Organization, plantation and so on are known as Social Resources. Various development activities of N.G.O. are also indicate Social Resources which are available in the Upazila.

Houses

Almost houses of 8 Unions and 2 municipalities under Poba Upazila are made of mud. Somewhere are seen brick-built house. But it is a few. Hovels are seen more in the rising sandy land of river. At present it is seen that somebody are trying to build up brick houses. In bellow are narrated mud house, hovels, semi concrete house and brick-built houses by Grape feature.

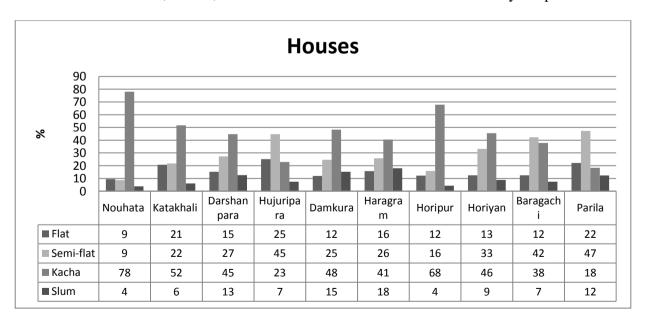


Figure: 1.1. As per various forms, the present position of houses in Unions and Municipalities (According to census -2011)

After analysis of Grape feature, it is seen that 15.9% of houses are brick-built, 31.8% are semi concrite, 43.1% are made of mud and 9,2% are hovels in all Unions and Municipalities.

Horipur, Horian Union and Katakhali Municipality are situated beside the river 'Padma'. Many peoples of those unions are living on the rising sandy lands of river. As, almost houses of those unions are made of mud and hovels, so, by the effect of cyclone, inundation, storm, cold winds, sunray, erosion and other climatic disaster all the houses be destroyed and all the persons have to face various problem being distressed.



Figure 1.6: Kachagor made by mud and tin



Figure 1.7: Jhupri house at Char

Water

Main sources of potable water of Poba Upazila are nothing but tube-well. There 288 deep tube-wells and 3815 normal tube-wells have established in the Upazila. But due to Geographical circumstances, climatic change and catastrophic activities, the natural environments are changing horrifically and the dangerous aftermaths of the plight are forewarning presently. Arsenic is now being seen in tube-well water. As a result scarcity of potable water is showing a bane for the inhabitants of the locality. In the dry season the layer of earth water go down. Then scarcity of water comes across. In that mournful plight the inhabitants use water for mitigation their need of necessary acts from ponds, cultivating lands, cannels and river. But want of awareness the people are doing pollution water by using chemical elements in all sources of water like ponds, in lands, cannels. Even they do not excavate ponds. So, day by day potable water crisis are now coming in front of locality a catastrophic bane of lives. Here is cited the source of potable water through tube-well, tape and others by Grape Feature.

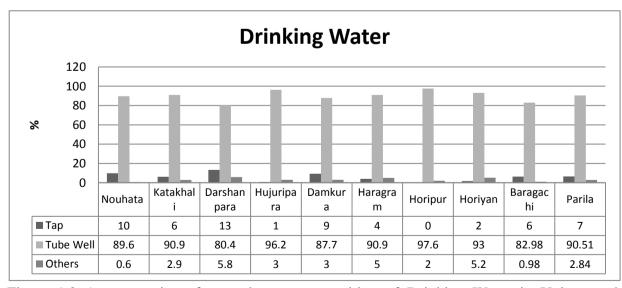


Figure 1.2 As per various forms, the present position of Drinking Water in Unions and Municipalities (According to census -2011)

After analysis Grape Feature, it is seen that sources of water of 90% family are Tube-well, 5.8% family are Tape and 3.13% family are depending on ponds, cannels and rivers. Alternative sources of water for the people of Darsan Para and Nohata Municipality are inadequate. As a result in dry season people mainly child, old man, cripple, pregnant women and cattle have to face mournful scarcity of water as well as should have to face water born diseases. From this period, it is presumed that if the alternative sources of water do not be maintained, in future should have to face scarcity of potable water as a terrible heart rending plight.

Water drainage system

Water drainage system has not been expanded as per expectation in Poba Upazila. Though water drainage system in other area is appearing a certain position but in the place of sandy land of river is very bad. Engineering department of Upazila, personnel endeavoring, initiative of NGO and other Donor's organization has taken initiative but that are not enough for necessity. The present systems of Water drainage are narrated bellow:

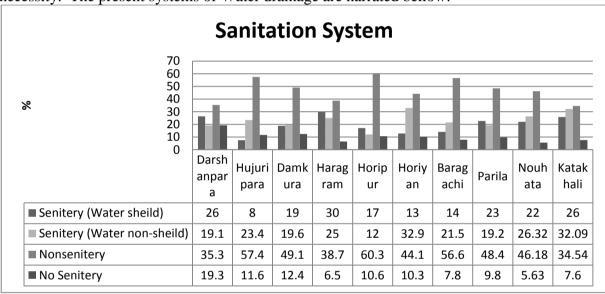


Figure 1.3 As per various forms, the present position of sanitary system in Unions and Municipalities (According to census -2011)

Pan of water sealed sanitary latrine be connected with drainage pipe by U shape pipe which protects all kinds of diseases and it is called safety latrine. But Non water sealed latrine is not entitled of the technology. So water born diseases pervade in everywhere. There 9.6 % family of Poba upazila and two Municipalities use Water Sealed Sanitary Latrine, 25.5 % use non-water sealed latrine, 55.5 % use unhygienic larine and rest of others have no latrine. The above grapes have indicated the present position of the locality. A large numbers of families of

Darshan Para, Damkura, and Hojripara union use less of water sealed latrine.

Library/ Educational Institute.

Poba Upaziola is very attractive for its education level and historical events. There many reputed educational institutes of govt. and non Govt are available and also have Madrasa here. There are many educational situated here. It is cited bellow:



Figure 1.8: Destroyed scool due to Storm.

University –No-2, Govt. Primary School-79, Community Primary School-1, High School-56, Dakhil Madrasa-18, Alim Madrasa-5 and Fazil Madrasa-1. It is cited that many school use to utilization as a shelter, but favorability and facility were not enough. Many institutions have damaged for erosion of river and others are not conducive for lack necessary goods and other facilities. Yet in that perplexing plight two Schools are using as safe shelter and its powers of retention are very low. Almost schools are one storied. So, men and cattle can live separately. Erenow those institutions were not used as safe shelter. Those schools are situated on the high land nearer to the household. As a result almost people of the location move around the schools. In that position those may be use as shelter for the local people in time of calamity. If those buildings be renovated by relinquishing all type of structural hindrances, building up separate latrines for male and female, securing of potable water, different high place for cattle then those should be indicated as a safe shelter for the well being of wretched people and goods, livestock and livelihood damage would be reduce.

Religious institutions;

There 470 Mosques,18 Mondir and 9 Girza have situated in Poba Upazila. But erenow those were not used as shelter in disaster period. It is cited that all kinds of religious institute built up on the high land of the locality nearer to the location and people move around. As a result those do not be damaged or inundated in disaster period. All kinds of People of the location ponder that those religious institutes' may be use in disaster period as those are situated in the high place of the location and would prevented damages of goods.



Figure 1.9: Bagdhani Mosque

Eidgah

There are 213 Eid-Gha Field located in the Poba Upazila and among them there are 44 nos in Nowhata Municiplity, in Katakhali Municipality -16, Darson Para Union-23, Hojripara Union-26, Damkura union-16, Horgram Union-10, Horipur Union-15, Horian Union-11 Borgshi Union-34 and Porila union 18. As per version of the local people those were not used in the previous period of disaster. Those fields use to utilize in two times of the year. As a result, those fields use



Figure 1.10: Largest eid prayer take place in Paba Upazila

to cover by coppice. If those fields be renovated by the initiative of Union Parishad, that would be conducive in disaster period for shelter of cattle.

Graveyard/ Crematorium

There are 151 Graveyards in Poba Upazila. Also have one Crematorium in the Upazila and have situated in the remote and high place in the locality and those are covered by coppices.

Health Services Centre.

Almost people of the Poba Upazila live in a remote place. They do not receive well health service properly. They use to attend in village doctors. As a result they have to face various health problems. There are few Health quantities Service Centers of available in the Poba upazila, it is narrated below: In Poba upazila- Health Complex centre is one and 8 Health and Family Welfare Centre in Union. Doctors-17, Senior Nurces-9, Assistant Nurces-1. There are 33 Upazila Community Clinic in the Upazila. Among them quantity of 5 are in Nowhata



Figure 1.11: Health Complex in Paba Upazila

Municipality, 6 in Katakhali Municipality,01 in Darshanpara union,3 in Hijripara Union,01in Horogram union,2 in Horipur Union 5 in Horian Union,5 in Borgashi Union and 4 in Parila Unin. Those do not indicate good health service delivery system in the remote places of the locality for the hapless people. Almost people of sandy lands of river get treatment from rural Doctors and Kabiraz. here are five thousand people live in sandy land of river. Death ratio of child and lactation mother are high than other place, because of communication, scarcity of medicines and proper doctors as they defend on rural doctors and Kabiraz. In time of moral crisis all sort of people run to Rajshahi Medical College Hospital and that takes more time which causes are heart rending plight. They have to face death or other crisis.

Bank

There are 7 Banks along with 25 Branches in Poba Upazila. It gives services to the denizen of the Upazila. There have Insurances Company like delta Life insurance, Fareast Life Insurance, Progressive Life Insurance and Megna Life insurance.

Post Office

At present modern post office are available there. There are 15 Post Offices in the Upazila. Those Post Offices are delivering service in good manner. They also are serving monitory linkage services.

Club/Cultural Activities/ Enjoyable centre

There are 28 Clubs, one Library, 5 Cinema Hall and 64 Women Organizations in Poba Upazila. The registered clubs are doing various doings for developing society.

Play Ground / Place

There are 70 Play Ground in the Poba Upazila and those are situated in overall unions in the upazila Almost Play Grounds are plain and smooth. Some grounds are on low land and becomes submersed in rainy season. If those were high land people would use in disaster period.

N.G.O /Voluntary Organization

There are 25 NGO existing in the Upazila. Paba Upazila is disaster prone location. Those NGO are performing various activities in calamity to fetch off and fetch up from the devastated plight. In consecutive of the activities ASHA, SUCHANA, NODI and JIBON, SAWCHATAN, TANDA MARI MOHILA SABUJ SANGA, BRACK and others.

Forestation:

Social Forest Department of Rajshahi District has taken an initiative to build up forest in the raising sandy land of the river through the project 'Biodiversity conservation and poverty Rreduction' and that is going on with full of go. In consecutive of the activities tree plantation

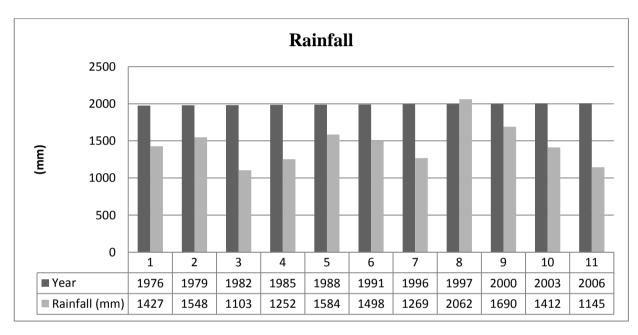
on the road in every Union of the Upazila are going on. There are 50 KM. roads are covered with trees. Also people of the location have taken initiative to plant tree in their location.

1.4.3 Weather and Climate

Average rate of downpour of the Upazila is 45". Sometimes that comes up or down. Effect of diversity of seasons, heavy downpour or dryness is sustainable in the location. In dry season rate of temperature becomes high.

Stream of rain

As per Scientific information in the last 31 years, average rain fall in Rajshahi was 2241 mm. In the previous ten years that was 1639 mm. In the year 1993 that was 1623 mm. The lowest rate of rain fall was 843 mm. in 1992. From the year 1996 to 2005 the rain fall was very high. In 1997 that was 2062 mm.



Graph1.4: Yearly rainfall amount

Temperature

As per Scientific information in the last 15 years (from 1979 to 2094), average temperature in Rajshahi was recorded and that was – in 1979 was 31.1 $^{\circ}$ and in 1983, the lowest was -20 $^{\circ}$.

Table 1.4: 31 Years Average Amount of Maximum & Minimum Temperature

	Yea	Highest	Lowest		Yea	Highest	Lowest
r		Temperature	Temperature	r		Temperature	Temperature
	197	31.8°	21.1°		199	31.2°	20.6°
9				5			
	198	31.2°	20.9°		199	31.5°	20.5°
0				6			
	198	30.5°	20.5°		199	30.5°	20.2°
1				7			
	198	31.7°	20.3°		199	30.9°	20.1°
2				8			
	198	30.9°	20°		199	31.6°	20.1°
3				9			

	Yea	Highest	Lowest		Yea	Highest	Lowest
r		Temperature	Temperature	r		Temperature	Temperature
	198	30.9°	20.2°		200	30.7°	20.6°
4				0			
	198	31.3°	20.3°		200	31.2°	20.5°
5				1			
	198	31°	20.1°		200	31°	20.6°
6				2			
	198	31.5°	20.5°		200	30.8°	20.7°
7				3			
	198	31.4°	20.4°		200	31.1°	20.7°
8				4			
	198	31.4°	19.4°		200	31.3°	20.9°
9				5			
	199	30.9°	19.6°		200	31.7°	21°
0				6			
	199	31.3°	19.8°		200	32°	21.1°
1				7			
	199	31.6°	19.7°		200	32.2°	21.2°
2				8			
	199	31.1°	20.1°		200	32.5°	21.3°
3				9			
	199	31.1°	20.°4				
4							

Water layer in the bowels of the earth

The water layer of the earth is continuously going down due to miss use of water and that is increasing day by day. As a result the effects of that are very alarming for the environment. The climate of the zone is not conducive. It is decreasing and going on to the horrific effect

which would devastate the zone and it is ostensible. The balance of power of the environment is not sustainable. The rain fall in rainy season are very low, in dry season the temperature is raising high and in midnight have to face cold. This is the signal of tremendous horrific effect of the locality.

For the various causes water layer in the bowels of the earth is going down. The main causes of the plight are system less agricultural activities, water collection from earth for cultivation, dryness in the



Figure 1.12: Waiting for water collection

locality and etc. in the dry season people have to face scarcity of water horrifically.

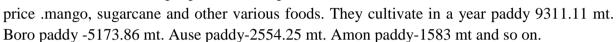
1.4.4 Other resources

Land and its utilization

Total lands of Upazila in 6 Unions are narrated bellow; Cultivation Lands are 45756 Accor. Govt. acquired lands are 4048 Accor Non cultivation lands are 35630 Accor. Cultivation lands under irrigation are 144 Accor. One term crops land is 2340 Accor. Two terms crops land are 3060 Accor. Three terms crops land are 290 Accor.

Cultivation and victuals

The main victuals of the people in Paba Upzila are



There three rivers in Poba Upazila are running. Padma is Main River in the locality. Johalhali and Barnoi are another and that is running over the Upazila. Total river and in the locality are



Figure 1.13: Agricultural land in upzilla

River

152.40Hector. **Pond/ Dighi**

There are 1950 pounds in the Upazila. Among them in Parila Union are 60, in Dorshanpara Union are 153,in Borogachi Union are 354,In Horipur Union are 220, in Nouhata are 530, Hujuripara in are 488 and in Katakhali Municipality are 250.



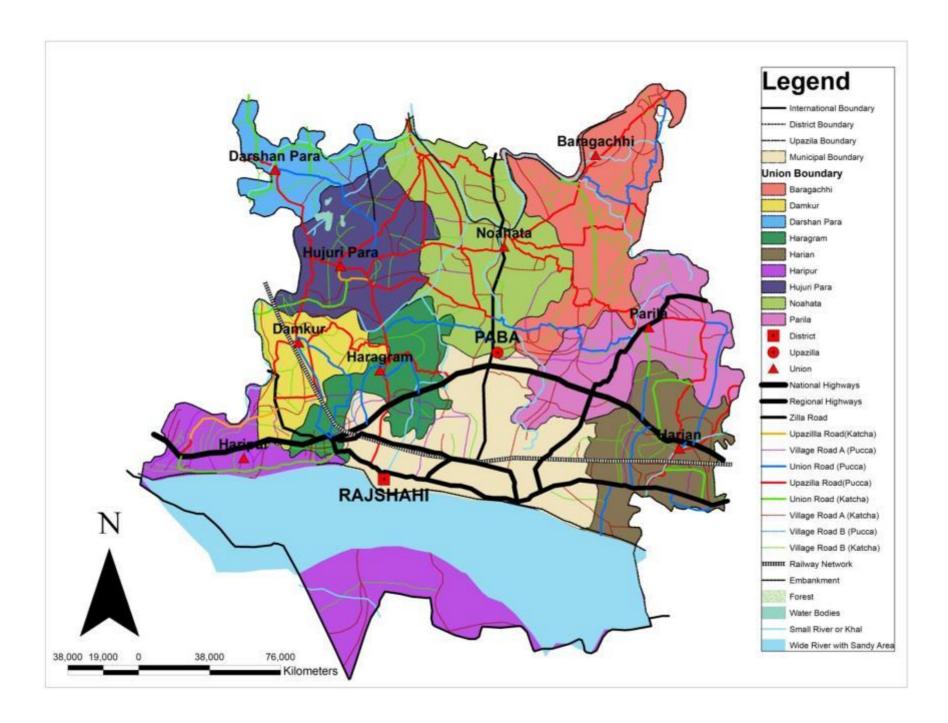
Figure 1.14: Barnoi river during drought

Haour/ Marshland

Total marshland in Paba Upazila is 5 Hector.

Arsenic Pollution

It is ostensible that Pestilence of Arsenic is pervaded in everywhere in the Upazila. The water of the sallow tubes wells are almost Arsenic polluted and not drinkable. In dry season water layer of the earth go down. Then people have to face scarcity of water. At present it is proved hat 14864 pond of 16206 are free from Arsenic. There are many people suffering from



Chapter Two Disaster, Adversity and Affliction

2.1 Overall Scenario of Disaster

Bangladesh is a disaster prone country in the World Map. It is the most vulnerable devastated country among others, caused by the effect of climate change." Climate well be changed in future" this was the prediction. But it is not true. At present it is happening periodically in the country.

In every year, inhabitants of Basgha Upazila have to face any one disaster. By analyzing, it is seen that erenow in the year 1988, 1998, 2003 and 2004 Paba Upazila faced mournful horrific disaster. After the

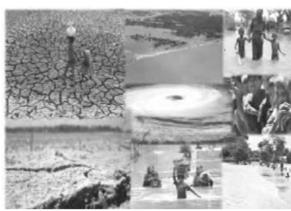


Figure 2.1: Disaster equipment Figure.

year 2000, disaster is appearing as a white squall and devastating agricultural land, education and health service institutions, livestock, livelihood, household and biodiversity of the locality and effects of that people are becoming destitute, wretched and pauper. Due to inundation, there 500 to 600 family who were living on the rising land of river bed have devastated. In 2003 due to heavy rain fall more than 200 mud made houses and 500 Accor of paddy land were damaged. Not only that but also TORNEDO in 2003 devastated the location.

In the year 2005 sunray/drought devastated 700 Accor paddy land and fishes of 712 ponds. In the from 2004 to 2006 by the horrific storm destroyed mango garden, houses and other livestock.

Diagram of disaster- narrated bellow

Table 2.1: Name of disaster, Year, damage, damage of goods

Nama		Scenari	
Name	Year	o of	Name of damaged goods
of disaster		damage	
Sunray	1976,1979,1989,1992	Very	Agricultural resources. Health
	,1996,1999,2004,2005,20	Much	services
	07,2010,2011,2012	Middle	Fishes. cattle
Inundati	1988,1998,2013	Very	Fishes, Health
on		much	sector, Structure Communication
		Middle	Agricultural resources/animals
Kal-	1988, 1992, 1995,	Very	Cultivation ,Human resources,
Baishaki	1997, 2004, 2006, 2009,	much	structure
storm	2011, 2014	Middle	Fishes, cattle, communication
Erosion	1988, 1998, 1999,	Very	Agriculture, Structure, Roads, and
	2000, 2005, 2006, 2013	Much	so on
		Middle	Fishes, Cattle, Human resources.

2.2 Scenario of catastrophes of the Upazila

Various catastrophes direct or indirect damage various places or institutions in all locations of the Upazila Paba. It is climatic and man's creation. These 8 kinds of adversities have been identified as per discussion with local people and it is gradually appearing horrifically.

Table2.2 : Hazard & Hazard's Identification & priority

Natural Calamity in all	location of the Upazila -Paba	Main Hazards
Natural Hazards		Maiii Hazarus
1.Drought	10.Earthquack	
2. Heat Wave	11.Sunray weather	
3.Water Layer	12. Inundation	1 Duayaht
4.Heavy downpour	13.Tornedo	1. Drought 2. Flood
5.Fridigity	14.Hail-storm	2. F100d 3. Storm
6. Sunray	15.Thunderbolt	4. River Erosion
7. River Erosion	16.Insect attack	5. Water Layer
8.Thick fogy	17. Flood	6. Heat Wave
9.Arsenic	18. Drizzle	7. Drizzle
Human Creation Hazards		8. Arsenic
18.Conflagration	19.Nonconducive	3. 1 m seme
	activities of men	

Source: Field trip, 2014

2.3 Various Catastrophes and Its Present and Future Effects

Sunray creates in this location by the causes of climate change and want of rain fall in dry season. Invasion of sunray is the general scenario in the location. The people face sunray in two times in a year, It is Chaitra to Jhaistta and Vadra to Kartic mash. Then have to face various problems and its effect fall on cultivation of land, fisheries, trees, animals and birds. All sort of cannel, somewhere small river become dry. Layer of ground water go more down. If this perplexing plight runs continuously, this location would fall in dangerous position.

Drought

This location does not face tremendous inundation generally. Sometimes have to face by the causes of heavy rain fall and all territory become submersed for the over follow of water of Padma and Boral river and that brings devastation. Inundation for heavy rainfall in the year 1988 and 2003 are ostensible. In that people faced various problems and lost their household, livestock and livelihood.



Figure 2.2: Drought forecast by local news paper Figure

River erosion

In the year 2013 Paba Upazila faced river erosion. Parila, Pakuria and Monihgram Unions were damaged by its horrific effect. In every year erosion of river occurs and it is increasing alarmingly.

Kal Baishakhi Storm

Kal-Baishaki storm attacks from North –East in the locality in the month April and May along with thunderbolt and hail-storm. Once, this location was attacked by the Kal-Baishakhi after two or three years. But from the year 2004 it is happening now and then and damaging everything.

Temperature

As per Scientific information in the last 15 years (from 1979 to 2094), average temperature in



Figure 2.3: Damaged river site owing to have v strom

Rajshahi was recorded and that was – in 1979 was 31.1° and in 1983, the lowest was -20°. Paba Upazila also a part of the District. So, have to Temperature in the month of Chaitra, Baishakh, and Jhasta. It is increasing every year and devastating various resources as well as livelihood.

Water layer in the bowels of the earth

The water layer of the earth is continuously going down due to miss use of water and that is increasing day by day. As a result the effects of that are very alarming for the environment. The layer of water is very low in Paba Upazila. It is more than 60' -90'

Arsenic Pollution

It is ostensible that Pestilence of Arsenic is pervaded in everywhere in the Upazila. The water of the sallow tubes-well is almost Arsenic polluted and not drinkable. In dry season water layer of the earth go down. Then people have to face scarcity of water. At present it is proved that 14864 pond of 16206 are free from Arsenic. There are many people suffering from Arsenic.



Figure 2.4: Arsenic affected women.

2.4 Affliction and capability

'Affliction' indicates the risky atmosphere of social, economic and nature which is coming up to devastate all and sufferers are not able to prevent.

'Capability' indicates the power of prevention of any kind of catastrophic disaster as well as reduces suffering of the heart rending plight.

Table 2.3: Afflictions and Capability

	Catastrophes	Affliction			Capability
	Sunray/Drough	Alarming	sunray	devastate	There are 45 Tube-Wells in
t		cultivated crops	•		Paba Upazila.
		Newborn ch	nild, crippl	e, pregnant	One Health Complex and
		women and age	d person h	ave to face	seven Sub-centers of Health are
		problem.			situated in the Upazila.
		Fish resourc	es face risk	ζ.	
		Scarcity of	drinking w	ater comes	

Catastrophes	Affliction	Capability
•	ahead.	,
	Hindrance comes into	
	Communication system	
Inundation	Due to inundation Crops and	There are two School and
	other resources become damage.	Shelter in Paba Upazila.
	Distraction creates into	16' High embankment
	communication.	There 3 sluice Gate and 173
	Graveyard become submersed.	Culvert are available in Paba.
	Newborn child, cripple, pregnant	There are 45% of high Tube-
	women and aged person have to face	well in the location
	problem.	One Health Complex and
	Structure becomes Destroy.	seven Sub- centers of Health are
	Fish resources become risky.	situated in the Upazila.
	Scarcity of potable water and	Govt, Departments and NGO
	victuals come ahead	come ahead to fetch off.
Kal-Baishakhi	Crops fall into damage.	178 km. places have
Storm	Communication system becomes	forested.
Storm	risky.	One Health Complex and
	Hindrances come into human	seven Sub- centers of Health are
	resources.	situated in the Upazila
	Structure becomes damaged.	Situated in the Opuzita
	Damages occurred to Fisheries	
	and animals	
	Newborn child, cripple, pregnant	
	women and aged person have to face	
	problem.	
Erosion of	Crops fall into damage.	There are 16 km.
river	Communication system becomes	embankments in Paba.
	risky.	
	Hindrances come into human	
	resources.	
	Structure becomes damaged.	
	Damages occurred to Fisheries	
	and animals	
Layer of	Hindrances occur into cultivation	There are 2096 ponds in
Water.	of crops.	Paba Upazila.
	Hindrances come into human	
	resources	
	Damages occur to Fisheries and	
	animals	
Temperature	Due to inundation Crops and	Forestation has ceated in
p	other resources become damage.	178 km land.
	Diseases of Petulance spreads	There are 45 Tube-wells in
i e		
	_	
	Newborn child, cripple, pregnant	the Upazila
	Newborn child, cripple, pregnant women and aged person have to face	the Upazila One Health Complex and
	Newborn child, cripple, pregnant women and aged person have to face problem.	the Upazila One Health Complex and seven Sub- centers of Health are
	Newborn child, cripple, pregnant women and aged person have to face	the Upazila One Health Complex and

Catastrophes	Affliction			Capability
Arsenic	Human	resources	become	Arsenic occupied tube-wells
	damage.			have indicated by red sign.
	Create	various disea	ases and	Treatment of Patient, caused
	potable water	becomes ban.		by Arsenic, has assured.

2.5 The most affliction place

For geographical position Paba Upazila is the most affliction place. In dry season all sort land become unusable. Almost tree, animal fish farm and crops land become damage. Some time have to face horrific white squall which destroy all sort of livestock.. Erosion of river in rainy season becomes horrific threat.

Table 2.4: Affliction place, Causes, distressed people.

Afflictio	Qnty. Of		
n	Most Affliction place	Causes of affliction	wretched people.
Sunray	Horipur, Borgashi, Darsanpara, Nowhata Municipality, Hojripara	*Scarcity of potable water. *May be have to face various diseases. *Obstruction of Cultivation crops appear. * Lack of water production of crops becomes decrease.	10000- 12200 families.
Inundati on	Horipur,Borgashi,Darsanp ara, Katakhali Municipality Hojripara,Horipur	* Lack of embankment in the risky place. * Building up houses on a low land. * Unsustainable structure. * Lack of sanitary latrine.	5700- 6000 Families.
Kal- Baishakhi storm	Horipur,Borgashi,Darsanp ara, Katakhali Municipality Hojripara, Horian	* Unsustainable structure and unplanned houses. * Want of disaster unsustainable formation. * Devastation of forest.	
Erosion of river	Horipur, ,Katakhali Municipality Hojripara, ,Horian	*Houses build up nearer to river and low land. * Unsustainable houses building up * Breaking of embankment. * Deflate of cannel. * Treeless embankment beside the rivers or roads	4000-5000 Families.

Afflictio n	Most Affliction place	Causes of affliction	Qnty. Of wretched people.
Layer of	Horipur,Borgashi,Darsanp	*Unplanned deep tube-	14000-
Water in the	ara,	well set up.	15000
earth	Hojripara, Horian	*Devastation tree-plant.	Families.
		*Want of reservation	
		plan of water.	
Tempera	Haripur, Haragram,	*Tree-Plant devastation	10000-
ture	Borogachi, Parila, Hujuripara		12000
		* Scarcity of potable	Families
		water	
		* Imminent to face	
		diseases.	
Arsenic	Damkura, Horogram,	*Layer of ground water	800-1000
	Parila, Hujuripara	low down	Families
		*Pervade skin diseases	

2.6 Main Sector of Developmental Plan

Poba Upazila is dependent on crops of cultivation as well as its economic structure. So importance should give to agriculture as well as fisheries, resources of animal's livelihoods and health to relinquish adversity.

Table 2.5: Development sectors and coordination with disaster reducing.

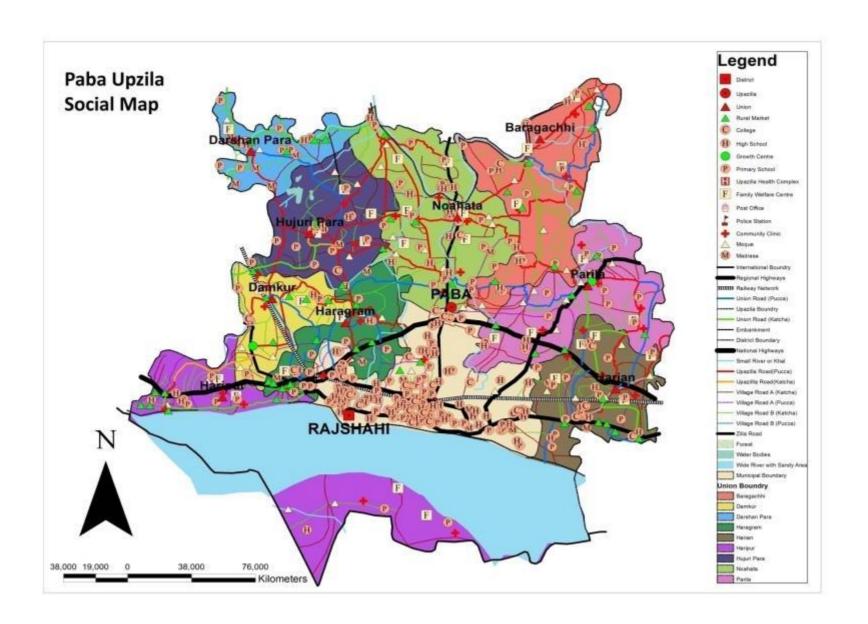
Sectors	Narration largely	Coordination with disaster reducing
Agriculture	*If Poba Upazila face inundation like which happened in 1988 then other unions and Municipality probably should have to face devastation. * If the Kal-Baishakhi storm hit the territory then almost 25759 Accor of paddy land will be devastated. * Almost people should have to face heart rending plight of disaster. * Effect of lower layer of water will be alarming hindrance in agriculture sector. * Arsenic is one kind of ban in the locality. So, should have to take action to protect. Otherwise agriculture as well as health of human being will face mournful situation.	*Sustainable crops for marshland would have to supply as well as should have to take initiative for reserving rain water to grow seedling of crops. * Embankments will have to build up to protect flood water. * Will have to take action to deflect water from the location.
Fish resource	* Fish cultivation in almost ponds will be stopped which is the sources of earning of the local people.	
Animal resource	Animal which is an important resource in the location will be devastated.	Mud made Kellah may be a helpful place for protect the animal resource.

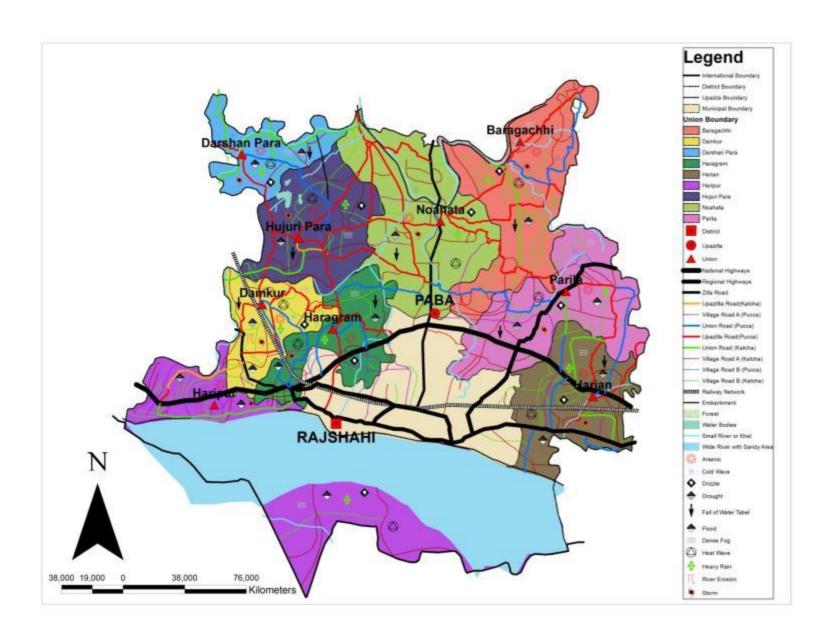
Sectors	Narration largely	Coordination with disaster reducing
Health sector	Water becomes polluted in the time of inundation. So, that water will create heartrending plight for the location and people will have to face various diseases and almost child will pass away.	
Livelihood	The people of the locality alive depending on various livelihood cattle rearing, cultivation of crops fisheries and so on. They will lose their all kinds of livelihood at the time of climatic adversity.	*Should have to take initiative to create a way for earning livelihood at the of calamity. * Needed to build up capacity to earn sustainable livelihood.
Tree	At the time of disaster all kinds of trees will be devastated by its horrific effects and that will bring natural problem which create climatic action.	Sustainable tree which is the main protector of climatic disaster is needed to do plantation in the locality.
Living houses.	Almost houses in the locality are mud made. So in the time of inundation or disaster have to face devastation of damage.	*It is needed to build up house on the high land or place. * Should have take initiative to build up sustainable house.
Structure	There are many Mosque, Schools, Mondir Madrasa, Shelter, Health Centre, Govt, Office and Hospital in the Upazila. At the time of disaster those may be fall into risk which might be causes for destroy. Needed to be carefulness in that aspect	In that position it is needed to throw look to the structure
Sanitation	Almost latrines are mud made and situated in the low land beside the houses. In the time of disaster or inundation all latrines drown under water. Then people have to excrete in the unsaved places and those in time become the causes of various diseases.	To face climatic effect it is needed to build up sustainable latrine which will not destroy in disaster.

2.7 Social Map

Social Map was prepared as per conversation with the local people and organization and that has indicated all important places, atmosphere of the of the location, Roads and communication, culvert, bridges, houses, Govt. and Non Govt. Organization, Hat Bazzar, Play Ground, praying places and so on.

2.8 Map of Disaster and Risk. That Map has prepared by following the narration about disaster of the local people. What kind of disaster has to face have indicated in the map.





2.9 Seasonal catastrophe Calendar

People of the Paba Upazila have to face various hindrances of lives in the year. It is storm, inundation, sunray, effect of drought, scarcity of water in dry season and etc. As per narration of the local people that has prepared.

Table 2.6: Monthly calendar of catastrophe.

catastrop							S	Season							
he	Apr	May	June	Jul	Aug		Sep	Oct	Nov	Dec	Jan		Feb	Mar	
He	Boi	Joi	Ash	1 5	Srab	Vad	Ash	Kar	Augr	P	ous	Mag	g Fal	Cho	oi
Sunray															
Erosion															
Arsanic															
Draught															
Kal-															
Baishakhi															
Tempe															
ruture															
Water									·						
Layer				_											

Source: Field Trip, 2014

How many days or months catastrophe be available in the location with its horrific effects has marked.

Draught: It prevails from the month of March to June in every year and the aftermath of its has indicated.

Inundation: Due to inundation what mournful plight be create has indicated in that journal Erosion of River: Effect of erosion has indicated in the journal.

Layer of Water: Layer of Water has been indicated by the local people as the most problem. It effects on lives and cultivation as well as atmosphere.

Temperature: Temperature is a great problem. Aftermath of temperature bring various problem which have narrated in the grape.

2.10 Calendar of livelihood of the year.

Though almost denizen of the location is dependent on paddy cultivation and other agriculture, yet a large numbers of people are dependent on other sources like fish, laborer, carpenter and so on.

Table 2.7: Calendar of livelihood.

Source of	Season												
livelihood	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan		Feb	Mar
nvennood	Boi	Joi	Ash	Srab	Vad	Ash	Kar	Augr	Pou	S .	Mag	Fal	Choi
Cultivator													
Labor of													
cultivation													
Uncultivat													
e labor		_											
Fisher													
cultivator													

Source of						Se	ason					
livelihood	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
nvennood	Boi	Joi	Ash	Srab	Vad	Ash	Kar	Augr	Pou	s Mag	Fal	Choi
Fisherman												
Mango												
fermar												
Boatman												
Business												
man	They were remain very busy during the religious festivals.											
Service	Round tha year they were remain very busy											
holder	Koun	u illa ye	ai tiley v	were rer	mann ver	y busy						
Driver of												
Nosimon/												
Karimon											_	
Handicrupt												
ures												
Wood												
carpentar												
Mason												

2.11 Calendar of Livelihood and Lives

Those has been indicated below

Table 2.8: Calendar of livelihood and lives

		Disaster											
livelihood	Sunray	Inundation	Layer of Water	Erosion of river	Coldness	Fogginess	Drought	Kal Baishakhi Storm					
Cultivation	>	V	\	\	\	\	V	\					
Fish	>	V	\	\	\	\	V						
Labourer	>	✓		\searrow	✓	✓	\searrow						
Businessman	>	\checkmark			>	\		\checkmark					

Source: Field Trip, 2014

2.11: Sector Wise Disadvantage and Risk

As per discussion with the local person's disadvantages and risk has been indicated in the table.

Table 2.9: Sectorwise Life and Livelihood Related Vulnerability

14010 2171 20	ator wise the and thremmood Related value as an in-									
Disaster	sdo	es	tle	Fish reasour ces	Houses	spr	Bridge	Educati onal Institut	Health	Shelter centre
	Crops	Trees	Cattle	Fish reasc ces	ЮН	Roads	Bri	Ectu onal Insti	Health	Shelte centre
Inundation	>	\searrow	\searrow	\	>	>	>	>	>	K
Erosion of										
river	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark		\checkmark		\checkmark
Sunray	>	>	>	>					>	
Kal										
Baishakhi	\	\searrow	\searrow		S			\searrow	\searrow	
Fifa			V						>	
Layer of	<	\	\checkmark	<					>	

Disaster	Crops	Trees	Cattle	Fish reasour ces	Houses	Roads	Bridge	Educati onal Institut	Health	Shelter centre
Water										
Temperatur e	\triangleright	V	V	\triangleright		\triangleright			\checkmark	
Arsenic	\checkmark	>	>	√						

2.13: Climate Change and Its Probable Effect

The Subject has been indicated in the table.

Table 2.10: Sector wise probable effect of disaster

Catastroph	Disaster	Narration of risk						
e	Sector	2 (11.2 11.2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
	Cultivation	Due to sunray cultivation of various crops cannot be done. As a result scarcity of needs comes ahead as a great problem						
a a	Fish	Fish farm have to face water scarcity and that becomes the hindrance to do.						
Sunray	Cattle	Sunray destroy grass, the main foods of cattle.						
	Water supply	Water for cattle and household activities cannot be supplied due to water scarcity.						
	Health	Scarcity of water and other natural effect may be ascribed on human being that brings hale health hazards.						
	Agriculture	Agricultural activities cannot be done due to over flow of water which happened in the year 1998 and 2004						
	Houses	Houses go under water or damage. People have to take shelter on the high place losing their livestock.						
	Structure	Almost educational institutes go under water. Children or student cannot attend in the school. Not only that various institutes and shelter, health clinic, and so on become damage.						
Inundation	Communicati on	Communication with other place not possible.						
	Fish	Fish go out for over flow of water and it becomes the ban of cultivators.						
	Cattle	Cattle cannot move as well as have to face scarcity of food and other things						
	Trees	Over flow of water or inundation devastate trees or forest.						
	Nursery	Plant of nursery cannot grow.						
	Health	At the time of inundation people have to face various						
		water born diseases. They cannot move to Doctor for taking care of health.						
Temperatu	Agriculture	Temperature becomes the hindrance of agriculture						
re		sector.						

Catastroph	Disaster	Narration of risk						
e	Sector							
	Public Health	People of aged or child have to various problems.						
		Sometimes they attacked by various diseases.						
	Agricultyre	Crops of field be damage						
77. 1	House	All kinds of mud made houses stay in risk.						
Kal-	Structure	Structure may be damaged						
Baishakhi	Cattle	Cattle may be died.						
Storm	Public Health	People of aged or child have to various problems.						
		Sometimes they attacked by various diseases						
	Agriculture	Agriculture sector have to face various problems.						
	Structure	Structure may be damaged						
Erosion of	Communicati	Communication with other place not possible						
river.	on							
	House	Houses fall in risk						
	Cattle	Cattle may be died						
	Public Health	Public have to face various diseases by the effect of						
Arsenic		Arsenic						
Arsenic	Trees	As per scientific analysis it is cited that effect of						
		Arsenic sometimes fall on the trees.						
	Agriculture.	Causes of layer of water agricultural activities cannot						
		be performed smoothly. This is a great problem in the						
Layer of		location						
Water	Trees	Scarcity of ground water devastates the tree						
	Public Health	Local people have to face scarcity of potable water						
		which is the living sources on the earth.						

Chapter Three

Disaster Risk Reduction

3.1. Identification of Risk Factors

Table3.1: Identification of Risk Factors in Paba upazila

Narration of risk		Causes	
	Preliminary	Medium	Longterm
People have to face scarcity of victuals	*Lack of irrigation system.	*The poor cultivators	* Lack of excavation of cannels .
losing all sorts of livestock and livelihood.	*Due to extreme sunray and	Cannot bear the	* Due to filling of river
Effect of sunray in Poba Upazila is a	temperature.	expenditure of irrigation	
horrific and that may devastate all.		* Want of shallow and	*Down fall of the Layer of water
		deep /tube-well	
		* Small scale forestation	
		* Lack of water in	
		cannels.	
Al\most family of the location would be	Due to over flow of water	-Build up houses on low	Lack initiative of Government for
homeless and distress for over flow of		land	building up sustainable house.
water causes of embankment demerging. If		-Un planned house	
the disasters appear like the year 1998 that		building up	
would be a horrific plight in the location.			
Losing all sort of fishes due to dryness of	-Deficiency of rain fall.	Lack of alternative way to	Lack of awareness of Local
ponds and marshland people will be	-Want of reservation water	reserve water.	Governance
distressed. Earning sources will be	in pond.	-Due to dryness of pond	*Lack of necessary budget.
decreased.	-	and cannels	
		-Want of trees	
In the month from Ashar to Vedra (Bengali		Filling up of cannels	Lack of Government initiative.
month) over flow of water submersed	extraction water.		

overall land of the territory. As a result people have to face terrible plight.	* Heavy downpour		
Due to extreme sunray the moving places of cattle becomes unmovable and deficiencies of grass becomes ban to destroy cattle. Not only that but also people have to face various diseases.	Lack of awareness	Lack of initiative of cattle treatment	Lack treatment centre of cattle.
Inundation can devastate all sort of resources, as a result people will be distressed. Scarcity of victuals will be part and parcel of their daily lives.	*Over rain fall. *Damaging of embankment *Causes the opening of Farrakka embankment. * Effect of climate	*Lack of extraction system of water. *Lack of sluice gate> *Filling up cannels	*Lack of proper initiative of governance. *Lack of drainage system
Sustained sunray will destroy water sources as well as water layer will go more below. Scarcity of water will be causes of more deadly diseases.	*Scarcity of rain fall and dryness * Want of reservation system of water.	*Want of deep tube-well. *Want of trees.	*Lack of awareness of people. * Population increasing
Due to inundation all educational institutes go under water and student cannot attend in the school. Business of all kinds will be damage	*Due to over down pour. *Lack of extraction system of water *	*Lack of extraction water system. *Causes of cannel filling	Lack of initiative to excavate of filling cannels and ponds
Erosion of river is a great problem in the Upazila. All sort of trees and house go under water by the effect of erosion and people become distress.	Stream of water is the main cause.	Lack of deepness of river	Lack of carefulness

Source: Field Trip, 2014

3.2. Identification of Ways of Risk Reduction

Table 3.2 Identification of Ways of Risk Reduction in Paba upazila

Narration of risk		Probable way of risk red	lucing
	Preliminary	Medium	Longterm
Sunray destroys all sort of trees and	*To run irrigation system	* Reduce cost of	* Needed Govt. Initiative.
other live saving sources which caused the	* For the rain needed	agricultural materials.	*Needed materials supply to
dearth in the Upazila	forestation	*Tree plantation	cultivators through low price
	* Needed water reservation	*Excavation cannels	
	* Needed deep Tube-well		
	set up		
Over flow of water becomes the cause	*To build up embankment.	Building up houses on high	To needed to follow the rules of Govt.
of devastation house and other goods.		place	For build up house
Lack of water becomes the ban to	*Needed to reserve water	* Needed to find out	Needed Govt. Initiative to prevent the
destroy fish farm. As a result people have to	in the pond or fish farm	alternative way to reserve	problem
face scarcity of victuals.		water.	
Due to heavy down pour in rainy	Needed deplete of water.	Needed excavation cannels	Needed to plantation
season become the causes of inundation.			
Extreme sunray becomes the ban for	Needed to create awareness	Needed animals treatment	Needed to build up animals hospital
various diseases.	among the people.		
Extreme sunray becomes the ban for	Needed to create awareness	Needed to set up Health	Needed Govt initiative.
scarcity of water as well as diseases. Not be	among the people	centre	
possible to fetch water from tube- well			
Due to inundation all educational	Needed forecast about	Needed to create awareness	Needed to build up embankment and
institutes go under water and student cannot	disaster	among the people as well	Sluice gate.
attend in the school. Business of all kinds		as build up safety place	
will be damage.			

Source: Field Trip, 2014

3.3. NGOs' Development Plan

Table3.3: NGOs' Development Plan

SL	Name of NGO	Activities related to	Benevolent	Quantity of	Period
no	IZA DITTA C	disaster	Approximate	money	1
01	KARITAS	Not direct, but indirectly	1200	Tk.4500	1 to 5 years
		taking initiative to reduce risk of disaster			
02	DD A CW		1200	TI- 2500 10000	D.
02	BRACK	Do	1200	Tk.2500-10000	Do
03	BIKAS	Do	1200)		1 to 5 Years
04	CRS	Do	1200	5000-	1 to 5 Years
05	Tarun Sanga	Do	1200		1 to 5 Years
06	Mohila Songhati Parishad	Do	200		1 to 5 Years
07	Tangamara Mohila Sabuj Sanga	Do	1500	4000	1 to 5 Years
08	Saw Nirvor Karma Sangasta	Do	800	3000 to 5000	1 to 5 Years
09	Sawchetan	Do	800	2500-10000	1 to 5 Years
10	Niskritee	Do	600		1 to 5 Years
11	Basti Unnayan Karma Sangsta	Do	700	Training	1 to 5 Years
12	Seedaipo	Do	600	3000-10000	1 to 5 Years
13	SSDO	Do	400	Training	1 to 5 Years
14	SUVO	Do	1200	Training	1 to 5 Years
15	Prati Bandhi Society	Do	1200	Training	1 to 5 Years
16	Partner	Do	700	Training	1 to 5 Years
17	CMES	Do	600	Training	1 to 5 Years
18	VARK	Do	1200	3000-10000	1 to 5 Years
19	CDO	Do	1200	3000-10000	1 to 5 Years
20	Mukti	Do	700	Training	1 to 5 Years
21	ASHA	Do	600	Training	1 to 5 Years
22	Padkhep Manobik Unnayan Kendra	Do	400	Training	1 to 5 Years
23	Swakarma Seba Sangasta	Do	1200	Training	1 to 5 Years

24	DESKO	Do	1200	Training	1 to 5 Years
25	Ashar Prodip Sangasta	Do	700	Training	1 to 5 Years
26	Desh	Do	600	Training	1 to 5 Years
27	Rural Reconstruction Foundation	Do	1200	Training	1 to 5 Years
28	Sonali Swapna Sangasta	Do	1200	Training	1 to 5 Years
29	Antar	Do	700	Training	1 to 5 Years
30	Bangladesh Jonosasta Unnayan Sangsta	Do	600	Training	1 to 5 Years
31	World Vision	Do	1200	Training	1 to 5 Years
32	Uttara Development Program Society		700	5000	1 to 5 Years
33	Wave Foundation	Do	600	Training	1 to 5 Years
34	Kainonia Women Credit Program	Do	1200	5000	1 to 5 Years
35	Tori Foundation	Do	1200	6000	1 to 5 Years
36	ACD	Do	700	Training	1 to 5 Years
37	Masline Media Centre	Do	600	Training	1 to 5 Years
38	Manob Kallan Parishad	Do	400	Training	1 to 5 Years
39	Protibandhi Swa Nirvor Sangasta	Do	450	Training	1 to 5 Years
40	TDE	Do	800		1 to 5 Years
41	Primary Health Care Organization	Do	750		1 to 5 Years
42	DISA	Do	450		1 to 5 Years
43	MSP	Do	800		1 to 5 Years
			750		1 to 5 Years

Source: Field trip, 2014

3.4. Disaster Management Action Plan

3.4.1. Pre-disaster PreparationTable 3.4: Pre-disaster Management Action Plan

						Who	& How	done ((%)	
SL	Activities	Goal	Possible Budget (taka)	Location	Possible Time of Impleme ntation	Upazila Administration	Community	UP	NGO	Cooperation with Developmental Planning
1	Signal transfer	7 Teams	50,000	Union parisad	feb- March	35	5	30	30	
2	ward level team	85 Teams	140,000	Union parisad	feb- march	35	5	30	30	
3	Identification of information transfer place in local level	70 places	7,000	union, ward village & municipality	feb- march	35	5	30	30	Such activities
4	Flag management development for advance alarm of disaster	7 places	70,000	union, ward village & municipality	feb- march	35	5	30	30	will help to the local people to reduce loss of
5	Transfer of tmporary property	85 Teams	100,000	union, ward village & municipality	feb- march	35	5	30	30	disaster due to pre awareness and for
6	Management of mobile health clinic	7 Teams	80000	Union, municipality	oct-may	35	5	30	30	take initiative
7	Drill arangement	1 in each month	120,000	Union,municipality	feb- march	35	5	30	30	
8	Training opf primary treatment	7 teams	24,000	Union,municipality	feb- march	35	5	30	30	

	Dry food, medicine supply	dry-3 tons	350,000	union, ward village	feb- april				
9		Rice/pulse-5		& municipality		35	5	30	30
		tons							
10	Training of students about	85 school	85,000	Education	feb-april	35	5	30	30
10	disaster			institution		33	3	30	30
	collect the phone no of related	UZDMC,		union parisad &	feb-april				
11	organizations & persons	UDMC 7		upazila		35	5	30	30
11		various donor				33	3	30	30
		organizations							

3.4.2. During Disaster Preparation

Table 3.5 During Disaster Preparation Management Action Plan.

					Who & H	low wi	ll do ((%)	
Program	Target level Probable budget		Where to do	Probable date of impleman tation	Upazila administration	Community	UP	NGO	Cooperation with Developmental Planning
EOC	1	50	Upazila Parisad	Emergenc y period	35	5	30	30	Such activities will help to the
Signal dissemination	Regular (everyday/every hour)	fixed planning	Throught the Union	Do	35	5	30	30	local people to reduce loss of disaster due to
Emergency meeting call during possible upcoming hazards	As required	will be	In every word of all union	Do	35	5	30	30	pre awareness and for take
keeping useable shelter houses	8 groups	get ring	Do	Do	35	5	30	30	initiative
Rescue the victims	According to the population of the	Budget w accoring	Do	Do	35	5	30	30	

Program	Target level	Probable	Where to do	Probable	Who & H	Iow wi	ll do ((%)	Cooperation
	damaged area								
Ensuring health service	Do		Do	Do	35	5	30	30	
Preliminary relief distribution	Do		Do	Do	35	5	30	30	
Bring the people remaining in	Do		Do	Do	35	5	30	30	
the risk zone to the secured place									
Ensure emergency food supply	Do		Do	Do	35	5	30	30	
Ensure emergency water supply	Do		Do	Do	35	5	30	30	

3.4.3 Post Disaster Preparation Table 3.6: Post Disaster Preparation

			D 1 1		Probable	W	ho& F	How Fa	ır	Adjustment
SL	Program	Target level	Probab le budget	Where to do	date of implemant ation	Upazila%	Community%	%dn	% NGO	with Development Plan
1		According to the population of	According to the	UP,Municipality	Immediately after Disaster					Reduce the damage of
	Quickly Rescue	affected area &	Amount		arter Disaster	40	0	30	30	livelihood by
		Amount of damage	of damage							quick rehabilitation
2	First Aid of the wounded	Do		UP,Municipality	Do	40	0	30	30	
3	Dead body Burried & Carcass Management	Do	1	UP,Municipality	Do	40	0	30	30	
4	Compensation Within 72 Hours	Do		UP, Municipality	Do	40	0	30	30	
5	Rehabilitation of the economic hampered	Do		UP,Municipality	Do	40	0	30	30	
6	Debris Cleaning	Do		UP,Municipality	Do	40	0	30	30	
7	Reestablishment of Administration	Do		UP,Municipality	Do	40	0	30	30	
8	Emergency livelihood	Do		UP,Municipality	Do	40	0	30	30	
9	Public welfare	Do		UP, Municipality	Do	40	0	30	30	
10	Road construction & repairing	Do		UP, Municipality	Do	40	0	30	30	
11	Stop Installment	Do		UP,Municipality	Do	40	0	30	30	

3.4.4. Regular Period PreparationTable3.7: Regular Period Preparation Management Action Plan

	.,, regular relieu rieparalie					Who &	How	will d	0(%)	Adjustment
Sl No	Program	Target level	Probable budget	Where to do	Probable date of implementat ion	Upazila administration	Community	UP	OĐN	with Developme nt Plan
		3		Kupakandi darsanapara Union,	December-	20	10	20	50	Such
			 -	kamariya and namopara	April					activities
		2		Hujaripara Union	Do	20	10	20	50	will help
		2	Dudget	Parila Union	Do	20	10	20	50	to the
1	Pond repairing and ridge lifting and digging pond for water conservation management	7	Budget will be fixed according to detail planning and	2 at Haripur Union haladibonaya (West and bagiya), 2 at dobiramolla laid, gahamabonaya (Necropolis and bharabhari) and 2 at tenramarite(maraphela and bagiya)	Do	20	10	20	50	local people to reduce loss of disaster due to pre
		2	volume	Haragrama Union kasiyadanga and aliganja	Do	20	10	20	50	awareness and for
		1		hariyana Union 5 No. ward	Do	20	10	20	50	take
		2		Damkura Union	Do	20	10	20	50	initiative
		7		Baragachi Union	Do	20	10	20	50	
2	Constitution (VM)	1.5	Budget will be fixed	From Basement to be amongst the darsanapara ghosapukur to badhapul	December- April	30	10	20	40	
2	Cannel dredging (KM)	1.5	according to detail	From darsanapara Kupakandi Sluice get to Quddus Master Land	Do	30	10	20	40	
		1.5	planning	From darsanapara Ghoshpukur	Do	30	10	20	40	

Sl No	Program	Target	Probable	Where to do	Probable Who & How will do (%)				o (%)	Adjustment
				Sluice get to Cross Dam Land						
		4		From darsanapara Fulbarighat to Kathaimara Bridg	Do	30	10	20	40	
		10		From Bagshoilo to Sundalpur Bridge	Do	30	10	20	40	
		4		Mollardaing to Hater Bridge at Hujuripara UP	Do	30	10	20	40	
		2		Daingpara Bridge to Ghoshpukur at Hujuripara UP	Do	30	10	20	40	
		4		From Malikpur to Folier bill at Parila UP	Do	30	10	20	40	
		4		From Kalur mor to Pantha para at Parila UP	Do	30	10	20	40	
		6		From Tebariya to Kathalpara at Parila UP	Do	30	10	20	40	
		4		From Jotraban to Damkura Khal	Do	30	10	20	40	
		2		From Tangramari to Khoira Khal ar Haripur UP	Do	30	10	20	40	
		6-7		From Sheikhpara to Talgachi at Borogachi UP	Do	30	10	20	40	
3	Field raising		3-7 lac taka for every field fill up	Atleasr 1 for Eidgah, Graveyard, Play ground in all union and Municipal	December- April			20	40	
4	Construction of shelter house	1	According	Beside the Horian Union parisad building	September- May	30	10	20	40	
5	Construction / Repairing of sluicegate	1	Gov.wage rate	Construction of sluice gate in Hujuripara, Parila, Baragachi, Horogram and Horipur UP	Do	30	10	20	40	
6	Construction of damage resistant house	According to the population of the risk zone	Budget will be fixed according to detail	Char area at Horipur, Horian	Do	60		15	25	

Sl No	Program	Target	Probable	Where to do	Probable	Who &	How	will de	0(%)	Adjustment
7	Raising up of house	Do	planning		Do	60	I	15	25	
Q	Sufficient plantation aroung	Do			Do	20			80	
0	the house			Char Areas		20	-	-	80	
Q	Early cultivation and sowing	Do		Chai Aleas	Do	25	5	30	30	
9	of short durated crops					33	۲	30	30	
10	Trac plantation	Do		On the riverside and mars of Paba	Do	35	5	30	30	
10	Tree plantation			Upazila	טט	33	J	30	30	

Chapter Four Emergency Response

4.1. Emergency Operation Center(EOC)

In any kind of hazard, Emergency Operation Centre serves any type of active intregration. During the disaster period it works 24 hours and data collection, observation, monitoring and asset management. There are an operation room, control room and a communication room in emergency operation centre.

Table4.1:Responsible person of Emergency Operation Center

SL.NO	NAME	DESIGNATION	MOBILE
1	Upzila Nirbahi Officer (UNO)	President	01912872616
2	Upazila Project Implementation Officer	Member	01711192877
2		secretary	
3	Assistant commissioner(Land)	Member	01719222022
4	Upozila health and family planing officer	Member	01711173845
5	UAO	Member	01717125431
6	Upozila livestok oficer	Member	01716407883
7	UFO	Member	01712803012
8	Upozila engineer	Member	01712192926
9	Assistain engineer,BMDA	Member	01712133143
10	UEO	Member	01716193399
11	Upozila social welfare officer	Member	01718620310
12	Upozilla rural development officier	Member	0171404933
13	Upozila food control officer	Member	01711433503
14	Upozila weomen concerning officer	Member	01715272587
15	Upozila co-operative officer	Member	01920528737
16	Upozilla statistic officer	Member	01813745122
17	Sub-assistant engineer in public health	Member	01716206117
18	Upozilla ansar and VDP officer	Member	01912371497
19	Upozila youth development officer	Member	01715040004
20	Upozilla project worker	Member	01711484161
21	Upozilla accountent officer	Member	01917063298
22	Upozilla election officer	Member	01733259345
23	Upozila secoundary education officer	Member	01917063298
24	Upozilla family planing officer	Member	01718783498
25	Officer incharge,Poba tana	Member	01713373800

4.1.1. Emergency Control Room Management

- Emergency control room has to be established by Upazila/ Union Parishad Office immediately after disaster. It has to be ensured that there are at least 3/4 volunteers and village policemen always in emergency control room.
- Responsible persons of zilla/ Upazila are to be in charge of control room. Three groups each containing three volunteers are to guide the control room alternatively or 24 hours.
- communication with divisional Constant/ zilla sadar is to maintained.
- There must be a register in the control room. Persons acting in any sedule, data and information received by and sent to any persons in any specific time are to be written register specifically in that.
- Positions of zilla/ Upazilas, doads, canals, dams are to be marked on a map hung on the wall of control room so that it may help in identifying the most damaged ares at postdisaster period.

4.2. Planning for Hazard Period

Table4.2: Planning for Hazard Period

	F.Z.F Iaillillig 101 11az	ara i ciioa					
Sl. no	Activity	Target level	When	Who	Who to Help	How	Contact
1	Preparing	Volunteer groups should be formed	From February	Union	Union Disaster	Through	UzDMC &
	volunteers	under the guidance of UP members at	to March	Pairsad	Management	Emergency	UDMC
		union level		Chairman	Committee	Control Room	
2	Warning	Every UP member is to personally	From February	volunteers	Volunteer	Through	UzDMC &
	Announcement	ensure the matter of warning	to March		groups and	Emergency	UDMC
		announcement in his/ her ward.			Rural Police	Control Room	
3	Preparing Boats/	Sufficient numbers of boats, motor	From February	Local Govt.	Volunteer	Through	UzDMC &
	cars/ vans	vessels, vans are to be preserved to	to March		groups	Emergency	UDMC
		be used in emergency.				Control Room	
4	Rescue Activity	preparing sufficient equipments and	From February	Local Govt.	Volunteer	Through	UzDMC &
	·	human resource for rescue activity	to March		groups	Emergency	UDMC
		assessing accurate loss of disaster				Control Room	
5	First Aid/ health/	Organizing necessary treatment/	From	Local Govt.	Volunteer	Through	UzDMC &
	dead	medicines/ health services assessing	February to		groups	Emergency	UDMC
	management	accurate loss of disaster	March			Control Room	
6	Collecting and	Dry food like flatten rice, puffed rice	From February	Local Govt.	Volunteer	Through	UzDMC &
	Preparing Dry	etc. is to be collected from local	to March		groups, Health	Emergency	UDMC
	Food and Life-	markets for instant distribution.			assistant,	Control Room	
	saving Medicine				Family		
					welfare		
					assistant		
7	Treatment/	Collecting necessary medicines	From February	Local Govt.	Volunteer	Through	UzDMC &
	Vaccine for		to March		groups,	Emergency	UDMC
	Cattle				Upazila	Control Room	
					veterinary		
					hospital and		

Sl. no	Activity	Target level	When	Who	Who to Help	How	Contact
					Health centre		
8	Shelter Management	To keep the shelter house usable maintaining necessary repairing before the disaster prone season		Local Govt.	Volunteer groups	Through Emergency Control Room	UzDMC & UDMC
9	Relief Activity	UP chairman has to supervise the relief activity of different relief and rehabilitation assisting groups.		UP Chairman	Volunteer groups	Through Emergency Control Room	UzDMC & UDMC
10	Arranging Rehearsals	Arranging continual rehearsals in cyclone/ flood prone areas	From September to May	UP	Village people and Volunteer groups	UP	UzDMC & UDMC
11	Emergency Control Room Management	Emergency control room has to be established by Upazila/ Union Parishad Office immediately after disaster. It has to be ensured that there are at least 3/4 volunteers and village policemen always in emergency control room.		Local Govt.	Volunteer groups	UP	UzDMC & UDMC

Source:Field trip, 2014

4.2.1. Preparing volunteers

- Forming volunteer groups under the guidance of UP members at ward level
- Spreading announcement and information to every villages through volunteers
- Distributing duties signals, data collection, rescue, evacuation, shelter management and arranging training on disaster risk reduction among all volunteers

4.2.2. Warning Announcement

- Every UP member is to personally ensure the matter of warning announcement in his/her ward.
- Once in every hour, mike announcements have to be arranged up to 5 no. signals transmitted by radio, television. As soon as the great danger signal (8-9 no. signals) is announced by radio and television, mike announcement and school bell ringing have to be done constantly as danger alarm.

4.2.3. Evacuation Activity

- Every UP member is to start evacuating people to safer places with the help of volunteer groups of that ward as soon as it is announced to evacuate the people of risky areas by radio, television.
- As soon as 8 no. great danger signal is declared, mike announcements and volunteer activities have to be ensured toward every home to direct the vulnerable people to safe places. The vulnerable people must be well-informed of the shelter they belong to.

4.2.4. Rescue and First Aid

- The people of extreme risk zone are to be under the supervision of members of Zilla/ Upazila disaster management committee.
- A fixed deposit has to be run by Zilla/ Upazila disaster management committee for rescue management.
- Temporary health camps have to be set up and directed.
- The sick, the old, children and pregnant women are to be sent toward hospitals immediately.
- Every UP member together with volunteers is in charge of dead body management as well as burial of cattle.

4.2.5. Shelter Management

- To keep the shelter house usable maintaining necessary repairing before the disaster prone season
- To fix the specific shelters to be chosen by specific people in emergency
- To ensure complete safety of women, children and disable persons (in taking shelter)
- To ensure safe water supply and other services
- To help people carry their necessary assets (cattle, poultry, food etc.) to safe places

4.2.6. Preparing Boats

- Zill/ Upazila disaster management committee is to keep the account of motor-boats and settle on which ones are to be used in emergency.
- The owners of boats are to help them in this task.
- The names and mobile numbers of owners of boats are to be preserved.

4.2.7. Measuring the Damage and Need of Disaster and Sending Report

- Immediately after the disaster, 'SOS Form' is to be sent within 24 hours and 'D Form' is to be sent within 7 days to the UP chairman.
- With the help of UP secretary, UP chairman is to collect the reports of every ward and send those to the chairman of Upazila disaster management committee within the next 12 hours.

4.2.8. Relief Activity

- UP chairman has to supervise the relief activity of different relief and rehabilitation assisting groups.
- If any other relief distributor groups come from outside, it is ordered to keep a record of the amount and category of relief and rehabilitation materials and to inform control room of the groups and their assigned areas.
- Union disaster management committee is to fix and distribute the amount/ number of relief materials among people based on vulnerability and damage at ward level.

4.2.9. Collecting and Preparing Dry Food and Life-saving Medicine

- Dry food like flatten rice, puffed rice etc. is to be collected from local markets for instant distribution.
- Food materials like rice, peas, flour, oil etc. and house-building materials like tin, nylon string etc. are to be collected from local markets.
- With the help of health assistant and family planning assistant, all necessary medicines are to be listed and collected at union level.
- Union chairman is to be in charge of assimilation of necessary transportations like rickshaws, taxies and other vehicles to transport relief materials as well as relief workers.

4.2.10. Treatment/ Vaccine for Livestock

- Collecting necessary medicines from Upazila veterinary hospital and preserving those in UP building or health center according to situations
- Arranging necessary trainings on veterinary treatment for the members of union disaster management committee
- Relating experienced persons to veterinary treatment if it is necessary in disaster period

4.2.11. Arranging Rehearsals

- Arranging rehearsals on signal/ warning announcement, evacuation, rescue and primary relief management
- Arranging continual rehearsals in cyclone/ flood prone areas
- Assessing disaster preparation through rehearsals involving the population in April and September each year
- Mentioning in the rehearsals to take the sick, the disable, pregnant women and children to shelter center
- Executing rehearsals, for teaching people of risky areas, in risky villages instead of UP office.

4.2.12. Emergency Control Room Management

- Emergency control room has to be established by Upazila/ Union Parishad Office immediately after disaster. It has to be ensured that there are at least 3/4 volunteers and village policemen always in emergency control room.
- Union Parishad secretary and responsible persons are to be in charge of emergency control room.

4.2.13. Shelter Centres/ Safe Places

- Places that do not get washed away in flood and lie away from river erosion can be used as shelter centers.
- Selected shelter centers, local schools, colleges, govt. and non-govt., organizations, high roads and dams can be used as shelter centers.

4.3 List of Upazila's safe Place

Table 4.3:List and Description of Safe Places of Upazila

SHALTER CENTER	NAME	NAME OF UNION	CAPACITY	REMARK
	Dorshonpara union complex	Dorshonpara		
	Hogripara union complex	Hogripara		
Haina maniahad	Damkura union complex	Damkura	500 to 600	
Union parishad	Horipur union complex	Horipur	people per	
complex	Haragram union complex	Haragram	union	
	Horian union complex	Horian	complex	
	Damkura union complex	Damkura		
	Parila union complex	Parila		
School cum	Bildarmopur govt. primary school	Dorshonpara	300 member	
shelter	Proshadpara govt. primary school	Dorshonpara	300 member	
Government/non	Poba upozila office complex	Poba	2000-3000 people	
government institution	Poba upozilla health complex	Hogripara	1000-2000 people	
	BADC office	Dorshonpara	700 people	
High road	Amtola corner to near horian upozilla road	Parila and horiana	5000 people	
Embankment	Embankment road near jonakhali river		5000-6000 people	

Source: Field Visit, 2014

Bil Dharmapur Government Primary School

- ☐ Made: Old building of 3 rooms with roof of tin in 1972. Other New Building was made by 4 rooms with concrete roof in 2008-09.
- Last Repairing: No repairing work in both building at first to last.
- \square Building Floor no: This building is 1st floor with 4 rooms and in fronts a sports field.
- ☐ Present using: At present this building use in School.
- ☐ No of Tube well: 1 unusable
- ☐ How many latrine and present condition: 1 latrine. Unused. It used by un-high gin way by water.

Prosadpara Government Primary School

- ☐ Made: 1990 AD
- Building Floor no: This building is 1st floor with 6 rooms and in fronts a sports field.

- ☐ Present using: At present this building use in School.
- □ No of Tube well: 1 unusable and 1 usable. But need repairing.
- How many latrine and present condition: 4 latrines. 1 latrine is use in Teacher and others in Students. It used by un-high gin way by water.

4.4. Formation of Shelter Management Committee

Shelter management is a very significant part of disaster management. Because of lack of proper and suitable management, many shelter centers get useless. Shelter management:

- Saves life and assets during disasters
- Saves livestock during disasters
- Ensures proper use and management of shelter centers

Shelter Management Committee

- There are 7-9 members in shelter management committee.
- The 7-9 member committee consists of UP chairman/ members, responsible persons, social workers, teachers, NGO staffs, land provider, volunteers etc.
- This committee can act as this management committee according to approval of the denizens.
- Half of the committee members have to be females.
- This committee fixes the responsibilities of shelter management.
- It performs the complete supervision and management of shelter center with the help of the denizens.
- It arranges meetings, keeps records of decisions and fixes responsibilities and deadlines for implementation of those decisions.
- The list of shelter management committee is to be attached to Disaster Management Plan.

The places to be used as shelter centers:

- Selected shelter centers
- Local schools, colleges
- Govt. and non-govt. organization
- High roads and dams

Things to be noticed in shelter center are:

- Preserving tent/ polyether/ ORS/ filter/ necessary medicines (Paracetamol, Flagil etc.)/ water purifying tablets/ bleaching powder etc. in shelter centers
- Measures for drinking water and cooking
- Sanitation system (male-female specified)
- Bathing place (male-female specified)
- Keeping clean and waste free
- Safety
- Light
- Hygiene
- Registration of protected people, enlisting and storing of their reserved assets and returning those properly while discharging
- Distributing duties among particular staffs and volunteers for shelter management
- Managing food and treatment for the protected
- Special care for pregnant women, the old and the disable

Use of Shelter Center:

- Shelter centers are mainly used for safe shelter for vulnerable people during disasters.
- Shelter centers can be used in community development activities except disaster period.
- It can also be used as primary ailment center.
- It can be used as school and education center for elderly people.
- It can be used as wireless station.

Shelter Center Management

- Every shelter center should be properly supervised.
- Local steps should be taken to protect the shelter centers from being ruined.
- Plantation should be maintained surrounding shelter centers in a planned way.
- Shelter center should be locked except disaster period.
- Shelter Management committee should be formed according to guideline.
- The list of Shelter Management committee is to be attached to Disaster Management Committee.

Table 4.4: List and description of Upazila Shelter Place

Shelter	Name of	Shelter	Respon	nsible	Mobile	Comme
Center	Center		person			nt
School cum	BilDharmaj	our	Al-Haj	Md.	01737665	
Shelter	Government	Primary	Abul Kala	m Azad	885	
	School					
	Polasi	Fotapur	Md.	Rofikul	01714910	
	Government	Primary	Islam		033	
	School					
Government/	Paba	Upazila	Md.	Aminul	01712279	
Non-	Building		Haq		017	
Government						
Organization						
Elevated	Embankme	nt road	Forad 1	Reja	0721-	
Road	of Paba and No	uhata			761061	
Embankment	River emb	ankment	Sudhir	Sarker	01711379	
	road of Padma				181	

Source: Field trip, 2014

4.5. List of Resources of Upazila (usable during disaster)

Table 4.5: List of Resources at the Upazila (usable during disaster)

Stucture/ Assets	Number	Responsibe Persons	Brief Description
Storage	3		Total Capacity 500 Metric ton
Shelter House	2		
	45	Md. Piar Ali	Use for delivering
Boat	14	Md. Aliur Rahoman	Use for delivering and fishing
Car	945 Rikshaw, 190 Van, 160 Eace Bike, 965 Nosimon	Md. Nurul Islam	Member in owner Somity

Source: Field Trip, 2014

4.6. Finance

The income of Union Parishad arises from collecting local tax, approving lease for hat/ bazaars and canals/ swamps and approving trade licenses for business and trade. But, this authority has been taken away from Union Parishad. As a result, its income sources have been reduced. Nonetheless, Govt. is presently allowing Union Parishad 1% of land registration fee that UP used to have the whole of it before. Moreover, after the salaries of gram polices and UP secretary are paid with this money, the rest is seldom sent to UP. Very recently, govt. has taken measures to allow 4/5 lakes taka per year directly to UP.

Income of Parishad

There must be a deposit for every Union Prishad.

- (a) Local Sources (union tax, rate & fees)
 - Tax on yearly fiscal value of household
 - Tax on business, trade and profession (trade license)
 - Licenses and Permit fees issued by UP
 - Lease money
 - Hat/ bazaar leasing
 - o Moorage (ghat) leasing
 - o Public pond leasing
 - o Khoarr (cattle detention place) leasing
 - Tax on vehicles except motor cars
 - Income from properties
 - General deposit of UP
- (b) Govt. donation
 - Development sector
 - Agriculture
 - Health and sanitation
 - o Road construction and repairing
 - o Development assisting deposit (LGSP)
 - Adjustment
 - O Honorary bills for chairman and members
 - Salaries and bills for secretary and other staffs
 - Others
 - o 1% of and registration tax
- (c) Local govt. sources
 - Money allowed by Upazila Parishad
 - o Money allowed by Zilla Parishad
- (d) Non-govt. development organization
 - o NGOs
 - o CDMP

Various donor organizations and non- govt. development organizations are financing directly to UP to strengthen local govt. A better achievement depends on efficiency, sincerity and, most importantly, good-governance of Union Parishad. UP is supposed to manage the finance considering all the hazards and promoting those that are the major obstacles for the

development of the union. UP should prepare, finance and implement every development project relating disaster risk reduction to it.

4.7. Updating and Analyzing Work Plan

2 follw-up committees are to be structured to devise plan.

- 1. Plan Follow-up Committee
- 2. Plan Implementation and Management Committee

Actionplan Follow-up Committee

5 members plan preparation and presentation committee

Table4.6: Plan Follow-up Committee contain five member

S. L.	Name	Designation	Mobile number
1	Upazila Chairman	Chairman	01713991355
2	Upazila Project Implementation Officer	Secretary	01711192877
3	Will be select by Chairman	NGO Representative	
4	Upazila Vice Chairman	General Member	01712712037
5	Upazila Women Vice Chairman	General Member	01713373800

Source: Paba Upazila Disaster Management Committee, 2014

Responsibilities of the committee:

- Assessing rough plan and devising final plan
- Sector-wise planning activity e.g. consulting Deputy Assistant Agriculture Officer for planning on agriculture, livestock and fishery
- Making the plan pragmatic signifying specific tasks and finance

Plan Implementation and Management Committee

Table 4.7: 7-Member Plan Implementation and Management Committee

S. L.	Name	Designation	Mobile number
1	UNO	Chairman	01912872616
2	Upazila Project Implementation Officer	Secretary	01711192877
3	Upazila Women Affairs Officer	Female Member	01715272587
4	Officer In-charge, Bhagha Thana	Govt. Representative	01713373800
5	Selected by Chairman	NGO Representative	01710061686
6	Related Union/Pourashava/Mayor	Member	
7	Respective Union's Tag Officer	Member	

Source: Paba Upazila Disaster Management Committee, 2014

Responsibilities of the committee:

- Every year in April/ May, present work plan must be updated through complete assessment, essential modification and addition. Committee member secretary is personally liable for taking the steps. All necessary amendments must be implemented assessing the flaws of current plan immediately after any disaster.
- Every year in April/ May, disaster management rehearsal must be celebrated by the direction of Management Bureau on national disaster day.
- Disaster management plan has to be approved by District Disaster Management Committee.
- Plan implementation should be supervised.
- Communication with different organization should be maintained.

Chapter Five Rescue and Rehabilitation Plan

5.1 Damage Assessment

Table 5.1: Sector wise Damage Assessment in Upazila

	r wise Damage Assessment in Opaziia
Sectors	Description
Agriculture	Owing to climate change, a flood like 1988's may ruin the agricultural products of 14746 acres of cultivable land. River erosion may cause financial loss for 33683 families destroying sugarcane and paddy lands of 5 unions. Drought, as occured in 2001, may ruin the agricultural products of approximately 16454 hectors and cause severe financial damage for 43996 families. As a result of climate change, a sudden attack of seasonal storm may destroy the agricultural products of 39063 hectors that consequently may create financial loss for 175984 people of 43996 households.
Fisheries	Severe drought may ruin the fish cultivation in 3827 ponds that leads to financial loss and lack of protein supply in Paba Upazila. 1543 cultivable ponds may get washed away by a flood as occured in 1988. As a result, it is obvious to bring about a scarcity of food, nutrition and protein.
Plantation	As a result of climate change, a storm like 2003's may smash down many a tree in Paba Upazila. It is a great hamper for environmental balance. River erusion also hampers environmental balance grasping many trees into the river.
Health	A flood like 1988's may creat lack of safe place for 60% pregnant women during the flood in Paba Upazila. It may even cause death because of vulnerable communication. Besides, different epidemic may bring out. Drought like 2001's may cause different kinds of skin diseses and other problems among 50% of the population of Paba Upazila.
Livelihood	Flood, drought, river erusion, heavy mist, low rainfall etc. seriously affect agriculture, fisheries, livestoct and most importantly human resource. 38% people of Paba Upazila may become workless because of these hazards. As a result, it throws a terrible challenge towards the economic condition of Paba Upazila.
Water	Heavy drought and low level of water may cause a horrible scarcity of water in 5 unions of Paba Upazila. As a result damage of 12344 hectors of cultivable land may cause financial loss of almost 33683 families. Besides, different diseases like skin disease can spread all over and agriculture, fisheries and livestock can be severely spoiled.
Infrastructure	A sudden storm like 2003's may smash down 25% of stuctures including academic and religious institutions, which may result in unexpected disruption of education. 60% of earthen houses can be devastated by the storm that leads to suffering and economic loss for 120806 people. In five unions, approximately 30 kilometers road and some schools, colleges and other structures also may be devoured by the river. 16% of earthen houses may get submerged in water leading 33684 families to be homeless and economically fallen.

Source: Field Visit, 2014

5.2 Rapid/ Early Recovery

5.2.1 Administrative Restoration

S L	Name	Designation	Contact No
1	UNO	Chairman	01912872
			616
2	Upazila Project Implementation Officer	Member Secretary	01711192
			877
3	Upazila Vice Chairman	Member	01712712
			037
4	OC, Paba Thana	Govt.Representative	01713373800
5	Upazila Women Affairs Officer	Women	01914950933
		Representative	
6	Related Union/Pourashava/Mayor	Member	
7	Related Tag Officer	Member	

Source: PabaUpazila Disaster Management Committee, 2014

5.2.2 Wreckage cleaning

Table 5.3: Wreckage cleaning committee in Upazila level

S	Name	Designation	Contact No
\mathbf{L}			
1	UNO	Chairman	01710068
			615
2	Upazila Project Implementation Officer	Member Secretary	01712279
			017
3	Upazila Vice Chairman	Member	01712712
	-		037
4	Upazila Engineer	Govt.Representative	01711314
			769
5	Upazila Women Affairs	Women	01914950
		Representative	933
6	Related Union/Pourashava/Mayor	Member	
7	Respective Union's Tag Officer	Member	

Source: PabaUpazila Disaster Management Committee, 2014

5.2.3 Public Service Resume

Table 5.4 Public Service Resume committee in Upazila level

S L	Name	Designation	Contact No
1	UNO	Chairman	0191287261
			6
2	Upazila Project Implementation	Member Secretary	0171119287
	Officer	-	7
3	Upazila Vice Chairman	Member	0171271203
			7
4	Upazila health and family planning	Govt.Representative	0171117384
	officer		5
5	Upazila Project Officer	Member	01711484161

6	Related Union/Pourashava/Mayor	Member	
7	RelatedTag Officer	Member	

Source: PabaUpazila Disaster Management Committee, 2014

5.2.4 Emergency Livelihood Assistance

Table 5.5 Emergency Livelihood Support committee in upzilla level

S	Name	Designation	Contact No
\mathbf{L}			
1	UNO	Chairman	0191287261
			6
2	Upazila Project Implementation	Member Secretary	0171119287
	Officer	-	7
3	Upazila Vice Chairman	Member	0171271203
			7
4	Upazila Public Health Eingeneer	Govt.Representative	0171117384
			5
5	Upazila Education Officer	Member	0171961324
			1
6	Related Union/Pourashava/Mayor	Member	
7	RelatedTag Officer	Member	

Source: PabaUpazila Disaster Management Committee, 2014

Check List of Emergency Plan Implementation

Checklist

The following 'Table' (checklist) has to be checked out immediately after the broadcast of 5 number danger signal by radio/ television and necessary measures have to be taken.

SL	Subject	Yes/ No
1.	If the selected members of volunteer group assigned for warning	No
	announcement have been ordered to declare the coming hazard	
2.	If the responsible persons/ groups are prepared to resque the people of	No
	vulnerable areas	
3.	If the declaration to keep dry food and dringking water buried under ground	No
	for 2/1 days is announced	
4.	If life jackets for the safety of volunteer groups are provided	No
5.	If the necessary manpower is prepared to keep Union Control Room open	No
	constantly	
6.	If the necessary safety measures for union food storage/ relief storage are	No
	ensured	
7.	Others	Yes

N.B.

- Assessing the checklist, immediate measures should be taken for the flawed sectors.
- It is very necessary to manage life jackets for volunteer groups with union parishad deposit or any other source/ organization.

Checklist

• The following 'Table' (checklist) must be filled and sent to Upazila Nirbahi Officer and District Commissioner discussing in the meeting of Disaster Management Committee within 15th of April/May each year.

. S 1	Subject	
1	If sufficient food is reserved in Union food storage	✓
2	If the children of risk zones have been served with vaccines	✓
3	If the children (1-6) and their mothers are served with vitamins	✓
4	If sufficient amount of oral saline is reserved in UP Clinic/ Hospital	✓
5	If the members of volunteers group are served with annual training	-
6	If there are necessary drugs and first aid equipments for each shelter	-
7	If there is selected village doctor for each shelter	✓
8	If there is tubewell for each shelter	✓
9	If the doors and windows of each shelter are in proper condition	-
0	If the alternative care taker is present in each shelter	-
1 1	If there are separate facilities for women in each shelter	✓
2	If there are selected midwives for the taking care of pregnant women in each shelter	✓
1	If mound shelters are selected for the cattle	-

3		
1	If the member of volunteers group are aware of their assigned	-
4	responsibilities.	
1	If there is sanitation facilities each shelter	✓
5		
1	If the microphones are activated to spread weather announcement and	-
6	danger signals	
1	If the people are made aware to preserved dry food and drinking water for	-
7	at least 2/1 days	
1	Others	-
8		

Annex: 2

Upazila Disaster Management committee

Sl	Name	Designation	Member	Contact
	Name Mil Maldad Hannin	Designation		Contact
1	Md. Mokbul Hossain	Upazila -Chairman	Chairperson	01713991355
2	Rezzakul Islam	UNO	Co-	01912 872616
		II 'I ' CI '	chairperson	0.1=10=1000=
3	S M Ashraful Haque	Upazila vice-Chairman	Memver	01712712037
4	Mrs. Khairunnesa	Upazila Mohila Vice- Chairman	Memver	01935046188
5	Dr. Md. Shamsul Alam	Upazila Health and Family Planning Officer	Memver	01711 189543
6	Md.Saleh Ahmed	Upazila Agriculture Officer	Member	01716 508560
7	SM Mizanur Rahman	Upazila Engineers	Member	01715 772750
8	Dr.Md.Shofikul Islam	Upazila Livestock Officer	Member	01733 157274
9	Md Rofikuzzaman	Food Control Officer	Member	01713 646828
10	Md. Motier Rahman	Officer-in-Charge, badalagachi	Member	01711 303067
11	Md Muktadir Rahman	Upazila Education Officer	Member	01713 723044
12	Md Aorangajeb	Upazila Ansar and VDP officer	Member	01945177911
13	Md Altab Hossain	Upazila Cooperative Officer	Member	01827558283
14	Md.Saied Ali Reza	Upazila Youth Development Officer	Member	01716987131
15	Md.Mukhlesur Rahman	Sub-assistant engineer of public health	Member	01728174045
16	Mrs.Hosne Laila	Upazila Women Affairs Officer	Member	01716279017
17	Md. Mokhlesur Rahman	Upazila Education Officer	Member	01711192877
18	Md Sayed Ali	Upazila Fisheries Officer	Member	01714602346
19	Md. Mokhlesur Rahman	Upazila Education Officer	Member	01746054210
20	Md. Rafiquel Islam	Upazila Rural Development Officer	Member	01715507756
21	Md. Sahadat Hossain Vuiya	AC Land	Member	01712063089
22	Md.Abdul Khalek	UFC	Member	018712076310
23	Md.Abdul Latif	Chairman, Paba, Press club	Member	017225551004
24	Md. Abdul Gafur Sarder	Mayor, Nouhata Pourashava	Member	01711189543
25	Md Miktadir	Mayor, Katakhali Pourashava	Member	01716143064
26	Md. Romjav Ali	Chairman, Darshanpara UP	Member	01714257892
27	Md Golam Mostafa	Chairman, Hujuripara UP	Member	01711578553
28	Md. Sajahan Ali	Chairman,Damkura UP	Member	01715577776
29	Md. Nozrul Islam	Chairman, Haripur UP	Member	01711349295
30	Md. Abul Kalam Azad	Chairman, Horogram UP	Member	01711241509
31	Md. Saiful Bari Vulu	Chairman, Parila UP	Member	01716684533
32	Md. A.Kader	Manager,River & Life,Paba	Member	01945177911
33	Md.Abukkar Siddique	MP Representitive	Member	01827558283
34	Md.Ashraful Islam	MP Representitive	Member	01716987131
35	Md.Ali Dewan	Principal Paba High School	Member	01728174045
36	Md.Shahidul Islam	Chairman,B.Bazar committee	Member	01716279017
37	Md.Aminul Haq	Upazila Project	Member	01711192877
_ ,		Implementation Officer	Secretary	

Source: PabaUpazila Disaster Management Committee, 2014

List of Upazilla Volunteers

1 Md Abdul Hakim Late. Jesar Ali Darshanpara No 01736249785 2 Md Abdul Hakim Late. Jesar Ali Darshanpara No 01736031666 3 Md. Ramjan Ali Late. Hazrat Ali Darshanpara No 01716960698 4 Md. Ramjan Ali Md. Atahar Ali Darshanpara No 01716960698 5 Lal Mohammad Siraz Uddin Darshanpara No 01716960997 6 Md Nazmul Haq Md. Samsul Haq Darshanpara No 0171616249785 6 Md Nadarul Haq Md. Samsul Haq Darshanpara No 01718911442 8 Sahara Banu Md. Mohosin Ali Darshanpara 1,2,3 No 01722920428 9 Johora Khatun Md. Moktar Hosen Darshanpara 1,2,3 No 01722920428 9 Johora Khatun Md. Moktar Hosen Darshanpara 1,2,3 No 01722920428 9 Johora Khatun Md. Adla Ali Parila No 01737521567 11 Md Abdul Kari	C1	NT- ··· ·	Desired to		T	Contoot
2 Md Abdul Hakim Late. Jesar Ali Darshanpara No 01739031262 3 Md. Nazrul Islam Late. Hazrat Ali Darshanpara No 01716960698 4 Md. Ramjan Ali Md. Atahar Ali Darshanpara No 01716960698 5 Lal Mohammad Siraz Uddin Darshanpara No 0175652213 6 Md Nazmul Haq Md. Samsul Haq Darshanpara No 01716162641 7 Mst. Rehana Begum Md. Mohosin Ali Darshanpara 4.5,6 No 01718911442 8 Sahara Banu Md. Mohosin Ali Darshanpara 7.8,9 No 01726190182 9 Johora Khatun Md. Moktar Hosen Darshanpara 7.8,9 No 01726190182 10 Abdul Malek Md. Bad Ali Parila No 01737521567 11 Md Jasim Uddin Late. Anar Uddin Parila No 01719602813 12 Md. Abdul Malek Md. Rahmatullah Parila No 01717968157 13 Md. Tigment Haq <th>Sl</th> <th>Name</th> <th>Designation</th> <th>Member</th> <th>Training</th> <th></th>	Sl	Name	Designation	Member	Training	
3 Md. Nazrul Islam Late. Hazrat Ali Darshanpara No 01716960698 4 Md. Ramjan Ali Md. Atahar Ali Darshanpara No 01715649997 5 Lal Mohammad Siraz Uddin Darshanpara No 0155652213 6 Md. Nazmul Haq Md. Samsul Haq Darshanpara No 0171696162641 7 Mst. Rehana Begum Md. Mamun Al Haq Darshanpara 4,5,6 No 01718911442 8 Sahara Banu Md. Mohosin Ali Darshanpara 1,2,3 No 01722920428 9 Johora Khatun Md. Mohosin Ali Darshanpara 7,8,9 No 01722920428 9 Johora Khatun Md. Moktar Hosen Darshanpara 7,8,9 No 01722920428 10 Abdul Karim Late. Anar Uddin Parila No 01737525567 11 Md. Abdul Malek Md. Rahmatullah Parila No 01714972432 13 Md. Tijammel Haq Late. Akzel Bapery Parila No 0171237535472 15 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
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11 Md Jasim Uddin Late. Anar Uddin Parila No 01710602813 12 Md. Abdul Malek Md. Rahmatullah Parila No 01723735472 13 Md. Tijammel Haq Late. Oaz Uddin Parila No 01714972432 14 Rezaul Karim Late. Akkel Bapery Parila No 01717968157 15 Md. Sahidul Islam Md. Robbad Pramanik Parila No 01722095111 16 Arman Ali Late. Momin Uddin Parila No 01725736831 17 Md. Rofikul Islam Md. Jamal Uddin Parila No 01725736831 18 Md. Jahangir Alam Md. Yakub Ali Parila No 01725736831 18 Md. Jahangir Alam Md. Yakub Ali Parila No 01742561503 20 Md. Kased Ali Late. Momtaj Ali Parila No 01742561503 21 Md. Abdur Rahman Late. Obdidur Rahman Parila No 01749155460 22 Md. Abdur Samad La	9	Johora Khatun	Md. Moktar Hosen	Darshanpara 7,8,9	No	01726190182
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13 Md. Tijammel Haq Late. Oaz Uddin Parila No 01714972432 14 Rezaul Karim Late. Akkel Bapery Parila No 01717968157 15 Md. Sahidul Islam Md. Robbad Pramanik Parila No 01722095111 16 Arman Ali Late. Momin Uddin Parila No 01725736831 17 Md. Rofikul Islam Md. Jahangir Alam Md. Yakub Ali Parila No 0172273288 18 Md. Jahangir Alam Md. Yakub Ali Parila No 01742561503 20 Md. Kamal Hossain Late. Momtaj Ali Parila No 01742561503 20 Md. Aksed Ali Late. Akram Ali Parila No 01742561503 21 Md. Asdau Haq Md. Moyej Uddin Parila No 01749155460 22 Md. Abdur Rahman Late. Obaidur Rahman Parila No 0175455763 23 Mst. Rupjan Begum Md. Sahab Ali Parila 4,5,6 No 01736539693 2	11	Md Jasim Uddin	Late. Anar Uddin	Parila	No	01710602813
14 Rezaul Karim Late. Akkel Bapery Parila No 01717968157 15 Md. Sahidul Islam Md. Robbad Pramanik Parila No 01722095111 16 Arman Ali Late. Momin Uddin Parila No 01713767642 17 Md. Rofikul Islam Md. Jamal Uddin Parila No 01725736831 18 Md. Jahangir Alam Md. Yakub Ali Parila No 01742561503 19 Md. Kamal Hossain Late. Momtaj Ali Parila No 01742561503 20 Md. Aksed Ali Late. Momtaj Ali Parila No 01742561503 21 Md. Ziaul Haq Md. Moyej Uddin Parila No 01729452653 21 Md. Abdur Rahman Late. Obaidur Rahman Parila No 01749155460 22 Md. Abdur Rahman Late. Obaidur Rahman Parila 1,2,3 No 01754557663 24 Mst. Rupjan Begum Md. Sahab Ali Parila 4,5,6 No 0172187186 25 Md. Abdur Samad Sa	12	Md. Abdul Malek	Md. Rahmatullah	Parila	No	01723735472
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16 Arman Ali Late. Momin Uddin Parila No 01713767642 17 Md. Rofikul Islam Md. Jamal Uddin Parila No 01725736831 18 Md. Jahangir Alam Md. Yakub Ali Parila No 01713723288 19 Md. Kamal Hossain Late. Momtaj Ali Parila No 01742561503 20 Md. Aksed Ali Late. Momtaj Ali Parila No 0172452653 21 Md. Ziaul Haq Md. Moyej Uddin Parila No 01749155460 22 Md. Abdur Rahman Late. Obaidur Rahman Parila No 01761323288 23 Mst. Jemi Khatun Md. Jalal Uddin Parila 1,2,3 No 01754557663 24 Mst. Rupjan Begum Md. Sahab Ali Parila 4,5,6 No 01736539693 25 Md. Abdur Samad Sarkar Late. Abdul Jalil Sarkar Damkura No 01718140961 27 Md. Abdus Samad Sarkar Late. Noub Ali Damkura No 01736498518 29 Md. A	14	Rezaul Karim	Late. Akkel Bapery	Parila	No	01717968157
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18 Md. Jahangir Alam Md. Yakub Ali Parila No 01713723288 19 Md. Kamal Hossain Late. Momtaj Ali Parila No 01742561503 20 Md. Aksed Ali Late. Akram Ali Parila No 01749155460 21 Md. Ziaul Haq Md. Moyej Uddin Parila No 01749155460 22 Md. Abdur Rahman Late. Obaidur Rahman Parila No 01761323288 23 Mst. Jemi Khatun Md. Jalal Uddin Parila 1,2,3 No 01754557663 24 Mst. Rupjan Begum Md. Sahab Ali Parila 4,5,6 No 01736539693 25 Md. Abdur Samad Sarkar Late. Abdul Jalil Sarkar Damkura No 01721877186 26 Md. Saniul Haq Malitha Late. Abdul Haq Malitha Damkura No 01718140961 27 Md Abdus Samad Sarkar Late. Noub Ali Damkura No 0173659393 28 Md. Abdur Rauf Late. Khoka Damkura No 0172694190 30	16	Arman Ali	Late. Momin Uddin	Parila	No	01713767642
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24 Mst. Rupjan Begum Md. Sahab Ali Parila 4,5,6 No 01736539693 25 Md. Abdur Samad Sarkar Late. Abdul Jalil Sarkar Damkura No 01721877186 26 Md. Saniul Haq Malitha Late. Abdul Haq Malitha Damkura No 01718140961 27 Md Abdus Samad Sarkar Late. Noub Ali Damkura No 01716550393 28 Md. Abdur Rauf Late. Khoka Damkura No 01736498518 29 Md. Abdul Aziz Nur Mohammad Damkura No 01726964190 30 Md. MOjjamel Haque Md. Alim Uddin Damkura No 01716665110 31 Md. Sier Uddin Md Asar Ali Damkura No 01732443392 32 Md. Abdur Rahman Late. Sikim Ali Damkura No 01732443392 33 Mst Rokeya Begum Hus. Md. Harunur Rasid Nouhata 1,2,3 No 01714762480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	22	Md. Abdur Rahman	Late. Obaidur Rahman	Parila	No	01761323288
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25 Sarkar Damkura 0172187/186 26 Md. Saniul Haq Malitha Late. Abdul Haq Malitha Damkura No 01718140961 27 Md Abdus Samad Sarkar Late. Noub Ali Damkura No 01716550393 28 Md. Abdur Rauf Late. Khoka Damkura No 01736498518 29 Md. Abdul Aziz Nur Mohammad Damkura No 01726964190 30 Md. MOjjamel Haque Md. Alim Uddin Damkura No 01716665110 31 Md. Sier Uddin Md Asar Ali Damkura No 01726214794 32 Md. Abdur Rahman Late. Sikim Ali Damkura No 01732443392 33 Mst Rokeya Begum Hus. Md. Harunur Rasid Nouhata 1,2,3 No 01714762480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	24	Mst. Rupjan Begum	Md. Sahab Ali	Parila 4,5,6	No	01736539693
26 Md. Saniul Haq Malitha Late. Abdul Haq Malitha Damkura No 01718140961 27 Md Abdus Samad Sarkar Late. Noub Ali Damkura No 01716550393 28 Md. Abdur Rauf Late. Khoka Damkura No 01736498518 29 Md. Abdul Aziz Nur Mohammad Damkura No 01726964190 30 Md. MOjjamel Haque Md. Alim Uddin Damkura No 01716665110 31 Md. Sier Uddin Md Asar Ali Damkura No 01726214794 32 Md. Abdur Rahman Late. Sikim Ali Damkura No 01732443392 33 Mst Rokeya Begum Hus. Md. Harunur Rasid Nouhata 1,2,3 No 01714762480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	25			Damkura	No	01721877186
27 Sarkar Late. Noub All 01716330393 28 Md. Abdur Rauf Late. Khoka Damkura No 01736498518 29 Md. Abdul Aziz Nur Mohammad Damkura No 01726964190 30 Md. MOjjamel Haque Md. Alim Uddin Damkura No 01716665110 31 Md. Sier Uddin Md Asar Ali Damkura No 01726214794 32 Md. Abdur Rahman Late. Sikim Ali Damkura No 01732443392 33 Mst Rokeya Begum Hus. Md. Harunur Rasid Nouhata 1,2,3 No 01714762480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	26	Md. Saniul Haq	Late. Abdul Haq	Damkura	No	01718140961
29 Md. Abdul Aziz Nur Mohammad Damkura No 01726964190 30 Md. MOjjamel Haque Md. Alim Uddin Damkura No 01716665110 31 Md. Sier Uddin Md Asar Ali Damkura No 01726214794 32 Md. Abdur Rahman Late. Sikim Ali Damkura No 01732443392 33 Mst Rokeya Begum Hus. Md. Harunur Rasid Nouhata 1,2,3 No 01714762480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	27		Late. Noub Ali	Damkura	No	01716550393
30 Md. MOjjamel Haque Md. Alim Uddin Damkura No 01716665110 31 Md. Sier Uddin Md Asar Ali Damkura No 01726214794 32 Md. Abdur Rahman Late. Sikim Ali Damkura No 01732443392 33 Mst Rokeya Begum Hus. Md. Harunur Rasid Nouhata 1,2,3 No 01714762480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	28	Md. Abdur Rauf	Late. Khoka	Damkura	No	01736498518
30 Haque Md. Allin Oddin 01716063110 31 Md. Sier Uddin Md Asar Ali Damkura No 01726214794 32 Md. Abdur Rahman Late. Sikim Ali Damkura No 01732443392 33 Mst Rokeya Begum Hus. Md. Harunur Rasid Nouhata 1,2,3 No 01714762480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	29	Md. Abdul Aziz	Nur Mohammad	Damkura	No	01726964190
32 Md. Abdur Rahman Late. Sikim Ali Damkura No 01732443392 33 Mst Rokeya Begum Hus. Md. Harunur Rasid Nouhata 1,2,3 No 01714762480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	30	Haque		Damkura	No	01716665110
33 Mst Rokeya Begum Hus. Md. Harunur Rasid Nouhata 1,2,3 No 01714762480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	31	Md. Sier Uddin		Damkura	No	01726214794
33 Mst Rokeya Begum Rasid Nouhata 1,2,3 01714/62480 34 Mst. Ambia Begum Md. Alauddin Nouhata 4,5,6 No 01761240780	32	Md. Abdur Rahman	Late. Sikim Ali	Damkura	No	01732443392
	33	Mst Rokeya Begum	Rasid	Nouhata 1,2,3	No	01714762480
Course Paka Unarila Diagater Managament Committee 2014	34	Mst. Ambia Begum				01761240780

Source: Paba Upazila Disaster Management Committee, 2014

NB: Volunteer groups have not been formed in Paba Upazila. So there are not any training provided for the purpose of this subdistrict served as a volunteer. According to the Upazila Disaster Management Committee all Union members should be listed and volunteer training can be arranged.

List of Shelter management committee

Name of Shelter	Responsible Person	Mobile	Remarks
Jot Ragav Govt. Primary School	Most. Jahanara Khatun	01737665885	
Plassey phatepura Govt. Primary	Md Golam mostafa	01714910033	1
School			

Public / private institutions

Name of Shelter	Responsible Person	Mobile	Remarks
Dorshonpara union complex	Md. Romjav Ali	01714257892	-
Hogripara union complex	Md Golam Mostafa	01711 241509	-
Damkura union complex	Md. Sajahan Ali	01711 578553	-
Horipur union complex	Md. Nozrul Islam	01711349295	-
Haragram union complex	Md. Abul Kalam Azad	01715577776	-
Horian union complex	Md. Saiful Bari Vulu	01716684533	-
Damkura union complex	Akkas Ali	01731505281	-
Parila union complex	Shohidul Islam	0723356002	-

Elevated road or dam

Name of Shelter	Responsible Person	Mobile	Remarks
Embankment road up Ammtola to Horiyan	Md Fakhrul Hasan	01715577776	-
Paba upazila roads and adjacent Nouhata	Mr. Shahidul Islam	01716934348	-
Padma River adjacent to the dam road	Aseka Ali	01711379181	-

Outline Paba Upazila

Electoral Area	57, Rajshahi -6
Area	185.16 sq km
Union	08
Pouroshova	02
Mouja	216
Village	262
Family	15324
Male	159452
Female	154744
Total Population	314196
Votar	201857
Educational Institute	182
Bridges and culverts	35
Fire Station	1
Dam	48 km
Sluice gate	30
School kama Shelter	2
Community Clinic	33
Upazila Health Complex	01
Union FPO	8
Total agricultural land	43683 A
One-crop land	3845 H
Two-crop land	7200 H
Three crop land	5180 H
More than three-crop	152 H
land	134 11
Amount of land under irrigation	11608 H

Mosque	470
Temple	18
Churches	9
Eidgah	213
Bank	32
Insurance	5
institutions	3
Post Office	15
Club	28 (reg)
Hats-market	20
Crematorium	12
Cemetery	151
DTW	288
Shallow tube	5294
wells	3294
Tube-wells with	1350
arsenic	1330
Forests	178km
Nursery	11
Poultry Farm	167
Dairy Farm	82
River	3
Khal	35
Pond	6538
Dighi	358
Mud road	695.12 km
Adha paka road	933.23 km
Paka Road	409.06 km
NGO	25

Annex 6
List of some important Broadcast Programs by Bangladesh Betar

Radio Centre	Program	Time	Day
Dhaka-Ka	Krishi Shamachar	6.55-7.00 am	Everyday
	Shukher Thikana	7.25-7.30 am	Everyday
	Shasthoi Shukher Mul	11.30-1200 am	Everyday except Friday
	Shonali Foshol	6.05-6.35 pm	Everyday
	Weather News	6.50-7.00 pm	Everyday
Chittagong	Krishi Kotha	6.55-7.00 pm	Everyday
	Krishi Khamar	6.10-6.50 pm	Everyday except Monday
	Shukhi Saongshar	8.10-8.30 pm	Everyday except Friday
Rajshahi	Khet Khamar Shamachar	6.55-7.00 am	Everyday
	Shabuj Bangla	6.05-6.50 pm	Everyday
Khulna	Shastho Tatthyo	6.55-7.00 am	Everyday
	Krishi Shamachar	4.20-4.30 pm	Everyday
	Chashabad	6.10-6.50 pm	Everyday
Rangpur	Shukher Thikana	7.25-7.30 am	Everyday
	Khet Khamare	6.05-6.35 pm	Everyday
Shylet	Ajker Chashabad	6.55-7.00 am	Everyday
	Shukher Thikana	7.25-7.30 am	Everyday
	Shymol Shylet	6.05-6.50 pm	Everyday except Friday
Thakurgaon	Kishan Mati Desh	6.05-6.25 pm	Suterday, Monday &
			Wednesday
Cox's Bazar	Ajker Krishi	3.07-3.45 pm	Everyday
	Sonali Prantor	3.40-3.45 pm	Tuesday & Thursday
Barishal	Krishi Kotha	3.15-3.30 pm	Everyday except Sunday,
			Wednesday & Friday
	Chhoto Paribar	3.35-3.50 pm	Everyday except Monday,
			Wednesday & Friday
Rangamati	Jiboner Jonno	1.50-1.55 pm	Everyday
	Khamar Bari	3.05-3.15 pm	Everyday

Annex 7 List of Educational Institutions

	List of Education	mai institut	10113		
S L	School/Collage/Madrasa	Students	Teache rs	Location	Use as Shelter house
1	Bilnepalpara Govt. Primary School	143	5	Darshanpa ra	No
2	Bildharmapur Govt. Primary School	272	5	Darshanpa ra	Yes
3	Proshadpara Govt. Primary School	136	5	Darshanpa ra	Yes
4	Kupakandi Govt. Primary School	138	5	Darshanpa ra	No
5	Kornohar Govt. Primary School	247	7	Hujuripara	No
6	Darusha Govt. Primary School	534	10	Hujuripara	No
7	Dharmahata Govt. Primary School	206	5	Hujuripara	No
8	Nepalpara Govt. Primary School	218	6	Hujuripara	No
9	Tikor Govt. Primary School	403	6	Damkura	No
10	Shitlai Govt. Primary School	259	8	Damkura	No
11	Damkura Govt. Primary School	507	12	Damkura	No
12	Muraripur Govt. Primary School	490	10	Damkura	No
13	Gohomabona Govt. Primary School	258	6	Haripur	No
14	Andherkotha Govt. Primary School	306	6	Haripur	No
15	Sonaikandi Govt. Primary School	351	7	Haripur	No
16	Haropur Govt. Primary School	488	9	Haripur	No
17	Cornobinagar Govt. Primary School	315	6	Haripur	No
18	Kulpara Govt. Primary School	289	7	Haragram	No
19	Shilinda Govt. Primary School	325	9	Haragram	No
20	Nouhata Govt. Primary School	458	12	Nouhata	No
21	Puthiya Govt. Primary School	389	9	Nouhata	No
22	Madanhati Govt. Primary School	277	5	Nouhata	No
23	Bagdhani Govt. Primary School	155	5	Nouhata	No
24	Bagshara Govt. Primary School	132	6	Nouhata	No
25	Choubariya Govt. Primary School	136	5	Nouhata	No
26	Duyari Govt. Primary School	310	7	Nouhata	No
27	Baya Govt. Primary School	493	11	Nouhata	No
28	Sindurkusumbi Govt. Primary School	198	5	Nouhata	No
29	Shiyalbera Govt. Primary School	202	4	Nouhata	No
30	Borogachi Govt. Primary School	377	10	BAragachi	No
31	Kalupara Govt. Primary School	249	6	BAragachi	No
32	Madhobpur Govt. Primary School	199	5	BAragachi	No
33	Borogachi Govt. Primary School	458	9	BAragachi	No
34	Betkuri Govt. Primary School	381	9	BAragachi	No
35	Dadpur Govt. Primary School	313	7	BAragachi	No
36	Valam vobanipur Govt. Primary School	417	8	BAragachi	No

S L	School/Collage/Madrasa	Students	Teache rs	Location	Use as Shelter house
37	Chandrapukur Govt. Primary School	119	5	BAragachi	No
38	Hatgodagari Govt. Primary School	353	7	Parila	No
39	Bajrapur Govt. Primary School	261	6	Parila	No
40	Parila Govt. Primary School	300	6	Parila	No
41	Hatramchandrapur Govt. Primary School	376	8	Parila	No
42	Kharkhari Govt. Primary School	504	9	Parila	No
43	Koyra Govt. Primary School	336	8	Parila	No
44	Motiyabil Govt. Primary School	201	6	Parila	No
45	Mushroil Govt. Primary School	411	9	Parila	No
46	Kukhandi Govt. Primary School	434	8	Parila	No
47	Nolkhola Govt. Primary School	200	5	Hariyan	No
48	Sucharan Govt. Primary School	231	7	Hariyan	No
49	Kapasian Govt. Primary School	222	6	Katakhali	No
50	Maskatadighi Govt. Primary School	418	9	Katakhali	No
51	Shampur Govt. Primary School	477	11	Katakhali	No
52	Char Khidirpur Govt. Primary School	310	7	Hariyan	No
53	Chartaranagar Govt. Primary School	280	6	Hariyan	No
54	Darshanpara Govt. Primary School	328	7	Darshanpa ra	No
55	Pakuriya Govt. Primary School	187	5	PAkuriya	No
56	Khirshin Govt. Primary School	258	4	Haragram	No
57	Tishlai Govt. Primary School	154	4	Darshanpa ra	No
58	Vallukpur Govt. Primary School	250	4	Parila	No
59	Itaghati Govt. Primary School	193	4	Baragachi	No
60	MOdhusudonpur Govt. Primary School	226	4	Nouhata	No
61	SM Shishupolli Govt. Primary School	192	4	Hujuripara	No
62	Jagirpara Govt. Primary School	177	4	Hariyan	No
63	Talgachi Govt. Primary School	154	4	Baragachi	No
64	Horipur Govt. Primary School	336	4	Haripur	No
65	Berpara Govt. Primary School	283	4	Haripur	No
66	Vimerdaing Govt. Primary School	154	4	Damkura	No
67	Tetuliya Govt. Primary School	240	4	Hujripara	No
68	Vugroil Govt. Primary School	177	3	Nouhata	No
69	Borobariya Govt. Primary School	186	4	Haragram	No
70	Baroipata Govt. Primary School	173	4	Darshanpa ra	No
71	Shormongla Govt. Primary School	167	4	Hujuripara	No
72	Baroipara tilottoma Govt. Primary School	235	4	Nouhata	No
73	Mollikpur Govt. Primary School	156	4	Hariyan	No

S L	School/Collage/Madrasa	Students	Teache rs	Location	Use as Shelter house
74	Vobanipur Govt. Primary School	165	4	Borogachi	No
75	Cok Parila Govt. Primary School	181	4	Parila	No
76	Tebariya Govt. Primary School	152	4	Parila	No
77	Boshantapur Govt. Primary School	157	4	Nouhata	No
78	Verapora Govt. Primary School	172	4	Baragachi	No
79	Gholhariya Govt. Primary School	137	2	Parila	No
T otal		4538	91		

Feedback through Sharing/Consultation with Upazila Disaster Management Committee (Validation Workshop/Meeting) Paba Upazila

Introduction:

The disaster management plan has been shared with the Paba Upazila Disaster Management Committee (UzDMC) through a validation workshop in 6 July 2014 at the Upazila Auditorium at Paba, Rajshahi. In this workshop the Upazila Chairman, UNO, PIO as well as other members of UzDMC with Shushilan staffs were present in this sharing workshop. The workshop chaired by Upazila Chairman named Md. Mokbul Hossain.

Major Activities:

The validation workshop started from 10.20 am through permission from the Chairperson Md. Jinnat Ali by the staff of Shushilan. Here mainly presented the report and discussed. In the workshop disaster management plan and shown different data/information through multimedia projector. Here shown different findings i.e. hazards, vulnerability, risk map, different committees, planning for disaster management. And at the same time in the meeting has been shared findings sharing, reviewed and feedback taken to add in the report.

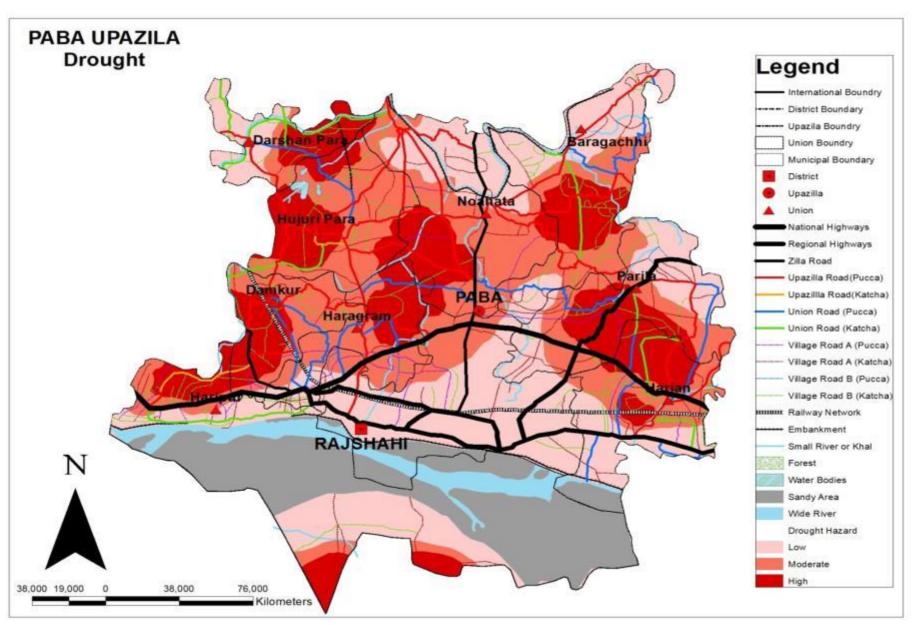
Recommendations/List of Feedback:

Through the sharing of the draft DM plan report the recommendations are listed below

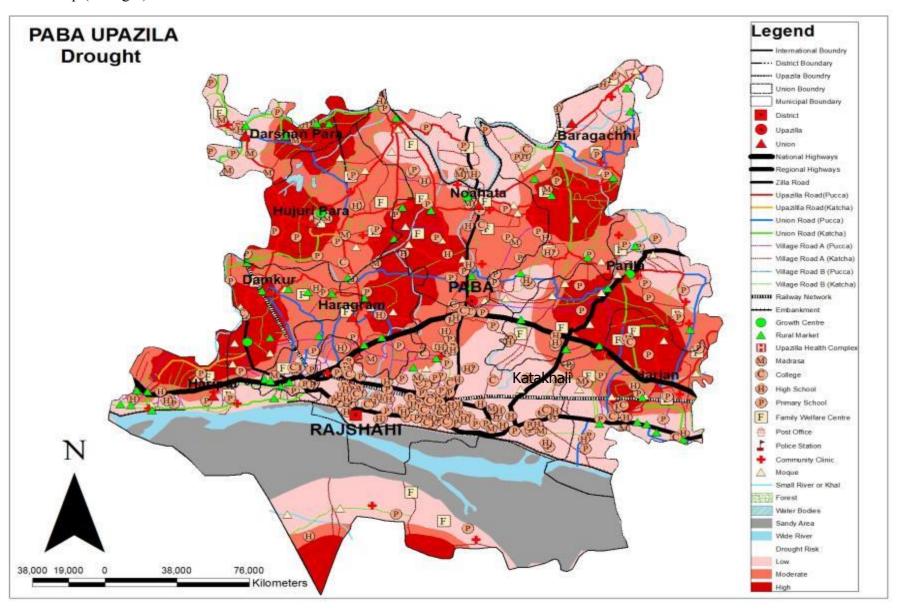
- In the hazard list of the upazila have to consider drought, hilly storm, river bank erosion, water scarcity, heat wave and arsenic.
 - Explain the process of risk ranking in brief within the report
- In the upazila level report hare need to include 14 number of school cum cyclone shelter, 08 sluice gates, 48 km embankment in 13 ft height as a part of flood management capacity.
- There were 64 number of DTWs, 3687 numbers of STWs, 3668 numbers of ponds and 20.90 ha water bodies which consists as a part of drought risk management.
 - In the seasonal calendar have to mention the monthly name as Bangla name.
 - In the EOC, the upazila level different officers will be the responsible
 - Emergency follow up committee will be the lead by the Upazila Chairman
 - Emergency operation committee will be the lead by the UNO
- Emergency committees will be comprise by 5 members, if needed we can include more members under each subcommittee.
- For the disaster management planning the activities may be concern 20-60% by the Upazila Parisad, 05-10% by the community, 20-30% by the Union Pasisad and different NGO 25-80%.
- In the upazila have no any volunteer on disaster management activities and from the project we can start volunteer skill/capacity building activities through training.

Open Discussion & Closing Remarks:

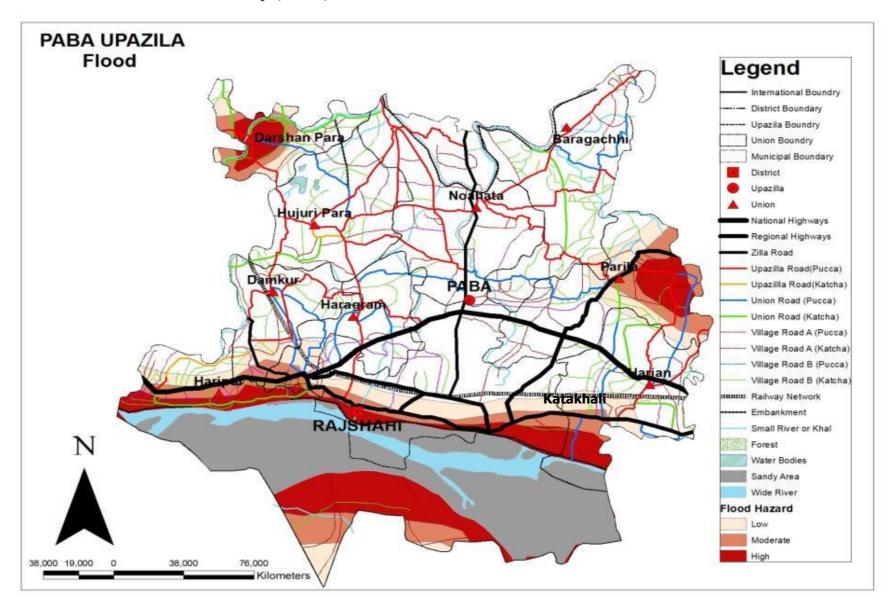
In the open discussion session Upazila Chairman Md. Jinnat Ali has given thanks to the participants and the presented report as disaster management plan. He has also mentioned its importance to prepare plan for disaster management. He told that all the information has nicely articulated & clearly presented and overall report were excellent. Also mentioned about reviewed as incorporate feedbacks from this workshop. UNO and other members were discussed about the presented report with its risk mapping areas and given his thanks for such reporting activities. Finally, the Chairperson thanks to CDMP-II for such initiatives and the all members of the meetings as well as Shushilan and conclude the validation workshop.



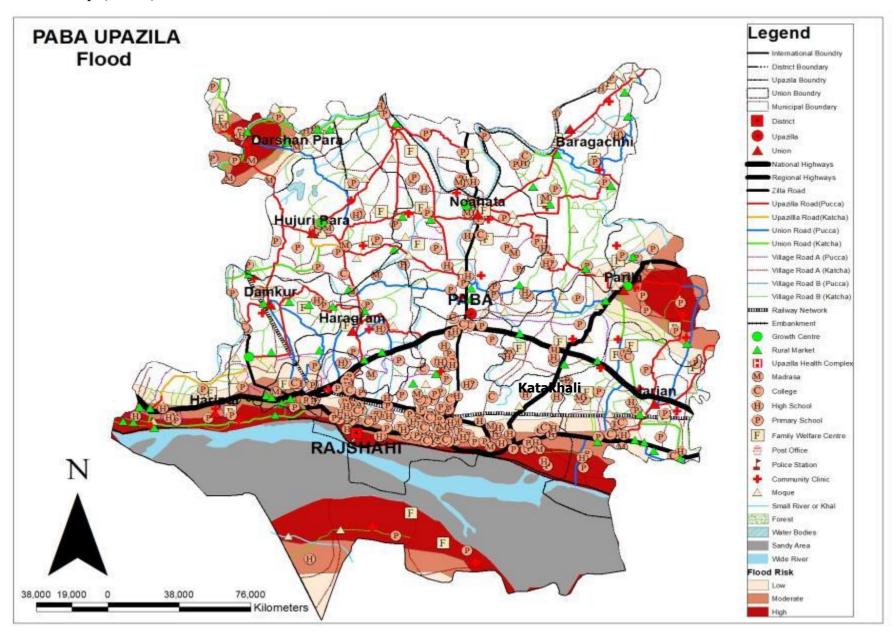
Risk Map (Drought)



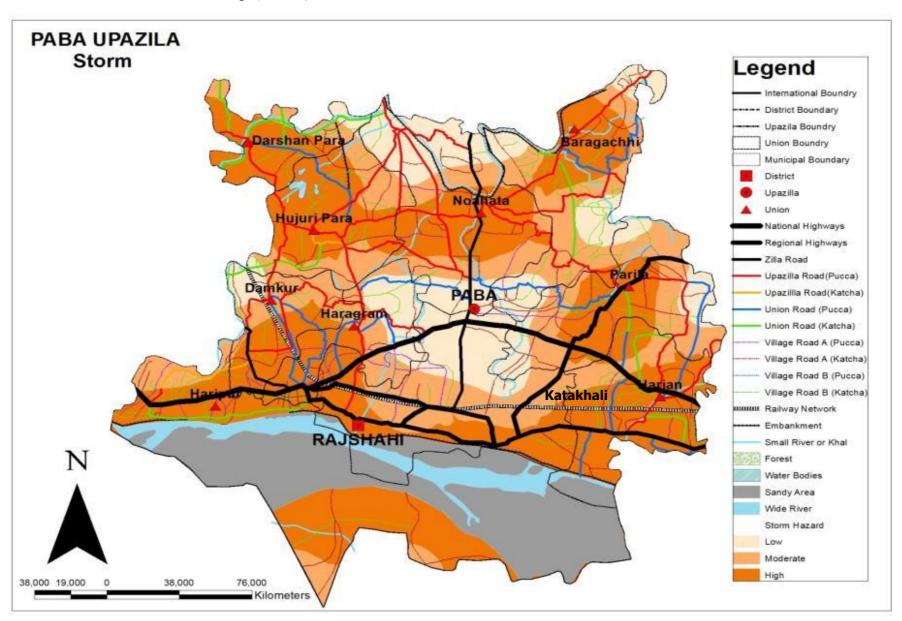
Annex10: Hazard & Risk Map (Flood)



Risk Map (Flood)



Annex11: Hazard & Risk Map (Storm)



Risk Map (Storm)

