

**The People's Republic of Bangladesh
Data Collection Survey on Early
Warning and Disaster Information
System in Coastal Area**

**FINAL REPORT
Appendix**

July 2013

Japan International Cooperation Agency (JICA)

**Earth System Science Co., LTD. (ESS)
Japan Telecommunications Engineering and
Consulting Service (JTEC)**

Appendix 1

Survey Schedule

Survey Schedule (2/2)

		HARA Team Leader	KURIHARA Climatic Disaster Management	MINEGISHI Early Warning System	SASAKA CBDRM	YAMASHITA Disaster Information	HIRAYAMA Disaster Information 2	Local Staff Team A	Local Staff Team B	Local Staff Team C
10-May	Fri		Khulna	Chittagang		Chittagang		Khulna	Chittagang	Chittagang
11-May	Sat		Khulna	Chittagang		Coabzar		Khulna	Chittagang	Chittagang
2013/5/12 (Haral, Chittagang)	Sun		Khulna	Chittagang		Coabzar		Khulna	Chittagang	Chittagang
13-May	Mon		upozila Koyra	Upozila Bakhshali		Coabzar		upozila Koyra	Coabzar	Upozila Bakhshali
2013/5/14 (Haral, Cox's Bazar)	Tue		upozila Koyra	Upozila Bakhshali		Coabzar		upozila Koyra	Coabzar	Upozila Bakhshali
15-May	Wed		upozila Koyra	Upozila Bakhshali		Coabzar		upozila Koyra	Coabzar	Upozila Bakhshali
2013/5/16 (Haral, Chittagang)	Thu		upozila Koyra	Chittagang		Coabzar		upozila Koyra	Coabzar	Chittagang
17-May	Fri		upozila Koyra	Chittagang		Coabzar		upozila Koyra	Coabzar	Chittagang
18-May	Sat		upozila Dicope	Upozila Shibubab		Moheshkhali		upozila Dicope	Moheshkhali	Upozila Shibubab
19-May	Sun		upozila Dicope	Upozila Bakhshali		Daka		upozila Dicope	Moheshkhali	Upozila Bakhshali
20-May	Mon		upozila Dicope	upozila Sandip		Tokyo		upozila Dicope	Moheshkhali	upozila Sandip
21-May	Tue		upozila Dicope	upozila Sandip				upozila Dicope	Moheshkhali	Rahmatpur union, meeting with upozila DMC meeting
22-May	Wed		upozila Dicope	upozila Sandip				upozila Dicope	Moheshkhali	move to Kurubla
23-May	Thu		upozila Dicope	Chittagang				upozila Dicope	Moheshkhali	meeting with upozila DMC meeting
24-May	Fri		Satkhira	Chittagang				Satkhira	Coabzar	move to Satkhira
25-May	Sat		Satkhira	Chittagang				Satkhira	Coabzar	move to Satkhira
26-May	Sun		Upozila Shyamnagar	upozila fen sadar				Upozila Shyamnagar	Coabzar	meeting with upozila DMC meeting
27-May	Mon		Upozila Shyamnagar	Srangaj upozila				Upozila Shyamnagar	Coabzar	meeting with upozila DMC meeting
2013/5/28 (Haral, Fen)	Tue	Tokyo	Upozila Shyamnagar	Srangaj upozila		Tokyo		Upozila Shyamnagar	Chittagang	Srangaj upozila
2013/5/29 (Haral, Chittagang, Fen)	Wed	Daka	Satkhira	Feni		Daka		Satkhira	Chittagang	Feni
30-May	Thu		Khulna	Feni				Khulna	Chittagang	Feni
31-May	Fri		Daka	Feni				Khulna	Chittagang	Feni
1-Jun	Sat		Daka	Move to Daka				Move to Daka		Move to Daka
2-Jun	Sun		Tokyo	Preparation of DPR				Data Analysis		Data Analysis
3-Jun	Mon			Preparation of DPR				Data Analysis		Data Analysis
4-Jun	Tue			Meeting with OPP				Data Analysis		Data Analysis
5-Jun	Wed			Meeting with SWC				Data Analysis		Data Analysis
6-Jun	Thu			Preparation of DPR				Data Analysis		Data Analysis
7-Jun	Fri			Preparation of DPR				Data Analysis		Data Analysis
8-Jun	Sat			Preparation of DPR				Preparation of Report		Preparation of Report
9-Jun	Sun			Return to Japan				Preparation of Report		Preparation of Report
10-Jun	Mon			Return to Japan				Preparation of Report		Preparation of Report
11-Jun	Tue							Preparation of Report		Preparation of Report
12-Jun	Wed							Preparation of Report		Preparation of Report
13-Jun	Thu							Preparation of Report		Preparation of Report
14-Jun	Fri							Preparation of Report		Preparation of Report
15-Jun	Sat							Preparation of Report		Preparation of Report
16-Jun	Sun							Preparation of Report		Preparation of Report
17-Jun	Mon							Preparation of Report		Preparation of Report
18-Jun	Tue							Preparation of Report		Preparation of Report
19-Jun	Wed							Preparation of Report		Preparation of Report
20-Jun	Thu							Preparation of Report		Preparation of Report
21-Jun	Fri							Preparation of Report		Preparation of Report
22-Jun	Sat							Preparation of Report		Preparation of Report
23-Jun	Sun							Preparation of Report		Preparation of Report
24-Jun	Mon		Daka					Preparation of Report		Preparation of Report
25-Jun	Tue	Tokyo						Preparation of Report		Preparation of Report
26-Jun	Wed		Tokyo					Preparation of Report		Preparation of Report

Appendix 2
Questionnaire/Reply for
Local Government

Appendix 2-1

Attendance List

PATICIPANTS LIST

Agenda: _____
 Date: 13:04:2013 _____
 Venue: Bagerhat DC Office _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Shukur Ali	Bagerhat DC Office	Deputy Commissioner	01720460406		
2	Md. Atahar Mia	Bagerhat Disaster Relief & Rehabilitation Office	DRRO	01823439335		
3	Ratan kumar das	Bagerhat Disaster Relief & Rehabilitation Office	Head Assistant	017126770588		
4	Yamashita	JICA	Senior Consultant	01779489263		
5	Shariful Islam	KMC LTD	Consultant	01778580756		
6	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
7	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		

PARTICIPANTS LIST

Agenda: _____

Date: 15:04:2013

Venue: Upozila office, Mongla, Bagerhat

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Dr. Md. Mizanur Rahman	Mongla Upozila	UNO	01716231197		
2	Md. Idris Ali	Mongla pourasova	Chairman	01711342735		
3	Yunus Bhuyial	Mongla upozila	CPP upozila Deputy team leader	01918808002		
4	Md. Marif Billah	Chila union	Member	01912457665		
5	Md. Nahiduzzaman	Project Implementation office	PIO	01716611303		
6	Yamashita	JICA	Senior Consultant	01779489263		
7	Shariful Islam	KMC LTD	Consultant	01778580756		
8	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
9	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
10	Yousuf	JICA		01714416686		
11	Hasibur Rahman		CPP	01731930225		
12	Alomgir		CPP	01728837869		

PATICIPANTS LIST

Agenda:

Data: 17/04/2013

Venue: Chila union parishad, Mongla, Bagerhat

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Idris Ali	Mongla Upozila	Chairman	01711342735	unobanskhali@mopa.gov.bd	
2	Sesh Majaharul Islam	Chila union	Chairman	01712065018		
3	Md. Halim Hawladar	Cpp, Chila union	Member	01712662648		
4	Marium Begum	CPP, unit 7,8,9	Member	01752008661		
5	Yamashita	JICA	Senior Consultant	01779489263		
6	Shariful Islam	KMC LTD	Consultant	01778580756		
7	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
8	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
9	Yousuf	JICA		01714416686		
10						

PARTICIPANTS LIST

Agenda: _____

Date: 22/04/2013Venue: Upazila CPP and PIO office, Sarankhola, Bagerhat

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	K.M.Mamunuzzaman	UNO	Sarankhola Upozila	01715838528		
2	Md.Nasir Uddin	PIO	Sarankhola Upozila	01725889863		
3	Md. Rustom Ali	Office assistance, PIO	Sarankhola Upozila	01719015153		
4	Alamgir Hossain	CPP	Assistant Director, Sarankhola upozila	01728837869		
5	Habibur Rahman Fokir	CPP	Team Leader, CPP	01715857029		
6	Yamashita	JICA	Senior Consultant	01779489263		
7	Shariful Islam	KMC LTD	Consultant	01778580756		
8	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
9	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
10	Yousuf	JICA		01714416686		

PARTICIPANTS LIST

Agenda: _____

Date: 19:04:2013 _____

Venue: Rainda union Parishad, , Sorokhola, Bagerhat _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1	Asaduzzaman Milon	Rainda Union	Chairman	01948135248		
2	Abdul Gaffar	Rainda Union	Secretary	01720361253		
3	Habibur Rahman Fokir	Rainda Union	Union team leader	01715857029		
4	Ibrahim Hossain Fokir	Rainda Union	CPP, Office staff	01916261345		
5	Md. Kawsar akan	Rainda union	Ward member (9)	01717961532		
6	Md. Ruhul Amin	Rainda union	Ward member	01713962559		
7	Yamashita	JICA	Senior Consultant	01779489263		
8	Shariful Islam	KMC LTD	Consultant	01778580756		
9	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
10	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
11	Yousuf	JICA		01714416686		

PARTICIPANTS LIST

Agenda: _____

Date: 20/04/2013 _____

Venue: Southkhali union parishad, Sorokhola, Bagerhat _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Mozammel Hossain	Chairman	Southkhali union	01718060760/01748986611		
2	Hemayet Uddin shekh	Secretary	Southkhali union	01758333072		
3	Md. Shahidul Islam	Officer	Agrani Bank	01712373593		
4	Md. Giasuddin	Ward Member	Southkhali union	01722105655		
5	Md. Emdadul haque hawladar	Team leader	CPP			
6	Yamashita	JICA	Senior Consultant	01779489263		
7	Shariful Islam	KMC LTD	Consultant	01778580756		
8	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
9	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
10	Yousuf	JICA		01714416686		
11	Selina Akter	Southkhali		01722191721		
12	Md. Zakari	Southkhali	Member	01757748774		
13	Jakir Hossain	Southkhali	Member	01729475932		
14	Rahila Begum	Southkhali	Member	01715743778		

PARTICIPANTS LIST

Agenda: _____

Date: 12/05/2013Venue: Khulna DC office; Radio Station and Regional weather station , Khulna District

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Mezbha Uddin	DC office	DC	01713401010		
2	Md. Zohirul Islam	DRRO office	Wireless operator	01915319036		
3	Md. Alimgir	CPP office	DD	01728837869		
4	Md. Bashiruddin	Bangladesh Betar Khulna	Regional Director	01914750636		
5	Md. Mominur Rahman	Bangladesh Betar Khulna	Deputy Director	01718444368		
6	Sk. Abdur Rashid	Bangladesh Betar Khulna	Asst. Radio Engineer	01714510018		
7	Md. Mahbubul Alom	Bangladesh Betar Khulna	Regional Engineer	01916565434		
8	Md. Amirul Azad	Regional Weather Station	Officer in charge	01717272431		

PARTICIPANTS LIST

Agenda: _____

Date: 21/05/2013Venue: Dacope Upazila CPP meeting, Dacope

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1	Shelim Khan	Dacop Upazila Parisad	PIO	01812138142		
2	Debashis Dhali	CPP	Upazila Team Leader	01942422825		
3	Dev Prosad Roy	CPP	Volunteer	01719567099		
4	Aunupom Dotto	CPP	Volunteer	01913053963		
5	Somrat Sen	CPP	Volunteer	01930167748		
6	Beauty Shaha	CPP	Volunteer	01914163012		
7	Tuku Rani Roy	CPP	Volunteer	01827330079		
8	Sumon Gazi	CPP	Unit team Leader	01916350169		
9	Aumrito Mondol	CPP	Volunteer	01921918025		
10	Sangram Sen	CPP	Volunteer	01710752494		
11	Shohidul Islam	CPP	Volunteer	01714950362		
12	Eliush Sheikh	CPP	Volunteer	01917566129		
13	Shirin Begum	CPP	Volunteer	01937191987		
14	Farida begum	CPP	Volunteer	01912899219		

PARTICIPANTS LIST

Agenda: _____

Date: 23/05/2013

Venue: kamarkhola union parisad, Dacope

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Umashongkor Roy	Union Parisad	Chairman	01716537486		
2	Md. Toybur Rahman	Union Parisad	UDMC member	01771762144		
3	Bikash Candra Roy	CPP	Unit team leader	01710121180		
4	Prosenjit Roy	CPP	Union team leader	01718656619		
5	Md. Anish Shana	CPP	Unit team leader	01918059942		
6	Dev Narayan Mondal	CPP	Unit team leader	01725749027		
7	Sonjib Roy	CPP	Unit team leader	01927365600		
8	Sushongkor	CPP	Unit team leader	01714950925		
9	Shopna Sardar	CPP	Unit team leader	01927018934		
10	Spana Roy	CPP	Unit team leader	01935646580		
11	Nongopal	CPP	Unit team leader	01710121642		
12	Himangshu Sarkar	UDMC	UDMC member			
13	Suprovat roy	CPP	Volunteer	01711273457		
14	Ajjul Haque	UDMC	UDMC member	01967550288		
15	Amzad Hossain	UDMC	UDMC member	0192433822		
16	Anita roy	UDMC	UDMC member	01732104038		

PARTICIPANTS LIST

Agenda: _____
 Date: 20/05/2013
 Venue: Sutarkhali union parisad , Dacope Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	G.M. Ashraf Hossain	Union Parisad	Chairman	01711470267		
2	Md. Nur Islam Gazi	Union Parisad	Secretary	01720928601		
3	Md. Ruhul Amin Gazi	Union Parisad	UDMC Member	01923576118		
4	Md. Alahi Box Sardar	Union Parisad	UDMC Member			
5	Golam Rasul Fakir	CPP	Volunteer	01917070351		
6	Azgor Hossain Dhali	Union Parisad	UDMC Member	01939663040		
7	Md. Rakunuzzam Sabuj	CPP	Volunteer	01936039884		
8	Basudev Roy	Union Parisad	UDMC Member	01704512952		
9	Md. Jahid Hassan	CPP	Union team leader	01734712346		
10	Lipika sardar	Union Parisad	Volunteer	01736396224		
11	Monoare Begum	CPP	UDMC Member	01754199015		
12	Gazi Faruk Hossain	Union Parisad	UDMC Member	01911855713		
13	Debashis Dhali	CPP	CPP Upazila team leader	01942422825		
14	Gazi Mola Eushuf	Union Parisad	UDMC Member	01712613550		
15	Belal Hossain	CPP	Volunteer	01911688349		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
16	Md. Jamal Sana	Union Parisad	UDMC Member	01944843203		
17	Md. Ferdoush Fakir	Union Parisad	UDMC Member	01965422507		
18	Md. Najrul Islam	Union Parisad	UDMC Member	01719392300		
19	Md. Kashem Molla	Union Parisad	UDMC Member	01019435339		
20	Monoronjon Fakir	Union Parisad	UDMC Member			
21	Abdul Hakim Morol	Union Parisad	UDMC Member			
22	Md. Nurul Huda	Union Parisad	UDMC Member			
23	Ayub Ali Dhali	Union Parisad	UDMC Member	01740912618		

PATICIPANTS LIST

Agenda: _____

Data: 14/05/2013 _____

Venue: Koyra UNO office, Koyra upazila _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Shameem Hassan	Upazila Office	UNO	01774936253	m.shameem78@gmail.com	
2	Babul kumar Debnath	Upazila Office	UE	01720002010	ue.koira@lsed.bd.com	
3	Md. Akbar Hossain	Upazila Office	UEO	01716951085		
4	Md. Shahidul Islam	Upazila Office	SAE	01916336228		
5	Safiqul Islam	Upazila Office	PIO	01712689809	safiqupio@gmail.com	

PATICIPANTS LIST

Agenda: _____

Data: 14/05/2013

Venue: Upazila CPP office, Koyra Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Abdullah All Mamun	Upazila CPP	CPP U.T.L	01915212281		
2	Md. MAsum Ballha	Upazila CPP	CPP K.T.L	01923101628		
3	Dhiraj Kumar Roy	Upazila CPP	Unit team leader	01921109797		
4	Kabir Hossain	Upazila CPP	Unit team leader	01939341361		
5	Bogcul Karim	Upazila CPP	Unit team leader	01920287422		
6	Aktarul Islam	Upazila CPP	Unit team leader	01916610422		
7	Ismail Hossain	Upazila CPP	Unit team leader	01914153919		
8	Abdul Hossain	Upazila CPP	Unit team leader	01918614492		
9	Mofajjol Hossain	Upazila CPP	Unit team leader	01982695673		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

PATICIPANTS LIST

Agenda: _____

Date: 16/05/2013

Venue: Amadi Radio Sundarbon Community radio station, Koyra upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Borppoditta Ghosh	Radio Sundarbon	Anchor	01751556575		
2	Abdullah All Mamun	CPP	U.T.L	01915212281		
3	Bishwajit Sinha	Diploma College	Teacher	01714593347		
4	Faruk	CPP	Volunteer	01712768136		
5	Rais Uddin Ahmmmed	Radio Sundarbon	Station Manager	01919123232		
6	Anjun Kumar Roy	Radio Sundarbon	Technician	01915201921		

PATICIPANTS LIST

Agenda: _____

Date: 15/05/2013

Venue: North Bedkashi union parisad, Koyra Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Sardar Matiar Rahman	Union Parisad	Chairman	01940037781		
2	Md. Sariful Islam	Union Parisad	Secretary	01913647842		
3	G.M. Mofizul Islam	Union Parisad	Member	01916526946		
4	Nuruzzaman Sardar	Union Parisad	Member	01917153056		

PATICIPANTS LIST

Agenda: _____

Data: 15/05/2013

Venue: North Bedkashi Union Parisad , Koyra Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Abdullah Al Mamun	Union CPP	Union Team Leader	01916525091		
2	Abdur Razzak	Union CPP	Signal	01922149079		
3	Shah Alom	Union CPP	Evacuation	01919454395		
4	Ponkog kumar roy	Union CPP	Signal	01929359892		
5	Devjani Adhikary	Union CPP	Fast Aid	01924806862		

PARTICIPANTS LIST

Agenda: _____

Date: 17/05/2013 _____

Venue: South Bedkashi union parisad, Koyra _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Alhazz M.M.A. Mannan	Union Parisad	Chairman	01711571426		
2.	Asutosh Roy	School	Vice Principal	01720537326		
3.	Aupurbo Prosad Mondal	CPP	CPP Asst. TeamLeader	01923579131		
4.	Gazi Sirajul Islam	Union Parisad	UDMC Member	01712450601		
5.	Gopal Chandro Gain	UDMC	UDMC Member	01914222758		
6.	Md. Didarul Islam	UDMC	UDMC Member	01923983484		
7.	Najrul Islam	UDMC	UDMC Member	01939658179		
8.	Matin Mollah	UDMC	UDMC Member	01937289936		
9.	Rejoan	UDMC	UDMC Member	01911508499		
10.	Md. Sirajul Islam	UDMC	UDMC Member			
11.	Md. Makshu Rahman	CPP	Volunteer			
12.	Aleya Khatun	CPP	Volunteer	01964943074		

PATICIPANTS LIST

Agenda: _____
 Date: 29/05/2013 _____
 Venue: Satkhira DC office _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Shekh Hamim Hashan	DC office	District Commissioner	01715212277		
2	Md. Abdul Malek	DRRO office	Acting DRRO	01717098955		

PARTICIPANTS LIST

Agenda: _____

Date: 26/05/2013Venue: Sundarban Picnic Corner, Shymnagar upazila CPP, Shymnagar Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Nazmul Islam	Upazila CPP	Fast Aid	01727813903		
2	Sahazahan	Upazila CPP	Shelter	01713922743		
3	Md. Ramzan	Upazila CPP	Fast Aid	017100830682		
4	Md. Abdur Rashid NAntu	Upazila CPP	Signal	01710120714		
5	Habibur Rahman	Upazila CPP	Signal	01715507285		
6	Md. Rafikuzzaman	Upazila CPP	Union team leader	01848040405		
7	S.K. Mokhlesur Rahman	Upazila CPP	Union team leader	01715999038		
8	Rabdar Mondal	Upazila CPP	Union team leader	01942083433		
9	Kumud Gayen	Upazila CPP	Rescue	01724706425		
10	Md. Shahin Vuiya	Upazila CPP	Upazila Team Leader	01714509206		

PARTICIPANTS LIST

Agenda: _____

Date: 27/05/2013Venue: Gabura Union Parisad, Shymanagar Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	G.M. Masudul Alam	Gabura Union Parisad	Chairman	01711310363		
2	Md. Azizul Islam Abu	Gabura Union Parisad	UDMC member	01714230467		
3	Zitom Abdur Rahim	Gabura Union Parisad	UDMC member	01917632044		
4	Md. Abu Taleb	CPP	Unit Team Leader	01911514963		
5	Abdul Matin	Gabura Union Parisad	UDMC member	01714949377		
6	Md. Hefazul Islam	Gabura Union Parisad	Secretary	01820577231		
7	Soukot Hossain	Gabura Union Parisad	UDMC member	01925228555		
8	Md. Firoz Hossain	Gabura Union Parisad	UDMC member	01725357081		

PATICIPANTS LIST

Agenda: _____

Data: 28/05/2013

Venue: Paddopukur Union Parisad, Shymanagar Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Amdadul Islam	Union Parisad	Chairman	01711965474		
2	Shahidul Islam	CPP	Unit team leader	01717811233		
3	Md.Bani Amin	CPP	Unit team leader	01917937334		
4	Devdas Kumar Sarkar	CPP	Unit team leader	01736830116		
5	Abdul Malek Gazi	CPP	Unit team leader	01917655122		
6	Shafikul Islam	CPP	Unit team leader	01717249385		
7	Arafat Rahman	CPP	Unit team leader	01922268363		
8	Saifuddin	CPP	Unit team leader	01722926648		

PARTICIPANTS LIST

Agenda: _____

Date: 31/03/2013

Venue: DC office, Barguna

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Abdul Wahab Bhuyan	DC Office, Barguna	Deputy Commissioner	01720331666		
2	Kazi Hafizur Amin	DC Office, Barguna	Assistant commissioner	01715832585		
3	Prakas Chandra bissawas	Disaster relief and rehabilitation office	DRRO	01915106664		
4	Hafiz ahmed	CPP	Deputy director			
5	Zakir hossain Miraj	CPP	Upozila team leader	01712964855		
6	Yamashita	JICA	Senior Consultant	01779489263		
7	T. Kurihara	JICA	Team Leader	01779489235		
8	Shariful Islam	KMC LTD	Consultant	01778580756		
9	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
10	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		

PARTICIPANTS LIST

Agenda: _____

Date: 01/04/2013 _____

Venue: Barguna sadar upozila parishad, Barguna _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Mustafizur Rahman	UNO	Barguna Sadar Upozila	01711235628		
2	Ranjit kumar Sarkar	PIO	Barguna Sadar Upozila	01728467627		
3	Md. Sirajul Haque	Assistant PIO	Barguna Sadar Upozila	01715347963		
4	Md. Mustafizur Rahman	UNO	Barguna Sadar Upozila	01711235628		
5	Yamashita	JICA	Senior Consultant	01779489263		
6	T. Kurihara	JICA	Team Leader	01779489235		
7	Shariful Islam	KMC LTD	Consultant	01778580756		
8	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
9	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		

PARTICIPANTS LIST

Agenda: _____

Date: 03/04/2013 _____

Venue: Badarkhali union parishad, , Barguna sadar, Barguna

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md.Sahjahan Miah	Badarkhali union	Chairman	01745372804		
2	Md. Jalal Ahmed	Badarkhali union	Secretary	01712930864		
3	Yamashita	JICA	Senior Consultant	01779489263		
4	T. Kurihara	JICA	Team Leader	01779489235		
5	Shariful Islam	KMC LTD	Consultant	01778580756		
6	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
7	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
8	Bachhu	Badarkhali union	Dafader	01719778566		

PARTICIPANTS LIST

Agenda: _____

Date: 02/04/2013 _____

Venue: Naltona Union parishad office, Barguna sadar, Barguna

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md.Safiquzzaman	Naltona Union	Chairman	01730161195		
2	Md. Khalilur Rahman	Naltona Union	Secretary	01726120606		
3	Mrs Mamtaz begum	Union disaster management committee	member	01731257271		
4	Lutfur Rahman	Union disaster management committee	Member	01748469404		
5	Yamashita	JICA	Senior Consultant	01779489263		
6	T. Kurihara	JICA	Team Leader	01779489235		
7	Shariful Islam	KMC LTD	Consultant	01778580756		
8	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
9	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		

PARTICIPANTS LIST

Agenda: _____

Date: 09/04/2013 _____

Venue: Patharghata Upozila office, Barguna _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Badal Chandra Halder	Patharghata Upozila, Barguna	UNO (Upozila administrative officer)	01815345625		
2	H.M.Mahbub Hossain	Patharghata Upozila, Barguna	PIO (Project Implementation Officer)	01717477801		
3	Md. Abul Bashar Khan	Patharghata Upozila, Barguna	Assistant PIO	01735291544		
4	Yamashita	JICA	Senior Consultant	01779489263		
5	T. Kurihara	JICA	Team Leader	01779489235		
6	Shariful Islam	KMC LTD	Consultant	01778580756		
7	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
8	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
9	Yousuf	JICA		01714416686		

PARTICIPANTS LIST

Agenda: _____

Date: 07/04/2013 _____

Venue: Charduanti Union parishad office, Patharghata, Barguna

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Kamrul Islam	Charduanti Union	Chairman	01713961917		
2	Faisal Karim	Charduanti Union	Secretary	017169111328		
3	Harun-or-rashid	Union disaster management committee	member	01716453747		
4	Yamashita	JICA	Senior Consultant	01779489263		
5	T. Kurihara	JICA	Team Leader	01779489235		
6	Shariful Islam	KMC LTD	Consultant	01778580756		
7	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
8	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
9	Yousuf	JICA		01714416686		
10	Sunil Gandra Dey	Charduanti Union				

PARTICIPANTS LIST

Agenda: _____

Date: 06/04/2013 _____

Venue: Patharghata Union parishad office, Patharghata, Barguna

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Asaduzzaman	Patharghata sadar Union	Chairman	01718861301		
2	Sanjai Kumar Hajira	Patharghata sadar Union	Secretary	01731257234		
3	Yamashita	JICA	Senior Consultant	01779489263		
4	T. Kurihara	JICA	Team Leader	01779489235		
5	Shariful Islam	KMC LTD	Consultant	01778580756		
6	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
7	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
8	Yousuf	JICA		01714416686		
9	Fayjul Kobir	Patharghata sadar Union	Member	01740590193		
10	Abul Kalam	Patharghata sadar Union	Member	01716358439		
11	Pari Begum	Patharghata sadar Union				
12	Hajera Begum	Patharghata sadar Union				
13	Tahmina Khatun	Patharghata sadar Union				
14	Jubayda	Patharghata sadar Union				
15	Md. Jakir Hossain	Patharghata sadar Union		01758054362		

PARTICIPANTS LIST

Agenda: _____
 Date: 17/04/2013 _____
 Venue: Dhal Char Union porisod, Char fasson _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Mokammel Haque	CPP	AD	01718200230		
2	Abul kalam	UP	Chairman	01725540178		
3	Md. Mostafij	UP	UP member	01730199117		
4	Md. Saiful Islam	UP	UP member	01722479011		
5	Md Mostafijur Rahman	UP	UP member	01730188752		
6	Md. Selim	UP	UP member	01738722694		
7	Abu Sayed	UP	UP member	01759530702		
8	Jebol Haque Choudhury	UP	UP member	01743253435		
9	Md. Nur Nobil	UP	UP member	01731489709		
10	Kalam	UP	UP member	01712422840		
11	Abdur Rob	CPP	CPP volunteer			
12	Md. Nurul Islam	CPP	CPP volunteer	01735571237		
13	Md. Kalam	CPP	CPP volunteer	01713359995		
14	Md. Monir	CPP	CPP volunteer	01726613871		
15	Md. Khalil	CPP	CPP volunteer	01726572544		
16	Md. Kamal Pondit	CPP	CPP volunteer	01760774205		

PARTICIPANTS LIST

Agenda: _____

Date: 13/04/2013 _____

Venue: Dholigour Nagar union office, Lalmohon Upazila _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Hedaetullah Mintu	UP	Chairman	01740842729		
2	Md. Jakir	UP	Member	01849103222		
3	Shahin Khondokar	UP	Member	01717204190		
4	Samsunnahar	UP	Member	01743188095		
5	Humaun kabir	Dholigour Govt. Primary School	Head Teacher	01712898637		
6	Md. Yusuf Miagh	UP	Member	01716201788		
7	Md. Nurul Islam	CPP	Team leader	01718072606		
8	Tosir Ahmmod	UP	Member	01734374772		
9	Dr. Nitto lal Das	CPP	Team Leader	01710964143		
10	Md. Shofikullah Mijhi	UP	Member	01779045227		
11	Abusufian Joshim	UP	Member	01747101781		
12	Parul Begum	UP	Member	01770663615		
13	Monju	UP	Member	01917127786		
14	Johor lal Das	UP	Secretary	01748975460		

PARTICIPANTS LIST

Agenda: _____

Data: 15/04/2013

Venue: Dholigour Nagar Union porishod CPP, Lalmohon Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Mokammal Haque	CPP	AD.	01718200230		
2	Md. Amranul Haque	CPP	Union Team leader	01716648178		
3	Md. Shamrud	CPP	Unit Team leader	01748940036		
4	Md. Khalilur Rahaman	CPP	Unit Team leader	01727631539		
5	Harun Or Rasid	CPP	Unit Team leader	01765512764		
6	Md. Nurul Islam	CPP	Unit Team leader	01716531598		
7	Motiuddin	CPP	Unit Team leader	01736673290		
8	Md. N Islam	CPP	Unit Team leader	01718072606		
9	Md. Humayoun Kabir	CPP	Unit Team leader	01712898637		
10	Md. Farhad Hossain	CPP	Unit Team leader	01731460750		
11	Islam Mollah	CPP	Unit Team leader	01714648278		
12	Md. Mashbauddin	CPP	Unit Team leader	01711025941		

PARTICIPANTS LIST

Agenda: _____

Date: 11/04/2013 _____

Venue: Lord Harding's union Porishod , Lalmoohon Upazila _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Abul kashem Miah		Chairman	01712054014		
2	Md. Nojir Ahmad		MUP	01717539873		
3	Md. Abdul Goni		Teacher	01740359731		
4	Mofajjol Hyder		Unit team leader	01724495305		
5	Md. Salauddin		MUP	01727022454		
6	Md. Sultan Munsi		Retired member	01746408392		
7	Abdur Rahim		Member	01710682266		
8	Md. Based hossain		MUP	01757031586		
9	Md. Abdur rahim		MUP	0177291510		
10	Md. Salauddin		NGO worker	01719847779		
11	Arsad		Volunteer	01849231048		
12	Md. Sorower		CHCP	01728479872		
13	Md. Equebal Hossain Julhash		CHCP	01713962440		
14	Mijanur Rahman		Volunteer	01749403840		
15	Allauddin		Volunteer	01917568420		
16	Md. Mijanur Rahman		UP Secretary	01715910216		

PATICIPANTS LIST

Agenda:

Data: 21/04/2013

Venue: PIO & CPP office Monpura Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Jakir Hossain	PIO office	PIO	01718742553		
2	Md. Moshed Alam	PIO office	Computer operator cum office assistant	01716269742		
3	Md. Shohidul Islam	CPP office	Computer operator	01713961521		
4	Dilip Mojumder	CPP office	Upazila Team Leader	01711049537		
5	Md. Jakir Hossain	CPP office	M.C.G.	01912266831		
6	Md. Johir	CPP office	UNO	01719095163		
7	Abdullah Al Baki			01731846899		

PATICIPANTS LIST

Agenda: _____
 Date: 21/04/2013
 Venue: Monpura Upazila Office

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Muhammad Jakir Hossain	Upazila Office	PIO	01718742553		
2	Md. Morsed Alom	Upazila Office	Cpmputer Operator	01716269742		
3	Dilip Mojumder	CPP Office	AD(Additional)	01711049537		
4	Md. Sohidul Islam	CPP Office	Operator	01713961521		
5	Md. Jakir Hossain	CPP Office	MCG	01912266831		
6	Md. Johir	CPP Office	Night Gourd	01719095163		
7	Abdul Lal Baki	Upazila office	UNO	01731846899		

PARTICIPANTS LIST

Agenda: _____

Date: 22/04/2013Venue: Hajirhat Union porisod, Monpura upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Shahriar Choudhury	Union Pasisod	Chairman	01711984831		
2	Md. Alom	Union Pasisod	Secretary	01724633510		
3	Sitaram dey	Agriculture Office	SAAO	01718335213		
4	A. Sayed	Union CPP	Member	01732773490		
5	Md. Mossarof Hossain	Union CPP	Up team leader	01740431732		
6	Md. Jamaluddin	Union Pasisod	Member	01719808422		
7	Moiiful Begum	Union Pasisod	Member	01758954615		
8	Razia Begum	Union Pasisod	Member	01725925780		
9	Farida Pervin	Union Pasisod	Member	01821354645		
10	Nasir Ahmmed	Union CPP	Volunteer	01729562041		
11	Mohosin Alom	Union CPP	Volunteer	01917112651		
12	Md. Younush	Union Pasisod	Member	01734460774		
13	Md. Joshim	Union Pasisod	Member	01771035311		
14	Harun-or-Rashid	Union Pasisod	Member	01736545722		
15	Md. Abdul Halim	Union Pasisod	Member	01712143139		
16	Abul Kasem	Union Pasisod	Member	01712596654		

PARTICIPANTS LIST

Agenda: _____
 Date: 22/04/2013
 Venue: 1 no. Monpura union porishod, Monpura

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Mahbulul Islam	Union Porisad	Member	01740567712		
2	Suronjit Das	Union Porisad	Secretary	01740962005		
3	Md. Umoruddin	Union Porisad	UP Member	01765862866		
4	MD. Sabid	CPP	UP Member	01740953309		
5	Dilip Mojumder	CPP	CPP team leader	01711049507		
6	Bikas Chandro Das	CPP	CPP unit team leader	01717651882		
7	Md. Lokman Hossain	Union Porisad	UP Member	01719834889		
8	Md. Sujauddin	Union Porisad	UP Member	01719971754		
9	Jhorna Begum	Union Porisad	UP Member	01746082420		
10	Forida Begum	Union Porisad	UP Member	01720901648		
11	Forida Akhter	Union Porisad	UP Member	01749339598		
12	Badol Chandro Das	Union Porisad	UP Member	01740957137		
13	Alauddin Haolader	Union Porisad	Chairman	01716224771		

PARTICIPANTS LIST

Agenda: _____
 Date: 24/03/2013
 Venue: Patuakhali Serkit House, Patuakhali DC office

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
11.	FAISAL AHMED	DC office Patuakhali	Assistance Commissioner	01717072017	faisal_1876@yahoo.com	
12	MD. ABDUL WADUD	DC office, Patuakhali	Assistance Commissioner	01917743466	rumiwadud@yahoo.com	
13	MD. ASIFUR RAHMAN	DC office, Patuakhali	LOA	01717058057	asif.1136@gmail.com	
14	DEBENDRA NATH	DC office, Patuakhali	RDC	01712207591	deben27@gmail.com	
15	AMOL KRISHNA MANDAL	DC office, Patuakhali	ADC General	01716668662	adcgpluakhali@mopa.gov.bd	
16	MD. SHAH ALAM SARDER	DC office, Patuakhali	ADC (Revenue)	01747425590	shah_alam@yahoo.com	
17	SANTI RANJAN BAIDYA	DC office, Patuakhali	DRRO	01726447512		
18	MAORU HIRAYANA	JTEC	EWS	01742710040	m.hirayama@jtec.or.jp	
19	RYUICHI HARA	JICA Survey Team (ESS)	Team Leader	01779439237	hara.rguichi@essjpn.co.jp	
20	AMITOVH SARKER	DC Office, Patuakhali	DC Patuakhali	01715168296	dcpatuakhali@mopa.gov.bd	
21	MUSTAFIZUR RAHMAN	KMC	Facilitator	01714040544	mustafizur@gmail.com	
22	SUKHENDARA	KMC	Assistant Facilitator	01720966107		

PARTICIPANTS LIST

Agenda: _____

Date: 25/03/2013Venue: Galachipa TNO office, Golachipa Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	FAZLUR KARIM	Golachipa	Vice Chairman	01710412739		
2	MD. MOHABUB ALOM	Galachipa	UNO	01712786830	unogalachipa@mopa.gou.bd	
3	MD. HARUN OR RASHID	Golachipa Upazila Parisad	Upazila Chairman	01715806432		
4	MD. MOAZZEM HOSSAIN	Golachipa Upazila	UP Chairman	01715029315		
5	SMD.	Galachipa	UJO	01718483207		
6	ABU BAKER SIDDIQUE	Galachipa	Upazila statistical officer	01728942449		
7	MD. CHUNNU MIAH	Golachipa	Anser and VPP officer	01718731180		
8	MD. MAJIBUR RAHMAN	Golachipa	UFO Food officer	01716668823		
9	ABDUL BAREK MIRDHA	CPP Red Crescent	Deputi Upazila Team Leader	01812167581		
10	MA KUDDUS MIAH	UP	Chairman	01740827252		
11	MD. MOJAHIDUL ISLAM	Golachipa	PIO	01711-947460		

PARTICIPANTS LIST

Agenda: _____

Date: 29/03/2013 _____

Venue: Amkhola Union Porishad, Golachipa _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	ABDUL BAREK MRIDHA	CPP	Union Team Leader	01812167581		
2	MD. ANOWAR HOSSAIN	Amkhola Union Parishad	Chairman	01718590048		
3	MD. RAMIZ UDDIN	Amkhola Union Parishad	Secretary	01716004856	Ramizuddin73@yahoo.com	
4	GOLUM MAULA RAHIM	CPP	Team Leader	01740907357		
5	RAFIKUL ISLAM	Amkhola Union Parishad	Member	01714351945		
6	SOHRAB HOSSAIN	Amkhola Union Parishad	Member	01745069506		
7	JAHANARA BEGUM	Amkhola Union Parishad	Member	01750759419		
8	SHORIFUL BEGUM	Amkhola Union Parishad	Member	01926163942		
9	MOSHAROF HOSSAIN	Amkhola Union Parishad	Member	01713953088		
10	MOKSHED MRIDHA	Amkhola Union Parishad	Member	01746981401		
11	MOSHAROF HOWLADER	Amkhola Union Parishad	Member	01736183113		
12	FAZLUL HAQUE	CPP 8 th no word	Team Leader	01736699598		
13	KAZI ALOMGIR KABIR	CPP 1 no word	Team Leader	01745451271		
14	RAJIA BEGUM	Amkhola Union Parishad	Informor	01751569660		

PARTICIPANTS LIST

Agenda: _____

Date: 26/03/2013

Venue: Ratondi Taltoly High School, Ratondi Taltoly Union Parisad, Golachipa

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MD. JAKIR HOSSAIN	Ratondi Taltoly High School	Head Teacher	01753641680		
2	MD. GOLAM MOSTOFA	CPP	Union Team Leader	01734910878		
3	ABDUL MANNAN MIRDHA	Union Parisad	General Member			
4	ABDUS SATTAR	BADC	BADC Present	01745352636		
5	NASRIN NAHAR	Red Crescent	C.O Red Crescent	01710173492		
6	NUR MOHAMMAD	Union Parisad	UP Member	01713959874		
7	SHAH ALOM	Union Parisad	UP Member	01724297445		
8	MD. SAKAYET	Union Parisad	UP Member	01937313626		
9	MD. ALOM AKBER	BADC	BADC Member	01710738247		
10	MD. SASHEM	Union Parisad	General Member			
11	MD. ALMAS	Union Parisad	General Member			
12	NIRMOL	CPP	CPP Member	01722408770		
13	MD. HANIF	Union Parisad	General Member			
14	MD. MOSAMMEL	Union Parisad	General Member			
15	MD. BAREQ	Union Parisad	General Member			
16	ABDUL MOTLAB	CPP	CPP Member			
17	AYSHA					

PATICIPANTS LIST

Agenda: _____
 Date: 01-04-2013 _____
 Venue: Kalapara CPP Upazila Office _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	B. M KHALAQU	CPP	Assistance signal man	01740514549		
2	MD. SHAHALAM	CPP	CPP signal man	01713950396		
3	MD. MAJIBUR	CPP	13, Unit team leader	01712903061		
4	MD. SHAHIDUL ISLAM	CPP	Deputy UTL	01720581013		
5	MYBAHUDDIN BABUL	CPP	Upazila Deputy Team Leader	01738530877		
6	MD. MOTALEB HOWLADER	CPP	UTL	01743943417		
7	ABDUL HAKIM FAYJE	CPP	Nil	01740901686		
8	MD. NASIR UDDIN	CPP	F.A	01684898308		

PARTICIPANTS LIST

Agenda: _____

Data: 30/03/2013

Venue: Lotachpli Union Porishod (UDMC), Kalapara Upazila

No.	NAME	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MST. SHAHIDA BEGUM	Lotachpli Union Porishod	Chairman	01757835229		
2	DR. SHIDDIKUR RAHMAN	Political Party	Union President Awamileag	01733252128		
3	MD. ANSARUDDIN MOLLA		Businessman	01718815601		
4	MD. ABUL BASSAR HOWLADER	Lotachpli Union Porishod	UP member	01733299834		
5	MD. MONIRUZZAMAN	Lotachpli Union Porishod	UP member	01713688966		
6	MST. NAZMA	Lotachpli Union Porishod	UP member	01732776279		
7	SOHORUF	Lotachpli Union Porishod	UP member	01734438580		
8	MD. DELOAR HOSSAIN	Lotachpli Union Porishod	UP member	01715609322		
9	MD. ALI HOSSAIN	Health Office	Health Assistant	01735176584		
10	MD. ABU SAYED	Lotachpli Union Porishod	UP member	01720584525		
11	KAJOL SOMODDAR	NGO	Member	01762990799		

PARTICIPANTS LIST

Agenda: _____

Date: 31-03-2013 _____

Venue: Lotachapli Union porishod (CPP), Kalapara Upazila _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	SHOFIQU ALOM	CPP	Union Team Leader	01712192147		
2	MD. ABUL BASHAR	CPP	Union Deputy Team Leader	01733299834		
3	MD. MOJIBUR RAHMAN	CPP	Team Leader	01721539993		
4	MD. ABDUL AKBAR	CPP	Team Leader	01740869456		
5	MD. DALIL MIRDA	CPP	Team Leader	01710022907		
6	SHAMSUL ALOM	CPP	Team Leader	01828113223		
7	MD. ANIS MOLLAH	CPP	Team Leader	01715916807		
8	SYED MD. FARUK	CPP	Team Leader	01748950967		
9	MD. SHOHIH	CPP	Team Leader	01740883878		
10	MD. MIZANUR RAHMAN	CPP	Assistance Team Leader Unite 10	01711108340	mizankuakata@gmail.com	
11	KHALILUR RAHMAN	CPP	Team Leader Unite No 16	01716251409		
12	MD. SHAH ALAM	CPP	Assistance Team Leader	01715609327		
13	ABDUL ZABBAR	CPP	14 Leader	01735952742		
14	MOSTOFA	CPP	15 Leader	01714765474		

PARTICIPANTS LIST

Agenda: _____

Date: 03/04/2013 _____

Venue: CPP Office Tiyakhaly Union , Kalapara Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MYBAHUDDIN BABUL	CPP Teakhali	Union Team Leader	01738530877		
2	SHAHALAM KHAN	CPP	Volunteer	01713950396		
3	MD:NAZRUL SARDER	CPP	Volunteer	01712781340		
4	MAIBUR ALAM	13 Unit Leader	Union Team Leader	01712903061		
5	RAHMAN	CPP	Union Team Leader	01728467054		
6	DHALI NAZRUL	CPP	Volunteer	01716227892		
7	REXZAUL KARIM	CPP	Member	01718917274		
8	M/D.ESAK	CPP	Member	01724055360		
9	HIRU SHIKDER	CPP	Member	01734881769		
10	REZAUL HAQUE	CPP	Union Team Leader	01714939233		
11	ELIUS	CPP	Member	01739099532		
12	MONTAJULL KHAN	CPP	Volunteer	01743062856		
13	RIPON	CPP	Member	01741042446		
14	ANOWER UZZAMAN	CPP	Member	01733252227		
15	MD. NASHIR UDDIN	CPP	Volunteer	01684898308		
16	SAIFUL ISLAM	CPP	Unit-12	01712896139		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

17	B.M.KHALAM	CPP	Volunteer	01740514549	
18	MD.SAMIM	CPP	Volunteer	01757976669	
19	RUSTAM ALI	CPP	Unit-11	01916769797	
20	SOHEL AKTER	CPP	Unit-1	01713232345	

PARTICIPANTS LIST

Agenda: _____

Date: 03/04/2013 _____

Venue: Tiyakhaly Union Porisad, Kalapara Upazila

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MD.MAHAMUDUL HASAN SUJAN MOLLA	UNION COUNCIL	UP CHAIRMAN	01717711690		
2	MD.OSHED MSDUD	UNION COUNCIL	UP SECRETARY	01715717687		
3	M.D.ROB	UNION COUNCIL	UP	01713963295		
4	MD.HARUN OR RASHI		F.P.9	01718749589		
5	MISS.GAHANARA	UNION COUNCIL	UP MEMBER	01766273655		
6	M.BDUL KHALEK	UNION COUNCIL	UP MEMBER	01713959989		
7	MD.BASHIR UDDIN	UNION COUNCIL	UP MEMBER	01716832704		
8	MAMUN MOLLA	UNION COUNCIL	UP MEMBER	01728366383		
9	MASUD	UNION COUNCIL	UP MEMBER	07827922291		
10	KHOKON	UNION COUNCIL	UP MEMBER	01719936421		
11	FATEMA	UNION COUNCIL	UP MEMBER	01745056691		
12	MAHAMUDUL	UNION COUNCIL	UP MEMBER	01736862988		
13	MD.CHANMIYA	UNION COUNCIL	UDMC MEMBER	01771539898		
14	SAYED ABDUL GONI	UNION COUNCIL	UP MEMBER	01745056691		
15	MD.FERDAUS	UNION COUNCIL	General Member	01727173878		
16	ALAOM	UNION COUNCIL	UDMC MEMBER			

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

17	A.KHALEAK	UNION COUNCIL	UDMC MEMBER	01796141751	
18	MD.PANNA	UNION COUNCIL	UDMC MEMBER	01733252233	
19	SOVHON	UNION COUNCIL	General member	01753640092	
20	MD.EMRAN	UNION COUNCIL	General member	01940421092	

PARTICIPANTS LIST

Agenda: _____

Date: 11/04/2013 _____

Venue: DC office, Pirojpur _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Anol Chandra Das	DC Office, Pirojpur	Deputy Commissioner	01715108805		
2	Sujit Devnath	DC office Pirojpur	Nezarot Deputy Collector (NDC)	01730036515		
3	Ishrat Zahan	Disaster relief and rehabilitation office	DRRO	01710677996		
4	Shah Alom	Disaster relief and rehabilitation office	Radio Operator	01715782721		
5	Anser Ali	Disaster relief and rehabilitation office	Head clerk	01915189053		
6	Yamashita	JICA	Senior Consultant	01779489263		
7	T. Kurihara	JICA	Team Leader	01779489235		
8	Shariful Islam	KMC LTD	Consultant	01778580756		
9	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
10	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
11	Yousuf	JICA		01714416686		
12	Seuly Hory	DC Office, Pirojpur	General Branch	01738424530		
13	Md. Yasin Kobir	DC Office, Pirojpur	General Branch	01717432500		
14	S.S Shahin	DC Office, Pirojpur	LAO	01774415480		

PARTICIPANTS LIST

Agenda: _____

Date: 28/03/2013 _____

Venue: Mathbaria Upozila office, Pirojpur _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Dr. Md. Anwar hossain	Pirojpur 3	Member of parliament	01711125992		
2	Md. Sadekur Rahman	Mathbaria Upozila	Chairman	01727176772		
3	Md. Ahsan Habib	Mathbaria Upozila	UNO	01730036513		
4	Md. Faizul Islam	Mathbaria Upozila	PIO	01772284921		
5	Abdul Latif	CPP	Assistant director	01716398812		
6	Ibrahim Khalil	CPP	Upozila team leader	01837672175		
7	Yamashita	JICA	Senior Consultant	01779489263		
8	T. Kurihara	JICA	Team Leader	01779489235		
9	Shariful Islam	KMC LTD	Consultant	01778580756		
10	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
11	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
12	Yousuf	JICA		01714416686		

PARTICIPANTS LIST

Agenda: _____

Date: 27/03/2013

Venue: Baramasua union parishad

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Abdur Rahman Khan	Baramasua union	Chairman	01727779534		
2	Bidhan Somoddar	Ward 1, Baramasua Union	Ward member	01726633557		
3	Babul Akon	Ward 2, Baramasua Union	Ward member	01721977908		
4	Ashraf ali patra	Ward 3, Baramasua Union	Ward member	01718356988		
5	Harunor Rashid	Ward 7, Baramasua Union	Ward member	01724005909		
6	Yamashita	JICA	Senior Consultant	01779489263		
7	T. Kurihara	JICA	Team Leader	01779489235		
8	Shariful Islam	KMC LTD	Consultant	01778580756		
9	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
10	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
11	Yousuf	JICA		01714416686		
12	Sreemoti Alo Rani Sikder	Baramasua Union	Member	01721977908		
13	Abdul Kader	Baramasua Union	CPP	01715211734		
14	Masum Farazi	Baramasua Union	Journalist	01724851776		
15	Bimol Dikder	Baramasua Union	Member	01742815677		

PARTICIPANTS LIST

Agenda: _____

Date: 25/03/2013Venue: Bethmore Rajpara Union parishad

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	S.M.Ferdous (Rummon)	Bethmore Rajpara Union	Chairman	01716171684		
2	Md.Modassir Ali	Bethmore Rajpara Union	Member, ward 3	01724855506		
3	Md.Yasak Ali	Bethmore Rajpara Union	Member, ward 7	01721527632		
4	Md.Abdul Halim	Bethmore Rajpara Union	Member, ward 8	01720958430		
5	Md.Shaid	Bethmore Rajpara Union	Member, ward 9	01721431778		
6	Yamashita	JICA	Senior Consultant	01779489263		
7	T. Kurihara	JICA	Team Leader	01779489235		
8	Shariful Islam	KMC LTD	Consultant	01778580756		
9	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
10	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
11	Yousuf	JICA		01714416686		
12						

PATICIPANTS LIST

Agenda: _____

Date: 11:05:2013 _____

Venue: WEST KHULSHI CPP OFFICE CHITTAGONG

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MD:NAJRUL ISLAM	CPP	ASSISTANT DIRECTOR	01924106011		
2	MD;HANIF	CPP	RADIO OPERATOR	01726556008		
3	MD:EMAMUL ISLAM	CPP	GUARD	01812107887		

PATICIPANTS LIST

Agenda: _____

Data: 11:05:2013 _____

Venue: DRRO OFFICE CHITTAGONG _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	ABDUL MALLEK	OFFICE OF THE DEPUTY COMMISSION	DRRO	01711372860	Chittagong drro@dirr.gov.bd	
2	MD:MASUM KABIR	OFFICE OF THE DEPUTY COMMISSION	PIO	01716198196	mknislam@yahoo.com	
3	MD ABDUL MANNAN	OFFICE OF THE DEPUTY COMMISSION	DC	01713-104332	dcchittagong@mopa.gov.bd	

PARTICIPANTS LIST

Agenda: _____

Date: 13/05/2013

Venue: BAWSHKHALI UPAZILA UNO OFFICE

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	SABBIR IKBAL	ADMINISTRATION	UNO	01710876156	unobanskhali@mopa.gov.bd	
2	NURUL HOQUE	CPP	UTL	01815355603		
3	MASUD KABIR SHAHS	UHE	NIL	01710308383		
4	MD:IBRAHIM	NIL	CHAIRMAN	01712144512		
5	SAKERA	UWALO	NIL	01716598620		
6	REZAUL HOQUE	UP	CHAIRMAN	01711440050		
7	HAIUDDIN	UP	CHAIRMAN	01841104133		
8	MD:SOHIDUL ISLAM	UAO	UAO	01718732921		
9	K.M.SAHIN UDDIN	UP	CHAIRMAN	01819894618		
10	DR:SYED MDORES KAMAL	DLS	ULO	01711164917		
11	MOKHRTNARD	UP	CHAIRMAN	01727460699		
12	OLI AHMMED	UP	NIL	01716143984		
13	MD:KASHEM	CY FOR UYSO	NIL	01716278366		
14	ABDUL MALEAK	AICS UCO	NICS	0181766052		
15	MD:LUKMAN	UP	CHAIRMAN	01814201809		
16	SUDATTA CHAKMA	UPAZILA CONTROLLER OF FOOD	UFC	01556570094		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

17	PRIYATOSH KANTINATH	BRDB	URDO	01818683566	
18	MD:IDRIES BADSA	UP	NIL	01837601588	
19	MD:N.ISLAM	USEO	USEO	01719213096	
20	MD:FERDIUS ALAM	MUP	NIL	01813708273	
21	RASHID AHMMED	STATISTIC OFFICE	USO	01812022128	
22	MD:SIRAJUL ISLAM	RLP,BRDB	UPO	01819613531	mismowlactg@yahoo.com
23	MITU DAS	CPP	OTT.AS	01716917006	
24	RAUK UDDIN	VPS	CHAIRMAN	01818401861	
25	MUJAFFOR	VDB	UPAZILA COMANDED	01816109295	

PATICIPANTS LIST

Agenda: _____

Date:13:05:2013 _____

Venue: BAWSHKHALI CPP OFFICES _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1	NURUL HOQUE CHAWDHURY	CPP	UNION TEAM LEADER	01815355603		
2	MD:MORSHED ALAM	CPP	UNIT TEAM LEADER	01816099908		
3	MD:UNIS SHAHI	CPP	VHF OPERATOR	01833206853		
4	BABU MITU DAS	CPP	HF OPERATOR	01716917006		

PATICIPANTS LIST

Agenda: _____

Data: 14/05/2013 _____

Venue: BAHARCHORA UNION PORISAD CPP OFFICE

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MOMTAJ	CPP	UNION TEAM LEADER	01818130799		
2	MD:HARIJ	UPS	VOLUNTEER	01830986189		
3	AHMMEED ROSUL	CPP	UNIT TEAM LEADER	01816439086		
4	ABDUL HAFIZ	CPP	UNIT TEAM LEADER	01834519952		
5	AZIZ AHMMED	UNION PORISHAD	MEMBER	01825072997		
6	ZAKIR	CPP	UNIT TEAM LEADER	01814197014		
7	KAZI MD:HANIF	CPP	MEMBER	01838517550		

PARTICIPANTS LIST

Agenda: _____

Date: 14/05/2013 _____

Venue:BAHAR CHORA UNION PORISAD _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	LUKMAN AHMMED	UNION PORISAD	CHAIRMAN	01814701807		
2	ABDUL MALLEAK	UNION PORISAD	MEMBER	01811585881		
3	MD:WOSMAN	UNION PORISAD	MEMBER	01821540915		
4	ABDUL HAFIZ	CPP	UNIT TEAM LEADER	01834519952		
5	MOMTAJ UDDIN	CPP	UNIT TEAM LEADER	01818130779		
6	ABU SALHEA MD ASHEAK	UNION PORISAD	SEC OF UP	01930673978		
7	ZAKIR HOSSAIN	CPP	UNIT TEAM LEADER	01814197014		
8	ABU SALEAK	RESPONDANCE	NIL	01819366843		
9	ABU AHMMED	UNION PORISAD	MEMBER	01817716342		
10	MD:HANIF	RESPONDANCE	NIL	01838517550		
11	HARUNOR RASHID	UNION PORISAD	MEMBER	01816438824		
12	ABUL BASAR	UNION PORISAD	MEMBER	01823028656		
13	AZIZ AHMMED	UNION PORISAD	MEMBER	01825072997		
14	MD:HARIES	UNION PORISAD	MEMBER	01830986189		
15	MISS:PAKJIA AKTER	UNION PORISAD	MEMBER	01939253196		
16	MISS:KHADIJA	UNION PORISAD	MEMBER	01812795511		

PARTICIPANTS LIST

Agenda: _____

Date: 15/05/2013

Venue: CHONUA UNION CPP OFFICE

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	YOUNUS SHAHI	CPP	UNION TEAM LEADER	01833206853		
2	MOJIBOR RAHMAN	CPP	SECRETARY	01820540077		
3	AZIZUL HOQUE	CPP	UTL	01818062456		
4	ASRAF	RESPONDENT	NIL	NIL		
5	SAYED AHNNED	UNION PORISAD	MEMBER	01825122622		
6	WOSMAN GONI	CPP	FAST AID	01821896776		
7	MONSUR	CPP	VOLUNTEER	01834684314		
8	HOSSAIN	CPP	VOLUNTEER	01815704342		
9	KADER	RED CRESCENT	UNION SECRETARY	01830926735		
10	SAROWER KAMAL	CPP	GROUP SECRETARY	01718112901		
11	IDRES	CPP	VOLUNTEER	NIL		
12	FAJLUL KADER	CPP	VOLUNTEER	01824887172		
13	ABU SIDDIQ	RESPONDENT	FARMER	01824913737		
14	ILLIAS	RESPONDENT	FARMER	01833525328		
15	SOFI ALAM	CPP	FARMER	01823709123		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

16	MONJUR ALAM	CPP	VOLUNTEER	01840222508		
17	SOHIDUL	RESPONDENT	STUDENT	01845194625		
18	ASOR	RESPONDENT	BUSINESS	01840338654		
19	TOHIDUL ISLAM	RESPONDENT	STUDENT	01833901937		
20	ZOSHIM	RESPONDENT	FARMER	01824975004		

SPATICIPANTS LIST

Agenda: _____

Data: 18/05/2013 _____

Venue: Chonua Union porisad _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	REZAUL HOQUE	UP	CHAIRMAN	01711440050		
2	MAHABUBUL ALAM	UP	UP MEMBER	01816102460		
3	NURUL ALAM	UP	UP MEMBER	01814249240		
4	MD:HOSSAIN	UP	UP MEMBER	01816101447		
5	ZAMAL	UP	UP MEMBER	01813911739		
6	ROFIQUL ISLAM	UP	UP MEMBER	01827771796		
7	SAMSUL ALAM	UP	DATA SERVICE	01917246707		
8	WOSMAN	REDCRESENT	SF	01821796776		
9	YOUNUS SHAHI	CPP	UTL	01833206853		
10	RAHENA BEGUM	UP	UP MEMBER	01834107370		
11	SAHIN BEGUM	UP	UP MEMBER	01825657602		
12	MUKTER	UP	UP MEMBER	01818700293		
13	YOUNUS	UP	UP MEMBER	01823225764		
14	ALI HOSSAIN	UP	UP MEMBER	01812012851		
15	ABDUS SOBHANS	UP	UP MEMBER	01822868764		

PARTICIPANTS LIST

Agenda: _____

Date: 20/05/2013 _____

Venue: UPAZILA COMPLEX CPP OFFICE(SANDWIP)

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MAJHARUL HOQUE	CPP	SENIOR ASSISTANT DIRECTOR	01715317847	rmbd-cv- 76@yahoo.com	
2	S.M.BORHAN UDDIN	CPP	U.T.L	01816154977		
3	MD:YOUNUS MIA	CPP	U.T.L	01719146426		
4	HAFIZ AHMED	CPP	U.T.L	01743919304		
5	CHANDAN	CPP	RADIO OPERATOR	01811505447		
6	MOSHIUR RAMMAN	CPP	U.T.L	01818212300		
7	SHA FORID	CPP	U.T.L	01718345769		
8	HUMAYON RASHID	CPP	VOLUNTEER	01816028449		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

Agenda: _____

Date: 21/05/2013 _____

Venue: ROHAMATPUR CPP OFFICE(SANDWIP)

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MOSIUR ROHMAN BELLAL	CPP	TEAM LEADER	01818212300		
2	MD:ABUL HASAN JOSIM	CPP	U.T.L	01824424014		
3	MAHAMUDUR RAHMAN	CPP	U.T.L	0181426-0618		
4	MD:ABU HANIF	CPP	U.T.L	01815501805		
5	KAMRUL HASAN KHAN	CPP	VOLUNTEER	01813190312		
6	SAHIN	CPP	U.T.L	01815665108		
7	RASEL ISLAM	CPP	VOLUNTEER	01832982023		
8	ABDUL KUDDUS	RESPONDENT	BUSINESS	01815631954		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

Agenda: _____

Date: 21/05/2013 _____

Venue: Rahamatpur Union porisad _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	HASANUJJAMAN	UP	CHAIRMAN	01816306065		
2	SURES KATIDAS	UP	SECRETARY	01719102453		
3	JOMSED	UP	MEMBER	01812961648		
4	MD:JOMSED	UP	MEMBER	01814439571		
5	MD:BELLAL	UP	MEMBER	01813257368		
6	MOSHIUR	UP	MEMBER	01818443077		
7	A.K.AZAD	UP	MEMBER	01817246141		
8	JAHANGIR	UP	MEMBER	01812742776		
9	KAMAL UDDIN	UP	Head Guard (Village Police)	01815685696		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

Agenda: _____

Data: 22/05/2013 _____

Venue: SARIKAIT UNION PARISAD _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	ABDUL MALEAK	UP	CHAIRMAN	01711748257		
2	YOUNUS	UP	MEMBER	01719146426		
3	SABED HOSSAIN	UP	SECRETARY	01917700352		
4	KAZI FAKRUL	CPP	U.T.L	01812575829		
5	ABUL BASAR	UP	MEMBER	01734737945		
6	SAYED	UP	PION	01743615667		
7	KAZI MANNAN	RESPONDENT	FARMER	NILL		
8	HUMAYIN KABIR	RESPONDENT	BUSINESS	01829350538		

PARTICIPANTS LIST

Agenda: _____

Date: 12/05/2013 _____

Venue: DC office, Cox 's bazar _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md.Ruhul Amin	Dc office	DC	01731160093		
2	Syed md. Nurul basir Abdul Mazid	Dc office	ADC general	01711466335		
3		Dc office	DRRO	01712072279		
4	Shah Alom	Radio Operator	Disaster relief and rehabilitation office	01715782721		
5	Anser Ali	Head clerk	Disaster relief and rehabilitation office	01915189053		
6	Yamashita	JICA	Senior Consultant	01779489263		
7	Shariful Islam	KMC LTD	Consultant	01778580756		
8	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
9	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
10	Md. Abdul Alim	District Educational Office	Assistant Inspector	01717623553		
11	Engr. Shahidul Alam	BWDB, Coz' Bazar	Executive Engineer	01711589335		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

12	Abidur Rahman	SARPV	Project Officer	01714374368		
13	Md. Harun	YPSA	Coordinator	01716280168		
14	Md. Babul Azam	CARE	Technical Manager	01749858445		
15	Mur Wah Voon	WFP	Head of Sub Office	01755642163		
16	Eng. K. Paul	NGO	Director	01715128638		
17	Sk. Mahammad Hasan	WFP	Assistant of Sub Office	01755642161		
18	Paul Ashim Biswas	World Vision	DMO	01755569661		
19	Subrata Biswas	DWA	DWAO	01718426892		

PARTICIPANTS LIST

Agenda: _____

Date: 22/05/2013Venue: PIO office, Kutubdia Upazila, Cox 's bazar

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Foroz Ahmed	Kutubdia Upazila Office	UNO	01716152808		
2	Soubhrat Das	Kutubdia Upazila Office	PIO	01915152495		
3	Samsul Haque	Kutubdia Upazila Office	Assistant to PIO	01710120414		
4	Al. Hazz Golam Rashid Baccu	CPP, Kutubdia	CPP upozila team leader	01714374455		
5	Faridul Alam	CPP, South Dhurung	Union team Leader and VHF operator	01723486971		
6	Shariful Islam	KMC LTD	Consultant	01778580756		
7	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
8	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
9	Ali Ahmed	Lemshekhali	Business	01851049297		

PARTICIPANTS LIST

Agenda: _____

Date: 23/05/2013Venue: Koiyarbill Union parishad, Kutubdia, Cox's Bazar

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Azamgir	Koiyarbill Union	Chairman	01714374722		
2	Md. Faridul Alam	Koiyarbill Union	Secretary	01719291814		
3	Mir. Kashem	Koiyarbill Union	Member	01829645316		
4	Md. Amanullah	Koiyarbill Union	Member	01814701288		
5	Rousanara	Koiyarbill Union	Member	01815612694		
6	Shariful Islam	KMC LTD	Consultant	01778580756		
7	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
8	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
9	Nurul Bossu	Koiyarbill Union	Member	01815847430		
10	Zohor Lal Das	Koiyarbill Union	Dofader	01823925784		
11	Ali Ahmed	Koiyarbill Union	Dofader			

PARTICIPANTS LIST

Agenda: _____

Date: 26/05/2013Venue: Lemshikhali union parishad, Kutubdia, Cox 's bazar

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Akhter Hossain	Lemshikhali Union	Chairman	01711709711		
2	Nur md. Tariqul Islam	Lemshikhali Union	Secretary	01818575188		
3	Safia Akhter	Lemshikhali Union	Member	01831040918		
4	Sazed ollah	Lemshikhali Union	Member	01816002778		
5	Md. Habibullah	Lemshikhali Union	CPP team leader	01846540133		
6	Abdul Karim	Lemshikhali Union	CPP	01823408018		
7	Shariful Islam	KMC LTD	Consultant	01778580756		
8	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
9	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
10	Akram	3 No Word	Farmer	01811811744		
11	Samsun Nahar	Lemshikhali Union	House Wife	01832942073		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

12	Md. Sukor Alam Azad	Lemshikhali Union		01716656499		
13	Dr. Nurul Kobir	Lemshikhali Union		01818434865		
14	Abdul Kader	Lemshikhali Union		01815030278		
15	Nurul Amin	Lemshikhali Union		01815512282		
16	Helal Uddin	Lemshikhali Union		01837481458		
17	Tazul Islam	Lemshikhali Union		01673757861		
18	Nur Mahammad	Lemshikhali Union		01834500190		
19	Abul Kalam	Lemshikhali Union		01832942073		
20	Anwar Hossain	Lemshikhali Union		01824774462		
21	Abdul Karim	Lemshikhali Union, 4 no Word	CPP	01823408018		
22	Md. Farkan	Lemshikhali Union		01832484697		

PARTICIPANTS LIST

Agenda: _____

Date: 19/05/2013 _____

Venue: Moheshkhali Upazila Parishad, Cox 's bazar _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Md. Anawarul Naser	Moheshkhali Upazila	UNO	017323592321		
2	Biswanath Majumder	Moheshkhali Upazila	PIO	01819976360		
3	Md. Mamunor Rashid	CPP	AD	01818205969		
4	Abu Taher	Moheshkhali Upazila	Assistant to the PIO	01823281979		
5	Md. Mofiz uddin	Moheshkhali Upazila	Sub-assistant engineer EGPP	01715942691		
6	Shariful Islam	KMC LTD	Consultant	01778580756		
7	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
8	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
9						

PARTICIPANTS LIST

Agenda: _____

Date: 25/05/2013Venue: Kutubjum Union parishad, Maheshkhalī , Cox 's bazar

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	M. Shafiul Alam	Kutubjum Union	Chairman	0171 1586084		
2	SM Golam Kader	Kutubjum Union	Secretary	01818477729		
3	Md. Alauddin Saber	Kutubjum Union	Member			
4	Shariful Islam	KMC LTD	Consultant	01778580756		
5	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
6	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
7	Abu Mosa	Kutubjum Union		01837581458		
8	Nurul Alam	Kutubjum Union		01837684185		

PARTICIPANTS LIST

Agenda: _____

Date: 21/05/2013Venue: Matarbaria union parishad, Maheshkhali.

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	Anamul Haque chowduray	Matarbaria union parishad	Chairman	01713620023		
2	Ahmed Hossain	Matarbaria union parishad	Secretary	01757655366		
3	Ansarul Karim	Matarbaria union parishad	Member(ward 2)	01733179220		
4	Hazi Kasem Ali	Matarbaria union parishad	Local member			
5	Chokurtaz Begum	Matarbaria union parishad	Member	01821819940		
6	Shariful Islam	KMC LTD	Consultant	01778580756		
7	Md. Zahurul Islam	KMC LTD	Asst. Consultant	01939929412		
8	Md. Rakibul Islam	KMC LTD	Asst. Consultant	01939929411		
9						

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

Agenda: _____

Date: 26/05/2013 _____

Venue: FENI SADAR UPAZILA _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MD:MOASUR UDDINU	SADAR UPAZILA	UNO	01713187319	Monsur uddin govgmail.com	
2	MILTON DOSTIDER	UPAZILA	PIO	01819839687	Milton dostider@gmail.com	

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

Agenda: _____

Date: 27/05/2013 _____

Venue: FENI ZILA DRRO OFFICE _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	TONMOY ISLAM	DRRO OFFICE	DRRO	01713187309	drrofeni@gmail.com	
2	GOLAM SAROWER	DRRO OFFICE	H/A	01814946340		
3	AHSAN ULLAH	DRRO OFFICE	W/O	01825917097		
4	NUR ALAM	DRRO OFFICE	GUARD	01822848553		
5	MOFIZUR RAHMAN	DRRO OFFICE	PION	01920942323		
6						

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

Agenda: _____

Date: 26/05/2013 _____

Venue: SONAGAZI UPAZILA CPP OFFICE (FENI)s _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MESPA UR RAHMAN	CPP	A.D	01819169219		
2	MOLOVI ANAYET	CPP	U.T.L	01814837378		
3	ISMAIL	CPP	U.T.L	01837617876		
4	ABUL KALAM	CPP	U.T.L	01811365909		
5	NURUL ISLAM	CPP	VOLUNTEER	01823132253		
6	ABDUL MANNAN	CPP	VOLUNTEER	01825748715		
7	AMIR HOSSAIN	CPP	U.T.L	01815640888		
8	SANTI RANJON KORMOKER	CPP	U.T.L	01711447365		
9	SOMOR BABU	CPP	U.T.L	01818253816		
10	SUSHA RANJON DUS	CPP	U.T.L	01840842816		
11	SALAUDDIN REYAD	CPP	VOLUNTEER	01921444426		
12	CHANA RANJOJ DUS	CPP	VOLUNTEER	01815450210		
13	ENDROGID DUS	CPP	VOLUNTEER	01815460970		
14	NEY AMOT ULLAH	CPP	C.T.V	01815009209		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

Agenda: _____

Date: 30/05/2013 _____

Venue: CHAR CHANDIA UP (FENI) _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MD:SAMSUDDIN	UP	CHAIRMAN	01819832112		
2	MD:ABDUL HALIM	UP	SECRETARY	01717150515		
3	MD:FAYEZ SAHA	UP	MEMBER	018144163290		
4	MD:SAHAJAN	UP	MEMBER	01819636805		
5	MD:ELIAS	UP	MEMBER	01827369255		
6	ABU SUFIAN	UP	MEMBER	01824984745		
7	NUR HOSSAIN	UP	MEMBER	01817013554		
8	NUR ISLAM	UP	MEMBER	01816804450		
9	NUR NABI DODA	UP	MEMBER	01813955330		
10	ASIA BEGUM	UP	MEMBER	01828819635		
11	RINA AKTER	UPSOMAJ SEBOK	MEMBER	01827342152		
12	ANOWARUL ISLAM	UPSOMAJ SEBOK	BUSINESS	01819868579		
13	MUKSEUR RAHMAN	UPSOMAJ SEBOK	BUSINESS	01747854485		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

14	UTFAL HOQUE NAYON	SOMAJ SEBOK	TIKA	01811915621	
15	ABUL HASEM	SOMAJ SEBOK	BUSINESS	NILL	
16	ABDUL KUDDUS	SOMAJ SEBOK	BUSINESS	01817732066	
17	MAWLANA ZIUL HOQUE	SOMAJ SEBOK	TEACHER	01812874506	
18	MAWLANA SIRAJUL HOQUE	SOMAJ SEBOK	TEACHER	01814456786	
19	POLAS HOSSAIN	AGRICULTURE	A. AGRICULTURE	01812579527	
20	NASIR UDDIN	AGRUCULTURE	A. AGRICULTURE	01817311788	
21	GOLAM MOWLA	LOCAL GOVMNT	POLICE	01825031814	
22	ASHAN ULLAH MAMUN	RESPONDANCE	STUDENT	01816298429	ab- mamun786@yahoo.com
23	MOWLANA ABDULLAH	JOB	NGO	01815458740	
24	SAHAB UDDIN	LOCAL GOVMNT	POLICE	01811972986	
25	NASHIR UDDIN	LOCAL GOVMNT	POLICE	01837628543	
26	SUDAS RUDDRO	JOB	NGO	01717453701	sudas@gmail

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

Agenda:

Data: 28/05/2013

Venue: CHAR DORBES UP (FENI)

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	ABUL KALAM AZAD	UP	CHAIRMAN	01819803439		
2	ABUL KASHEM	UP	MEMBER	NILL		
3	NUR ALLM	UP	MEMBER	NILL		
4	NUR ISLAM	UP	MEMBER	01812669586		
5	ABUL KASHEM	UP	MEMBER	NILL		
6	ABDUL MALEAK	HIGH SCHOOL	TEACHER	01813668580		
7	TIPU MOJUMDER	HEALTH SECTOR	HEALTH ASSISTANT	01815337730		
8	ABU SUFIAN	UP	MEMBER	01815497834		
9	BIMOL CHANDRO MOJUMDER	RESPONDANCE	V.D	01814079863		
10	ABUL KALAM AZAD	RESPONDANCE	STUDENT	01814897145		
11	KHOTIJA BEGUM	UP	MEMBER	01843141113		
12	KOHINUR AKTER	UP	MEMBER	01822334968		
13	DOYLAT ARA	UP	MEMBER	01824916815		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

14	DOCTOR DULAL	HEALTH SECTOR	HEALTH	01819801381	
15	ABUL KASHEM	UP	MEMBER	01815499067	
16	NURA ZAMAN	RESPONDENT	OLD MAN	01815140122	
17	NADER UDDIN	RESPONDENT	OLD MAN	01817234949	
18	ATAUR RAHMAN	RESPONDENT	OLD MAN	01815930052	

PARTICIPANTS LIST

Agenda: _____

Date: 11:04:2013 _____

Venue: D.C OFFICE LAXMIPUR _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	A.K.M MIZANUR RAHMA	LAXMIPUR	D.C	01713121166	dclakshmipur@mopa.bd.com	
1	FARUQUE AHMMED	BRAC	REPRESENTATIVE	01759930280	faruque.ah@brac.net	
1	ABDUL GANI	BANGLADESH RED CRECENT SOCIETY	DISTRICT UNIT OFFICER	01821970946	ganibdr_c_s@gmail.com	
4	ARUNENDRA KISHORE	DISTRICT OFFICE	DRRO	01712205744	laxmipur@dmic.cdmp.org.bd	
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PARTICIPANTS LIST

Agenda: _____

Date:06:04:2013 _____

Venue: RAMGATI UPAZILLA CPP OFFICE _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MD:NURUL ISLAM	CPP	Deputy Team Leader	01716889674		
2	MD:MAIN UDDIN	CPP	Upazila Team Leader	01725921949		
3	MD:BALAYET SAROWAR	CPP	Union Team Leader	01729358562		
4	MD:GOLAM SAROWER	CPP	Union Team Leader	01753524171		
5	MDJAYNAL ABDIN	CPP	Union Team Leader	01739701061		
6	MD:ABDUL RASED	CPP	Union Team Leader	01821640366		
7	MD:ABDUL MANNAN	CPP	Union Team Leader	01722766232		
8	MD:SHARIF HOSSAIN	CPP	Union Team Leader	01740956144		
9	MD:B ABUL SARKER	CPP	Warless oparator	01558857679		
10	MD:ABDUL AZIZ	CPP	Union Team Leader	01731351731		
11	NAJRUL ISLAM	Daily Ittafaq	Correspondence	01711714779	Nir press @yahoo.com	
12	RASHEL HOQ	Ramgoli	Correspondence	01715311351		
13	SAJAHAN TALASHI	Daili Prothom Alo	Correspondence	01712147599		
14	KAZI DIDAR	Daily Songram	Correspondence	01820528038		

PARTICIPANTS LIST

Agenda: _____

Date:07:04:2013

Venue: RAMGOTI UPAZILLA PARISAD

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MOHAMMAD ABDUL SOBHAN	DEPARTMENT OF AGRICULTURE EXTION	UPAZILLA AGRICULTURE OFFICER	01712734937	subhan@yahoo.com	
2	MD:AMAN ULLAH	DMO	PIO	01713639214	pioaman@yahoo.com	
3	MD:SHAHINUL ISLAM	DEPARTMENT OF YOUTH DEVELOPMENT	UYDO	01711780932	Shahain 01011968@yahoo.com	
4	RASADUL HOQUE	PRESS CLUB RAMGOTI	PRACIDANT	01715321351		
5	MIR AKTAR	UNION PARISAD	CHAIRMAN	01715641744		
6	MAHTAB UDDIN	ALAKGENDAR KAMIL MADRASA	TEACHER	01717990513		
7	MAIN UDDIN	CPP	UTL	01725921949		
8	BABUL SORKAR	CPP	RADIO OPERATOR	01558857679		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

9	MOHAMMAD BELAL	CPP	CHAIRMAN	01770412323		
10	A.K.AHAED ULLAH	CPP	NIL	01714336689		
11	FAKRUL ALAM	NIJERA KORI(NGO)	REPRSENTINE	01718099770		
12	MD:ZAKIR HOSSAIN	DEPARTMENT OF FISHERIES	UPAZILLA FISHERIES OFFICER	01716402338	Zakir hossain40@yahoo.com	
13	BEGOM ROKEYA ASAD	UNION PARISAD	CHAIRMAN	01912633258		
14	A.S.M HASAN	RAMGATI UPAZILA PARISAD	UNO	01741510901		
15	SABED ALI	RAMGATI POROWSOVA	MAYER RAMGATI	01711168890		

PARTICIPANTS LIST

Agenda: _____

Date: 09/04/2013 _____

Venue: TALJR CHAR CHARMAN BAZAR _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	TARIKUL ISLAM	CPP	UNIT TEAM LEADER	01837852023		
2	SIRAJ ISLAM	CPP	UNIT TEAM LEADER	01845719125		
3	ZOYNAL ABADIN	CPP	UNION TEAM LEADER	01739701061		
4	ABUL KALAM	CPP	UNIT TEAM LEADER	01830963802		
5	ALAUDDIN	CPP	UNIT TEAM LEADER	01851080733		
6	SNUR MMOHAMMAD	UNION PARISAD	UNION TEAM LEADER	NIL		
7	BELLAL HOSSAIN	UNION PARISAD	CHARMAN	01770412323		
8	KABIR	CPP	UNIT LEADER	01834581585		
9	ABDUL BARI	CPP	UNIT LEADER	01840289395		
10	SABDUL KHALEAK	UNION PARISAD	UP MEMBER	S01827962216		
11	MOHI UDDIN	CPP	UNIT TEAM LEADER	S01837691213		
12	AZAD	UNION PARISAD	VILLAGE POLICE	S01821988458		
13	ABDUS SALAM	UNION PARISAD	UP MEMBER X	NIL		
14	MOHI UDDIN	UNION PARISAD	UP MEMBER	01834686246		

PARTICIPANTS LIST

Agenda: _____

Data: 10/04/2013

Venue: CHAR ABDULLAH UNION PARISAD

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	BELLAL HOSSAIN	UNION PARISAD	CHARMAN	01770412323		
2	MONIR HOSSAIN	UNION PARISAD	SECRETARY	01718376539		
3	MOHI UDDIN	UNION PARISAD	UNION PARISAD	01834686246		
4	NURNABI	UNION PARISAD	UNION PARISAD	01816322022		
5	IUB ALI	UNION PARISAD	UNION PARISAD	01829086878		
6	MOHIUDDIN	UNION PARISAD	UNION PARISAD	01837691213		
7	SAHABUDDIN	UNION PARISAD	UNION PARISAD	01812594483		
8	MONIR	UNION PARISAD	UNION PARISAD	01843432651		
9	LITON	VILLAGE	DOCTOR	01831381110		
10	KAMAL UDDIN	UNION PARISAD	NILL	01761735572		

PARTICIPANTS LIST

Agenda: _____

Date:07:04:2013 _____

Venue: ALEXANDER CPP OFFICE _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	GOLAM SARWOR	CPP	UNION TEAM LEADER	01753524171		
2	ABDULLA FARUK	CPP	UNIT TEAM LEADER			
3	ABDUR RAB	CPP	UNIT TEAM LEADER	01717422122		
4	MAHABUR RAHMAN	CPP	UNIT TEAM LEADER	01721979121		
5	MAIN UDDIN	CPP	UNIT TEAM LEADER	01725921949		
6	BABUL SARKER	CPP	RADIO OPARATER	01558857679		
7	ABDUL AZIZ	CPP	M.C.G	01731351731		
8	ABU TAHER	CPP	VOLUNTEAR	01728956556		
9	MD:SANAULLAH	CPP	UNIT TEAM LEADER	01722371251		

PARTICIPANTS LIST

Agenda: _____

Date: 25/04/2013 _____

Venue: Noakhali District _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	SERAJUL ISLAM	D.C OFFICE	DC	01720308645		
2	DR.ABDUR RASHED MOLLAH	HEALTH	CIVIL SARGON	01822879423		
3	MD.RAUSHAN ALAM	DPHE	EXCUTIVE ENGINEAR	01712248104		
4	MD.JASHIM UDDIN	EDUCATION	HEAD OF DEPARTMENT	01711021929		
5	SRINIBAS DEBNAT	AGRICULTURE	CPS	01816766953		
6	MD.RAFIQU L ISLAM MOGID	D.M.R.D	P.I.O	01711150105		
7	MD.DELUAR HOSSAIN	D.M.R.D	P.I.O	01818657010		
8	MD.EMDADUL HOQUE	D.M.R.D	P.I.O	01721654498		
9	A.B.M.SIRAJUL	D.D.M	P.I.O	01819383774		
10	ALI AHNNED MIA	D.D.M	P.I.O	01819692862		
11	MD.ABDUL GANI	D.D.M	P.I.O	01714402577		
12	CHODUROI	D.D.M	P.I.O	01819012933		
13	ADVOCATE M.A.HASEN	BRAC	LEGAL COMPRANCE LAYER	01720714961		
14	MD.MONIR HOSSAIN	CO-OPARATIVE	INSPECTOR	01712653573		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

15	MD.GOLAM MOSTOFA SORKER	FOOD	DC FOOD	01715148798		
16	MD.ABDUL MANNAN	VDP	DISTRICT COMMANDEND	01730038078		
17	MD.FAKRUL ISLAM	LGED	DISTRICT ENGINEAR	01716057007		
18	MD.SAHINUL ISLAM	D.P.E.O	ASSISTANT DISTRICT PRIMARY --	01712728231		
19	DR.MIZANUR RAHMAN	LIVESTOCK	VETERINARY SURGON	01718403006		
20	JAMAL UDDIN	DEO	VETERINARY	01712118705		
21	ISRAT JAHAN	ADMINISTRATION	UNO	01673299705		
22	BORHAN UDDIN	DISTRICT	DRRO	01732205558		

PARTICIPANTS LIST

Agenda: _____

Date: 21/04/2013 _____

Venue: HATIA UPAZILA CPP OFFICE _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	A.T.M.MOHI UDDIN	CPP	UPAZILLA TEAM LEADER	01820552154		
2	MD:NAJI MODDIN	CPP	MCG	01725053839		
3	NAJIM UDDIN	CPP	DRIVER	01723596555		
4	RATAN BEHARI DAS	CPP	UNIT TEAM LEADER	01713624645		
5	AMIRUL ISLAM	CPP	UNIT TEAM LEADER	01761742790		
6	SOTASSAR CHONDRO MOGURDAR	CPP	UNIT TEAM LEADER	01718619587		
7	MD:EFTAKER	CPP	UNIT TEAM LEADER	01716957577		
8	JOBAYER HOSSAIN	NGO	MANAGAR	01718334253		

PARTICIPANTS LIST

Agenda: _____

Date: 22/04/2013 _____

Venue: HATIA UPAZILLA PARISAD _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	MD:MAHIDUR RAHMAN	UPAZILA	UNO	01815648787	Mahid24gmail.com	
2	DILIP KOMAR GHOAS	UPAZILA EDUCATION OFFICE	EDUCATION OFFICER	01718583316	UEO Hatya@com	
3	KAMAL	UNION PARISAD	CHARMAN	01712107534		
4	HOMAYON KOBIR BABLU	UNION PARISAD	CHARMAN	01711323800		
5	JIYA ALI MOBAROK	UNION PARISAD	CHARMAN	01731047307		
6	TAJUL ISLAM	UPAZILA PARISAD	PIO	01720657799	Pio.tajul@gmail.com	
7	ALAUDDIN AZAD	UNION PARISAD	CHARMAN	01713629073		
8	ALHAJ MOHI UDDIN	UNION PARISAD	CHARMAN	01715077518		
9	MD:MONIRUL HOQUE	AGRICULTURE OFFICE	AGRICULTURE OFFICER	01716122615		
10	MD:SAIDUR RAHMAN	UT	UTO	01712089183		
11	MD:ALAUDDIN BABU	UNION PARISAD	CHARMAN	01712282503		
12						

PARTICIPANTS LIST

Agenda: _____

Date: 20/04/2013 _____

Venue: JAHAJ MARA UNION PARISAD CPP OFFICE

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	GIAS UDDIN	CPP	UNIO TEAM LEADER	01725369857		
2	MD:ALA UDDIN	CPP	VOLANTEAR	01713631309S		
3	KASHEM	CPP	VOLANTEAR	01732750321		
4	MAYEN UDDIN	CPP	VOLANTEAR	01827110171		
5	MOSTOFA KAMAL	CPP	VOLANTEAR	01823074496		
6	JABER	CPP	VOLANTEAR	01722516468		
7	JOHURA BEGUM	CPP	VOLANTEAR	01765859796		
8	MD:NESAR UDDIN	CPP	VOLANTEAR	01734489061		
9	MOSTAFIJUR	CPP	UNIT TEAM LEADER	01714520613		
10	MD:MOHI UDDIN	CPP	UNIT TEAM LEADER	01731351996		
11	MD:HASAN UDDIN BIPLOBS	CPP	UNIT TEAM LEADER	01718405408		
12	ABDUL KADER	CPP	CEAR TAKER	01720408519		
13	MOFIJ UDDIN	CPP	VOLANTESR	01756002400		
14	MD:HEMA YET	CPP	UNIT TEAM LEADER	01740972249		

PARTICIPANTS LIST

Agenda: _____

Date: 20/04/2013 _____

Venue: JAHAJ MARA UNION PARISAD _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	NIJAM UDDIN	UNION PARISAD	CHARMAN(VARPAPTO)	01715993831		
2	SAHELA BEGUM	UNION PARISAD	UP MEMBER	01735203688		
3	FAYEJ UDDIN	UNION PARISAD	UP MEMBER	01720170320		
4	ARSAD	UNION PARISAD	UP MEMBER	01731859148		
5	PARVIN AKTER	UNION PARISAD	UP MEMBER	01759148380		
6	ABUL BASAR	UNION PARISAD	UP MEMBER	01716079331		
7	MUKONDO KUMAR DAS	UNION PARISAD	UP MEMBER	01715436174		
8	JINNAT ARA SEULY	UNION PARISAD	UP MEMBER	01758131037		
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PARTICIPANTS LIST

Data: 22/04/2013

Venue: NIJUM DIP ISLAMPUR CPP OFFIC

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	FAJLUL KARIM	CPP	UNIO TEAM LEADER	01757180641		
2	KAZI MOLIBI NESAR	CPP	MEMBER	01754721186		
3	ABUL KALAM	CPP	MEMBER	01747710633		
4	MOHI UDDIN	CPP	MEMBER	01747214169		
5	ABUL KALAM	CPP	MEMBER	NIL		
6						
7						
8						

PARTICIPANTS LIST

Data: 22/04/2013

Venue: NIJUM DIP UNION PARISAD

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	RATAN	UNION PARISAD	UP MEMBER	01719211350		
2	ZAKIR	NIL	FARMER	NIL		
3	ABU BOKKOR	NIL	FARMER	01747620835		
4	ALAUDDIN	NIL	FARMER	01772034515		
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PARTICIPANTS LIST

Agenda: _____

Date: 14/04/2013 _____

Venue: SUBORNA CHAR UPAZILLA UNO OFFICE _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	KHALID MEHIDI HASAN	UPAZILLA PARISAD	UNO	01819248646		
2	SAYED MD:AYUB	CPP	MCC	01741109023		
3	SELIM	CPP	VOLANTEAR	01837499999		
4	EBRAHIM KHALIL	NIL		01736720129		
5	HARUN	NIL		01713605407		
6	SANAULLAH	CPP	TEAM LEADER	01721176543		
7	ABDUL HOQUE	CPP	TEAM LEADER	01710807583		
8	KHLEKUZZAMAN	CPP	TEAM LEADER	01721176833		
9	MIZANUR RAHMAN	CPP	TEAM LEADER	01718322347		
10	MORJINA AKTER	CPP		01718855359		
11	MD:ABDURRAB	CPP	UPAZILLA TEAM LEADER	01714733846		
12	HUMAYON KOBIR	CPP	CPP MEMBER	01722516216		

PARTICIPANTS LIST

Agenda: _____

Date: 18/04/2013

Venue: SUBORNO CHAR UPAZILLA UNO OFFICE(DISASTERCOMMUNITY)

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	KHALEAD MEHEDY HASAN	UPAZILLA PARISAD	UNO	01819248646	mehedy@yahoo.com	
2	KANGKARCHO BRAMON	URC	ASISTANCE INSTRUCTOR	01719463125	Kanekor.Barna@gmail.com	
3	NURUL ISLAM	UA VIDEO OFFICE	OFFICER	01721276955		
4	PONKOJ KUMAR DAS	VWA OFFICE	OFFICER	01712990765		
5	JAMAL UDDIN SORDAR	SAGORIKA NGO	MONITORING	01718549843	Jus bulbul 62 @gmail.com	
6	JAHANGIR ALLM	VSEO	OFFICER	01712716682	Jahangir8217@yahoo.com	
7	JIAUR RAHMAN	VLO	VLO	01726403722	ziamymos@gmail.com	
8	ESHAK HOSSAIN	PIO	PIO	01712770807	Engineer_istak@yahoo.com	
9	JOYEN UDDIN	UFO	OA	01912594368		
10	SAYED BELAYET HOSSAIN	COPARATIVE	IOS	01722449383		
11	ABDUL JOLIL	UEO	UEO	01730946405		
12	ABDUR RAB	CPP	UPAZILLA TEAM LEADER	01714733846		
13	MOHAMMAD HOSSAIN	UNION PORISAD	CHARMAN	01715034559		

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area

14	ABUL BASAR MUNJU	UNION PORISAD	CHARMAN	01711286008	
15	MD:HANIF CHODURI	NIL	CHARMAN	01715431780S	

PARTICIPANTS LIST

Agenda: _____

Date: 16/04/2013 _____

Venue: MOHAMMADPUR UNION PARISAD CPP OFFICE

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	KHALEQUZZAMAN	CPP	UNION TEAM LEADER	01721176833		
2	AHSANULLAH	CPP	UNION TEAM LEADER	01831381556		
3	ABDUL MANNAN	CPP	UNIT TEAM LEADER	01715678639		
4	NUR NABI	CPP	UNION TEAM LEADER	01716660371		
5	NUR NABI	CPP	UNIT TEAM LEADER	01740850263		
6						

PARTICIPANTS LIST

Agenda: _____

Date: 17/04/2013 _____

Venue: MOHAMMADPUR UNION PARISAD

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	ADVOCATE ANAMUL HOQUE	UNION PARISAD	CHARMAN	01713632127		
2	ABDUL BATEN	UNION PARISAD	MEMBER	01746045117		
3	KHORSED ALAM	UNION PARISAD	MEMBER	01715448701		
4	NUR HOSSAIN	UNION PARISAD	MEMBER	01839704973		
5	NUR ALAM	UNION PARISAD	MEMBER'S HUSBAND	01731345460		
6	NOBI ALAM	CPP	VHF OPARATER	01716660371		
7	KHOLIL	UNION PARISAD	MEMBER	01740639850		
8	NURULLAH	UNION PARISAD	MEMBER'S HUSBAND	01722201183		
9	SAMSUL	UNION PARISAD	FARMER	NIL		
10	BABUL	UNION PARISAD	MEMBER	01735544588		
11	JAHANGIR	UNION PARISAD	SECRETARY	01716494239		
12	ASRAF HOSSAN	CPP	CPP VOLANTEAR	01811634007		
13	ABDUL SOHID	NIL	BUSINESS	01731632984		

PARTICIPANTS LIST

Agenda: _____

Date: 17/04/2013 _____

Venue: PURBO CHAR BATA UNION PARISAD _____

No.	Name	Affiliation	Position	Mobile Number	E-mail Address	Signature
1.	ABUL BASAR MUNJU	UNION PARISAD	CHARMAN	01711286008		
2	ANOWAR HOSSAN	UNION PARISAD	SECRETARY	01740934775		
3	BELLAL HOSSAIN	UNION PARISAD	UP MEMBER	01723287624		
4	JAHANGIR ALAM	UNION PARISAD	UP MEMBER	01827299873		
5	JAMAL	UNION PARISAD	UP MEMBER	01815124560		
6	TASLIMA	UNION PARISAD	UP MEMBER	01747276071		
7	SAHIN AKTER	UNION PARISAD	UP MEMBER	01822164436		
8	ALEYA	UNION PARISAD	UP MEMBER	01828583654		
9	SAIFUL ISLAM	UNION PARISAD	UP MEMBER	01710807445		
10	KHOBIR AHMMED	UNION PARISAD	UP MEMBER	01713602584		
11	AZIZUR	NIL	RESPONDENCE	01710978570		
12	NUR NABI	UNION PARISAD	MEMBER(X)	01716062154		

Appendix 2-2
Khulna Division

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Shukur Ali	Deputy Commissioner	Bagerhat DC Office	01720460406
Md. Atahar Mia	DRRO	Bagerhat Disaster Relief & Rehabilitation Office	01823439335
Ratan kumar das	Head Assistant	Bagerhat Disaster Relief & Rehabilitation Office	017126770588

(3) Responding Date and Hour

13 / 04 / 2013 at 4.00 pm

(4) Responding Place

DRRO, Bagherhat

(5) Interviewer

Shariful Islam



Bagerhat DC office



DRRO, Bagerhat District

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

District relief and rehabilitation office

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

District relief and rehabilitation office

(3) Number of Human Resources

Quorum: 18

Enrollment: 36

(4) Population and Number of Household

Year: 2011

Source: Family planning and birth data

Population:

Male: 832417 Female: 765137 Total: 1597554

Number of Household: 298259

(5) Area

3959.11 Square kilometer/Hectare

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	9 and 3 pourasava		
Number of Union	75		
Number of Gram	1047		
Number of ward	675 ward and 27 ward in 3 pourasava		
Number of Polder			

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture	More than 10,000	Around 10000 people are involved with

		manufacturing cement. During the sidr time, cement and oil industry were closed for 10 days.
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. Weather office, Mongla, Locally Metrological observation station does not produce data to the community people. They directly send the data to Dhaka.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? Mongla
- If yes, do you have map of these locations or can you put the locations on the map? Inside the port office of Mongla
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

Warning notice actually coming from storm weather station, Dhaka office. The data Dhaka office sending, might be accurate for Pirojpur district, but not accurate for Bagerhat district.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	never	
Flash flood	never	
Inside water inundation		
Cyclone	2007, 2009	Around 908 dead in 2007 and 4 dead in 2009

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?
 - A: Disaster management committee G: NGO (Prashar, JJS,Kodec, Islamic relief, Muslim aid, Asroi foundation etc)
 - B: Disaster Relief & Rehabilitation Office H:
 - C: CPP I: School management committee
 - D: Upozila disaster management committee J:
 - E: Union disaster management committee K:
 - F: Poursava disaster management committee L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District	B, C	C, E	I	C, D, E	C, D, E, G	E	E	G	C, D
Upazila									
Union									
Gram									
Para									
Individual									
CPP									

injured people (GR cash),

people sometimes don't rely on the warning.

- Do you have any issues and problems regarding communication method?

It is better to receive the initial warning over phone rather fax. If there is no electricity, they cant receive the fax.

- Do you have communication radio in the district/ upazila/ unit?

6 but no use of it. Most of the time the radio's are out of order. District communication radio is working good.

- How many percent does mobile phone cover in the area?

60%

- How many percent does Mosque Microphone cover in the area?

65%

- How many percent does commercial power supply cover the area?

15%

- How many percent do residents have solar power system?

5%

- How many percent do residents have mobile phones?

80%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

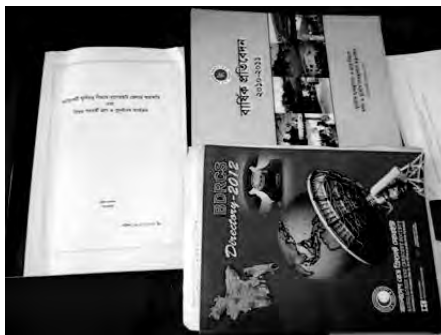
DMIC

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

Follow SOD



(2)Shelter Management

School management committee, Union parishad manage the cyclone shelter.

(3)Rescue and Search

During the disaster time, all local government and CPP conduct rescue and search

(4)Sufferer Help

Local government agencies, CPP and NGO's help the sufferer during the disaster time

(5)Damage Survey

Union parishad, upozila parishad and CPP conduct damage survey

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget: Rice and cash money

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter. yes
 - evacuation route: yes
 - shelter capacity: considering the population more cyclone shelter is necessary to accommodate all residentials.
 - storage of food and water, and so on: union parishad and school

(2)Current Condition of shelters

- Number of shelters : 201 Existing: Plan:13
- Total capacity : 185155 Population ratio
- Solo use: Multi use 201
- Other purposes of multiuse shelter: schoo, union parishad office
- Do you think the shelters have enough height for tidal wave/ flood? Not all

(3)Operation / Management

- Owner
Union parishad and school management committee
- Operation/ Management

Union parishad and school management committee

- Cost burden

School management committee

(4) Shelter Management Manual

- Do you have a shelter management manual? no

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
Yes, once a month
- Do you have obligation to record activities under state of emergency and report it?
yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	CPP, UP, Upazila parishad	
	Agriculture	CPP, UP, Upazila parishad	
	Fisheries	CPP, UP, Upazila parishad	
	Manufacture	CPP, UP, Upazila parishad	
Public Sector	Road, Bridge	CPP, UP, Upazila parishad	
	Dike	CPP, UP, Upazila parishad	
	Public Utilities	CPP, UP, Upazila parishad	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	cyclone	Cyclone			
Type	Aila	Sidr			
Start Date	25.05.2009	15.11.2007			
End Date	25.05.2009	15.11.2007			
Maximum Wind Velocity	92 km/hour	220km/hour			
Highest Sea Level	15 feet	20 feet			
Total Rainfall					
Dead Missing	4	908			
Injured	281	11428			
Total Collapse Houses	9052	65583			
Half Collapse Houses	67654	121462			
Total Collapse Dike	21	5 km embankment			
Half Collapse Dike	62				
Inundation Area	574.33 sq km	90%			
Inundation Depth	15 feet	20 feet			
Agriculture Damage	50305591 taka	Total-12000 hector and parcially-96147 hector			
Fisheries Damage	5638087000 taka	8889.61 hector area			
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: sidr (15.11.2007)
- Record of activities including time series, if any. no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

On the sidr day, in the morning time, nobody take the warning seriously. Even the response from the national level wasn't that much of serious.

✓ Alert and Warning Stage:

From 10.00 am in the morning to 7 pm in the evening all warning signals were send to upozila, union and unit level.

✓ Disaster Stage

At this stage total coordination broke down in all level.

✓ Rehabilitation Stage

All government agencies, private agencies and CPP worked together in order to reduce the damage.

- How many percent of residents did evacuate to shelters?

7%

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.
2. They stayed the houses even after the warning.

(Please describe the reason:

)

Nobody expect the hardest attack by the sidr. Moreover the warning didn't reach to all levels due to lack of equipments. There were not much cyclone

shelter in Bagerhat at 2007. So it wasn't possible to accommodate all residents in the shelters.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	10.00 am	Received	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	11 Level 8-10 Level 6 Level	Notice Recommendation Order		Fax	cautionary I warning	Called meeting	
2	Passing	15.11.2007	10.15	Send	DRRO	Upozila Office (uno)	1-3	Notice	Phone	Fax	cautionary verbal warning	Inform Upozila Disaster management committee	
3	Approaching	15.11.2007	12.00 to 4.30	Received	Stroom warning centre	Upozila Office (uno)	4-7	recommendation	phone	fax	Warning level and to prepare to move for shelter	Called emergency meeting and inform all government agencies and CPP	Not many shelters to accommodate and people didn't rely on warning
4	Passing	15.11.2007	12.00 to 4.30	send	DRRO	Upozila disaster management committee and UNO	4-7	recommendation	phone	Fax	Warning level and to prepare to move for	Inform all union chairmen and CPP	Not much shelter and warning

5	On going	15.11.2 007	6.00 pm	Received	DRRO	Upozila level	8-10	Order	phone	To evacuate and come to cyclone shelters	Annou nced over Mega Phone	equip ments
6	Passing	15.11.2 007	4.00 pm to 5.00 pm	send	Upozila disaster management committee and UNO	Union chairman and union disaster managemen t committee	4-7	Order	Phone and face to face	Warning level and to prepare to move for shelter	Informe d CPP team leaders	Not much shelter and warnin g equip ments

12. Others

Please describe other issues and problems or important information.

- Problem with the manpower
- There is not much coordination.
- There is also communication gap of actual scenario and the real occasions.
- They're supposed to be one engineer with PIO.
- This DRRO branch also not engaged with the DC office.
- The assistant of the DRRO never got any training.

Dead toll of 2007 sidr

SL No	Name of the Upazilla	Death Toll
1	Bagerhat Sadar	09
2	Sarankhola	671
3	M0ngla	101
4	Morelgonj	93
5	Kachua	12
6	Rampal	07
7	Fakirhat	02
8	Mollahat	02
9	chitalmari	11
Total		908



Bangla new year day

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Dr. Md. Mizanur Rahman	UNO	Mongla Upozila	01716231197
Md. Idris Ali	Chairman	Mongla pourasova	01711342735
Yunus Bhuyial	CPP upozila Deputy team leader	Mongla upozila	01918808002
Md. Marif Billah	Member		01912457665
Md. Nahiduzzaman	PIO	Project Implementation office	01716611303
Shek Hasibur Rahman	Assistant to the PIO	Office Assistant to the PIO	01731930225

(3)Responding Date and Hour

15 / 04 / 2013

(4)Responding Place

Upozila office

(5)Interviewer

Shariful Islam



Discussions with UNO and PIO of Mongla upozila on disaster management

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

Mongla upozila, Bagherhat

(2) Organization Chart

- Could you provide the latest organization chart? if any. No chart
- Which departments/units are in charge of disaster management in the latest organization chart?

Upozila disaster management committee

(3) Number of Human Resources

Quorum:9

Enrollment:27

(4) Population and Number of Household

Year: 2011 Source: Population survey

Population:

Male: Female: Total: 96,751

Number of Household: no information

(5) Area

361072 acre



Mongla upozila parishad building

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		6 union, 1 pouroshava	
Number of Gram		63	
Number of Para/unit		64	
Number of Polder		1	

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
----------	------------	---------------------------

Agriculture		
Fisheries		
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Mongla uozila map

Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

PIO has no idea about hydrologic observation station. But we visited one hydrological observation station





Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

From the observation stations all the information's goes to Dhaka. They don't share the information with the local community.

3. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007 and 2009	Around 101 people died in 2007

4. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee

G: NGO (proshar, Nabadut)

B: Disaster Relief & Rehabilitation Office

C: CPP

I:

D: Upozila disaster management committee

J:

E: union disaster management committee

K:

F: school management committee

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C	C,d,e	C,f	C,e,d	C,d,e	C,e	C,g	g	C
Gram									
Para									
Individual									
CPP									

5. Normal Time Activities



CPP upozila team leader

5.1 Structural Framework

(1) Number of Human Resources

Full-time: Part-time:
CPP: 3 Volunteer: 960
Upazila: 2

(2) Office and Equipments

Sole use office room: 1
CPP:
Equipments : 1 Desks File cabinets
 Copy machine 1 Computers
Upazila: 12 desk, 2 cabinet, 1 computer

5.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?
CPP: YES
Upozila Parishad: Upozila disaster management committee only follow SOD.
- Planning/Reviewing/Updating disaster management plan:
CPP: Yes but practically no exercise of it
UPOZILA: They conduct a meeting once a month
- Staff training: no
- Emergency drill at district/ Upazila/ Union level”
CPP: yes, 3 times a year
Upozila: no
- Equipment maintenance:
CPP: they do whatever they can, but they don't have any budget for that
Upozila: they don't have any equipment



- Inter organizational/Stakeholder meeting:
 CPP: yes, monthly 2 times
 Upozila: once a month
- Drawing/Reviewing/Updating hazard map:
 CPP: yes
 Upozila: no
- Residents awareness campaign:
 CPP: yes, once a year
 Upozila: once a month
- Residents evacuation drill:
 CPP: no
 Upozila: Once a year

5.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

This year (2013) EGPP- 38192000 taka, Test Relief- 667 Mt rice and Kabikha- 743 Mt of rice is allocated. No budget is allocated for disaster management and early warning.

Activities under State of Emergency

5.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
CPP: no
- Please describe gaps between the SOD and actual activities? If any.

(1) Number of Human Resources

- How many staffs are mobilized?
- Do you have any regulations/ rules for mobilization of staffs?

(2) Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
CPP: Upozila office
Others:
- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receiver

5.5 Warning

(1) Warning

- Where do you receive the warning form? What is communication method?
CPP: Dhaka weather forecast department/Mobile
DMC: upozila/ phone
- Where do you send the warning to? What is communication method?
CPP: Union team leader/mobile
DMC: Union chairman/Mobile
- How long does it take usually since receiving till sending information?
CPP: 5-6 minutes
DMC: 10 minutes

- Contents of warning : Which warning signal levels do you use?
 11 levels 10 Levels 6 levels Others:
 CPP: 10 level
 DMC: 10 level

- Do you have any issues and problems regarding warning contents?
 CPP: People don't understand the signal meaning. Sea port and river port signal is the same. 1, 2, 3--- same message, 4,5,6—same message, 8, 9 10...same message
 DMC: warning should be accurate

- Do you have any issues and problems regarding communication method?
 CPP: wireless should be better to send the messege. Sometimes mobile phone get off
 DMC: no

- Do you have communication radio in the district/ upazila/ unit?
 CPP: yes
 CPP: one

- How many percent does mobile phone cover in the area?
 CPP: 85%
 DMC: 90%

- How many percent does Mosque Microphone cover in the area?
 CPP: 45%
 DMC:50%

- How many percent does commercial power supply cover the area?
 CPP: 20%
 DMC: 15%

- How many percent do residents have solar power system?
 CPP:30%
 DMC: 30%

- How many percent do residents have mobile phones?

CPP: 60%

DMC: 70%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

CPP: CPP head quarter

DMC: DRRO

5.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance:

CPP: yes

DMC: follow SOD

(2)Shelter Management

CPP: only in the emergency time

DMC: school management committee

(3)Rescue and Search:

CPP: yes

DMC: union parishad and upozila porishad

(4)Sufferer Help:

CPP: yes

DMC: all local government agencies work together

(5)Damage Survey:

CPP: yes

DMC: union parishad and CPP

(6)Other

5.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

CPP: no

DMC: no

6. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter
 - CPP: yes
 - DMC: yes
 - evacuation route:
 - CPP: yes
 - DMC: yes
 - shelter capacity:
 - CPP: don't know
 - DMC: not enough
 - storage of food and water, and so on:
 - CPP: school

(2)Current Condition of shelters

- Number of shelters : Existing: 35 Plan:
- Total capacity : 27,100 Population ratio
- Solo use: Multi use
- Other purposes of multiuse shelter: school
- Do you think the shelters have enough height for tidal wave/ flood?yes

(3)Operation / Management

- Owner
 - School management committee and CPP
- Operation/ Management
 - School management committee
- Cost burden





Visiting Mongla cyclone shelter

(4) Shelter Management Manual

- Do you have a shelter management manual?

No

Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it?
 CPP: report once a month
 DMC: once a year
- Do you have obligation to record activities under state of emergency and report it?
 CPP: once a day they report
 DMC: yes

(6) Damage Records

- Do you have obligation to survey disaster damage and report it?
 CPP: yes
 DMC: yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, up	
	Injured	CPP,UP	
	Evacuees	CPP,UP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics			

7. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone	cyclone			
Type	Aila	sidr			
Start Date	25.04.2009	15.11.2007			
End Date	25.04.2009	15.11.2007			
Maximum Wind Velocity	90km/hour	220km/hour			
Highest Sea Level		22 feet			
Total Rainfall					
Dead Missing	0 0	101			
Injured	No information				
Total Collapse Houses	1247				
Half Collapse Houses	20233				
Total Collapse Dike					
Half Collapse Dike					
Inundation Area	158.20 sq km				
Inundation Depth	5 feet				
Agriculture Damage	1560000 taka				
Fisheries Damage	454024000 taka				
Economic Losses					
Others					

No information on 2007 sidr was found in Mongla upozila office

Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
CPP: sidr
- Record of activities including time series, if any.
DMC: no record found
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:
CPP: they need early warning equipments, and some budget to maintain the equipments
- ✓ Alert and Warning Stage:
CPP: they need cycle for the volunteers to inform the community people about the warning. They need to store some medicine for storage. They need some training . more cyclone shelter is necessary
- ✓ Disaster Stage:
CPP: they face problem with the drinking water.
- ✓ Rehabilitation Stage:
CPP:
- How many percent of residents did evacuate to shelters?
CPP: 5 to 10 % move to shelter but more than 50 % moved to safe shelter
DMC: 5%

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason: due to lack of equipments warning didn't deliver to the all community people and some people stayed in the house even after the warning

)

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

8. Others

Please describe other issues and problems or important information.

- In Mongla Upazila PIO joined recently and there were no PIO in mongla upozila before
- CPP working in mongla upozila for the last one year.
- That's why we were unable to collect all information's from this upozila

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Idris Ali	Chairman	Mongla Upozila	01711342735
Sesh Majaharul Islam	Chairman	Chila union	01712065018
Md. Halim Hawladar	Member	Cop, Chila union	01712662648
Marium Begum	Member	CPP, unit 7,8,9	01752008661
Md. Ataur rahman	secretary	Chila union Parishad	01724039616

(3) Responding Date and Hour

17 / 04 / 2013

(4) Responding Place

Chila union parishad



(5) Interviewer

Shariful Islam

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Chila union parishad

(2) Organization Chart

- Could you provide the latest organization chart? if any. No
Chairman-secretary-12 ward members-7 village police
- Which departments/units are in charge of disaster management in the latest organization chart?

Union disaster management committee



(3) Number of Human Resources

Quorum: 13

Enrollment: 39

(4) Population and Number of Household

Year: 2013

Source: Union Parishad

Population:

Male: 49% Female: 51% Total: 20973

Number of Household: 4563

(5) Area

7541 acre

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			14
Ward			9
Number of Para/ mouza			3
Number of Polder			015

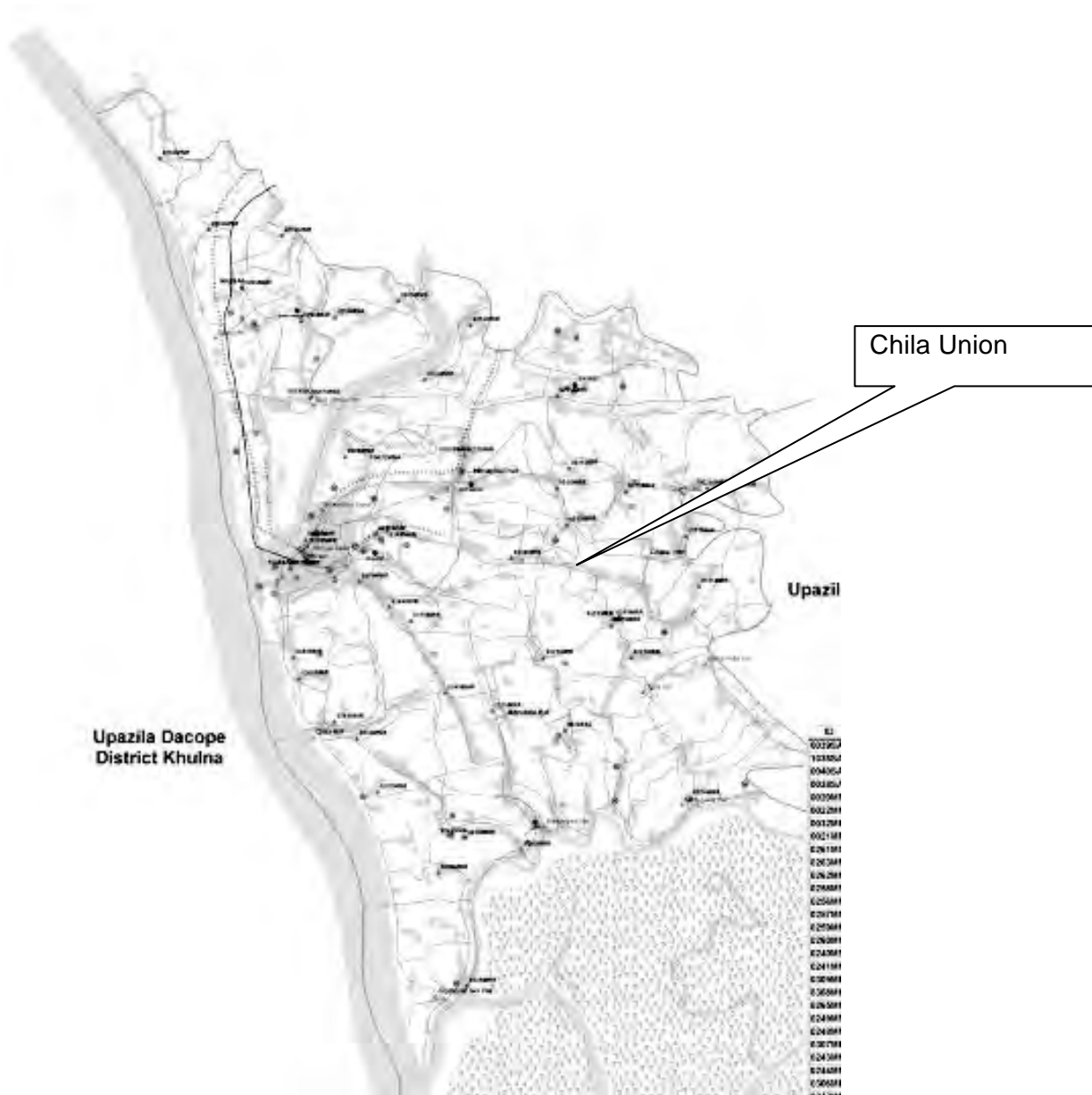
(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service	400	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Chila union is showing on the map

Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No idea

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

3. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007,2009	5 died aila 2009,

5. Normal Time Activities

5.1 Structural Framework

(1) Number of Human Resources

CPP: 135

DMC: 36

Full-time: Part-time:

(2) Office and Equipments

Sole use office room

Equipments :	4 Desks	2 File cabinets
	Copy machine	3 Computers

5.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?
UDMC: every 2 months one meeting
- Planning/Reviewing/Updating disaster management plan
UDMC: no
CPP: no
- Staff training
UDMC: no
CPP: no
- Emergency drill at district/ Upazila/ Union level
DDMC: every month they have drill with NGO, Government
CPP: no
- Equipment maintenance
UDMC: 2 hand mike they have
CPP: yes
- Inter organizational/Stakeholder meeting
UDMC: yes they do in every 2 months
CPP: every 2 months
- Drawing/Reviewing/Updating hazard map
UDMC: no
CPP: no
- Residents awareness campaign
UDMC: 6 times yearly
CPP: 3 times in a year

- Residents evacuation drill
UDMC: no
CPP: no

5.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.
All budgets are for Kabikha, EGPP, TR

- How long does it take usually since receiving till sending information?
DMC: 10-15 minutes
CPP:” 10 minutes
- Contents of warning : Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?
DMC: don't get information on time
CPP: no
- Do you have any issues and problems regarding communication method?
DMC: Ok, But wireless or settlelight mobile should be ok
- Do you have communication radio in the district/ upazila/ unit?
DMC: no
CPP: no
- How many percent does mobile phone cover in the area?
DMC: 65%
CPP: 65%
- How many percent does Mosque Microphone cover in the area?
DMC: 45%
CPP: 45%
- How many percent does commercial power supply cover the area?
UDMC: 0%
CPP:0.5%
- How many percent do residents have solar power system?
DMC: 70%
CPP: 70%
- How many percent do residents have mobile phones?

DMC:30 %

CPP:50%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
upozila

6.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance:

DMC: no activities are there. But during the emergency time all local people work together

(2)Shelter Management:

DMC: school committee

(3)Rescue and Search:

DMC: 3 times yearly

(4)Sufferer Help

DMC: All organizations in the union parishad

(5)Damage Survey:

DMC: they have conducted the survey

(6)Other

6.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter
 - DMC: yes
 - CPP: yes
 - evacuation route: yes
 - shelter capacity: more shelter necessary
 - storage of food and water, and so on

(2)Current Condition of shelters

- Number of shelters : Existing: 6 Plan:
- Total capacity : 2100 Population ratio 9%
- Solo use:0 Multi use 6
- Other purposes of multiuse shelter: school
- Do you think the shelters have enough height for tidal wave/ flood?



(3)Operation / Management

- Owner:
 - school
- Operation/ Management
 - School management committee
- Cost burden
 - School management committee/ but they don't have any budget for that

(4)Shelter Management Manual

- Do you have a shelter management manual?
 - DMC: no

8. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
DMC: no activities
- Do you have obligation to record activities under state of emergency and report it?
DMC: yes they have to report during the emergency time

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
DMC: they do
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	CPP, UP	
	Agriculture	CPP, UP	
	Fisheries	CPP, UP	
	Manufacture	CPP, UP	
Public Sector	Road, Bridge	CPP, UP	
	Dike	CPP, UP	
	Public Utilities	CPP, UP	
Generalization, Statistics			

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone				
Type	Aila				
Start Date	25/05/2009				
End Date	25/05/2009				
Maximum Wind Velocity	90 km/hour				
Highest Sea Level					
Total Rainfall					
Dead Missing	3				
Injured	400				
Total Collapse Houses	500				
Half Collapse Houses	3000				
Total Collapse Dike					
Half Collapse Dike					
Inundation Area	100%				
Inundation Depth	5 feet				
Agriculture Damage	100%				
Fisheries Damage	100%				
Economic Losses	More than 100 crore				
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.

- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:
There is no budget for the normal time activities

- ✓ Alert and Warning Stage:
CPP and Union parishad don't have enough equipment to warn the whole community

- ✓ Disaster Stage

Main road was unusable during the sidr time and mobile network get disconnected.

- ✓ Rehabilitation Stage
All organizations work together at this stage.

- How many percent of residents did evacuate to shelters?

3 %

- What were the causes of deaths? Please select below.
 1. Warning didn't deliver to the residents.
 2. They stayed the houses even after the warning.

(Please describe the reason: They stayed in the house even after the warning

)

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		
									-Fixed-line phone	-Cell-phone	-Radio
1	As the CPP and PIO is new in Mongla upozila, we haven't found any record				-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order			
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											

11. Others

Please describe other issues and problems or important information.

- Early warning equipments is necessary. They only have 2 hand mike.
- Transport facility for the volunteer.
- Training facility for the union UDMC and CPP

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
K.M.Mamunuzzaman	UNO	Sarankhola Upozila	01715838528
Md.Nasir Uddin	PIO	Sarankhola Upozila	01725889863
Md. Rustom Ali	Office assistance, PIO	Sarankhola Upozila	01719015153
Alamgir Hossain	CPP	Assistant Director, Sarankhola upozila	01728837869
Habibur Rahman Fokir	CPP	Team Leader, CPP	01715857029

(3)Responding Date and Hour

22 / 04 / 2013 at 10.00 am

(4)Responding Place

Upazila CPP and PIO office

(5)Interviewer

Shariful Islam



2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

Saronkhola CPP Office and Upozila Parishad

(2) Organization Chart

- Could you provide the latest organization chart? if any.
 CPP: Upozila team leader- Upozila deputy team leader- 4 union team leader-38 unit team leader- 540 volunteers
 Upozila: UNO-Upozila disaster management committee-Member secretary-Union disaster management committee
- Which departments/units are in charge of disaster management in the latest organization chart?
 Upozila Disaster management committee

(3) Number of Human Resources

Quorum: Enrollment:
 CPP: 540
 Upozila: 40

(4) Population and Number of Household

Year: 2011 Source: Population census

Population:
 Male: Female: Total:128000
 Number of Household: 27000

(5) Area

151.23 Square kilometer

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		4	
Number of Gram		44	
Number of Para/mouz		11	
Number of Polder		1	

(7) Outline of Industry

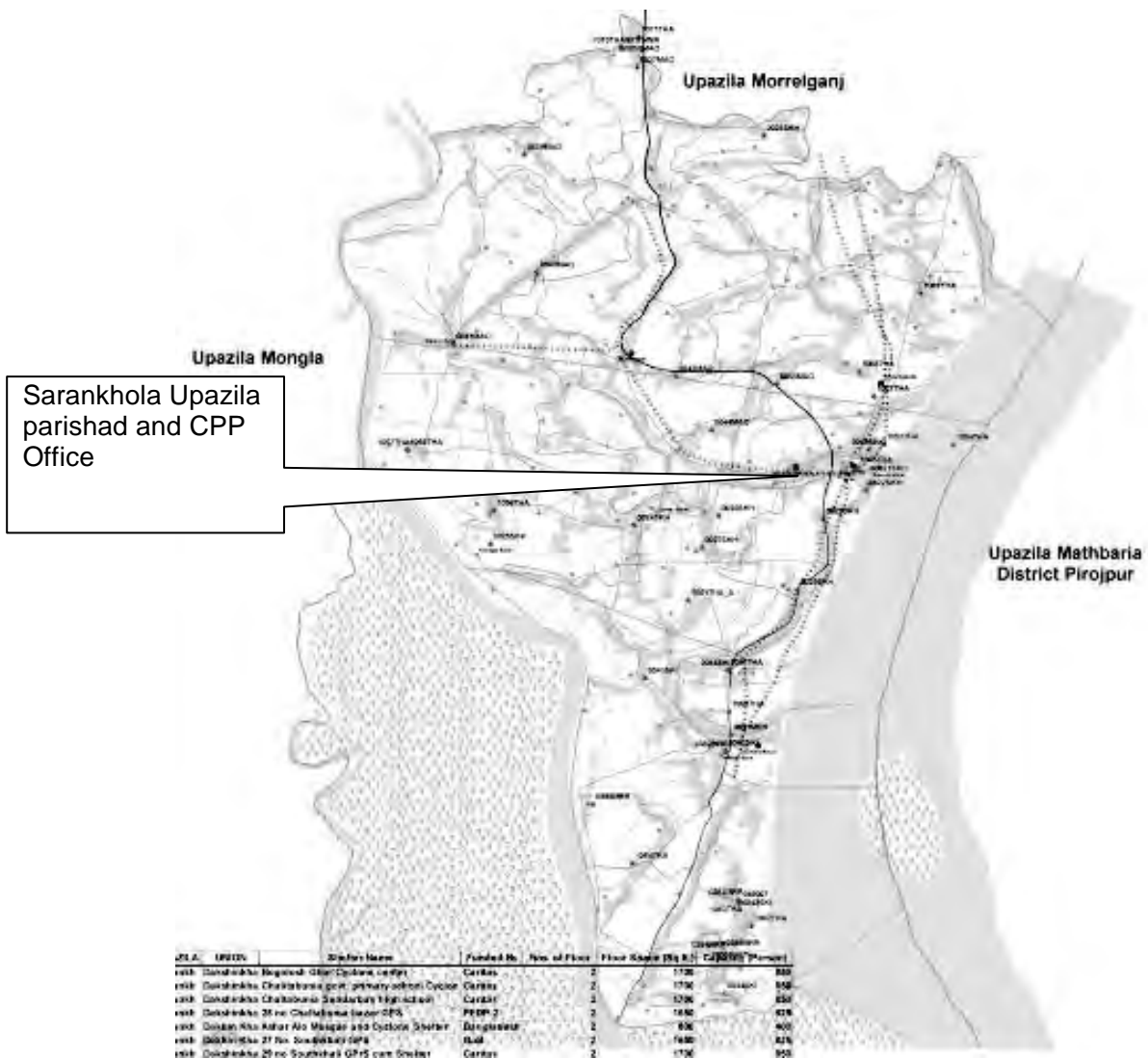
- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
----------	------------	---------------------------

Agriculture		In 2009, Total agricultural damage was 21000000 taka and partial damage-404800 taka
Fisheries		In 2009, Shrimp cultivation-6300000 taka
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. no
Rainfall: Wind:

River level: Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007, 2009, 1970, 1988	In 2007- dead-671

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee

G: School and Madrasa management committee

B: Disaster Relief & Rehabilitation Office

H: UNION PARISHAD

C: Upozila disaster management committee

I:

D: upozila CPP

J:

E: NGO (JJS, Astroi foundation, PCI)

K:

F: union CPP

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	C, D, F	C, D, F	G	C, D, F	C, D, F, H, E	H, D, F	E, H	E, H	D, F, E
Union									
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: Part-time:
CPP: 4 Volunteer: 540
Upazila: 2 Part-time-1

(2) Office and Equipments

Sole use office room

Equipments : Desks File cabinets
 Copy machine Computers

CPP: 2 desks, 1 file cabinet,

Upazila: 2 desks, 1 file cabinet, 1 computer, 1 photocopy machine

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?
CPP: follow SOD
Upazila: follow standing order/ once a month with different NGO's
- Planning/Reviewing/Updating disaster management plan
CPP: no
Upazila: no
- Staff training
CPP: no training facility. But volunteer got 1 training in last 20 years. Internally CPP conduct some training. From government they don't receive any training.
Upazila: no
- Emergency drill at district/ Upazila/ Union level
CPP: In the last 20 years they conduct 1 drill
Upazila: 2 times in a year
- Equipment maintenance
CPP: they don't have any fund. If any equipments don't work, they send it to Dhaka and in zonal office. True is, those equipments never come back
Upazila: YES
- Inter organizational/Stakeholder meeting
CPP: 6 times in a year
Upazila: check the equipments once a month
- Drawing/Reviewing/Updating hazard map
CPP: no

Upozila:no

- Residents awareness campaign

CPP: once in last 20 years

Upozila: they don't do but Different NGO's conduct the awareness campaign

- Residents evacuation drill

CPP: once in last 20 years

Upazila: No budget for that

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.
CPP: 12,000 in the 3 months (office rent, service, Electric bill, peon, etc)

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management	0		0		0	
Early Warning	0		0		0	

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
Upazila: they follow
- Please describe gaps between the SOD and actual activities? If any.

CPP: In order to maintain the SOD, budget is necessary. Because, in the SOD, almost every day a meeting have to conduct. But without the fund it is really hard to conduct meeting every day. For maintaining the equipments, there is no budget.

Upazila: Union secretary should be included in the Upazila disaster management committee.

(1)Number of Human Resources

- How many staffs are mobilized?
CPP: 15 team leader, but in the emergency case, all volunteer work
Upazila: 0
- Do you have any regulations/ rules for mobilization of staffs?

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time / UNOoffice
Others:
- Equipments :

1 Desks	0 File cabinets
1 Copy machine	1 Computers
0 UPS	Internet
0 TV set	0 Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
CPP: Cpp head quarter/ HF
Upozila: DRRo/phone

- Where do you send the warning to? What is communication method?
 CPP: all union team leader/ VHF (one union) and rest of the union over phone
 Upozila: Union disaster management committee/phone

- How long does it take usually since receiving till sending information?
 CPP: 5 minutes
 Upozila: 10

- Contents of warning : Which warning signal levels do you use?
 10 Levels

- Do you have any issues and problems regarding warning contents?
 CPP: Warning is general, but if the warning is specific for the particular area, it would be good. CPP believe that if the warning was issued upozila of zila wise specifically, than they could be more serious
 Upazila: no, DRRO say that in ur upozila sinnal number 3 is going on

- Do you have any issues and problems regarding communication method?
 CPP: they need more VHF union level. They have 1 VHF in 1 union. One VHF is necessary in each union in order to communicate with the union leaders.
 Upozila: yes. PIO receive message from CPP before DRRO

- Do you have communication radio in the district/ Upazila/ unit?
 CPP: 2
 Upazila: no

- How many percent does mobile phone cover in the area?
 CPP: 70%- 75%
 Upazila: 90%

- How many percent does Mosque Microphone cover in the area?
 CPP: 50 %
 Upazila: 50%

- How many percent does commercial power supply cover the area?

CPP: 10 %

Upazila: 5%

- How many percent do residents have solar power system?

CPP: 10 %

Upazila: 15%

- How many percent do residents have mobile phones?

CPP: 60%

Upazila: 80%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

CPP: CPP head quarter

Upazila: DRRO

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance:

CPP: Together with the local government, they conduct the evacuation process

Upazila: no

(2) Shelter Management:

CPP: School management committee manage the shelter. But there are 3 cyclone shelter constructed by the red-cross. Redcross cyclone shelter management committee manage those 3 shelter

Upazila: Schoola and madrasha management committeee

(3) Rescue and Search

CPP: there is one rescue team in each unit for rescue and search. But they don't have any supporting equipments for rescue.

Upazila: during the disaster time CPP, UDMC, all local government agencies and

private agencies work together

(4) Sufferer Help:

CPP: 1st aid team help the sufferer.

Upozila: during the disaster time CPP, UDMC, all local government agencies and private agencies work together

(5) Damage Survey

CPP: Unit team leader do the damage survey and send the report to the local government . they conduct the damage survey together with the union parishad.

Upozila: Union parishad , Upozila disaster management committee and CPP

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

CPP: 12,000 (3 months)

Upozila: no

Expenditure:

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

They conduct all the zoning, evacuation route together with the UNO

- zoning for each evacuation shelter
- evacuation route
- shelter capacity
- storage of food and water, and so on

(2) Current Condition of shelters

- Number of shelters : Existing: 76 Plan: 8
- Total capacity : 45,600 Population ratio: 35.5%
- Solo use: Multi use
- Other purposes of multiuse shelter: school

- Do you think the shelters have enough height for tidal wave/ flood? Not all

(3) Operation / Management

- Owner
School management committee, union parishad
- Operation/ Management
School management committee, union parishad

- Cost burden
No budget

(4) Shelter Management Manual

- Do you have a shelter management manual?
No

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
Yes, once a month
- Do you have obligation to record activities under state of emergency and report it?
Yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Union parishad, CPP	
	Injured	Union parishad, CPP	
	Evacuees	Union parishad, CPP	
Private Sector	Building	Union parishad	
	Agriculture	Union parishad	
	Fisheries	Union parishad	
	Manufacture	Union parishad	
Public Sector	Road, Bridge	Union parishad	
	Dike	Union parishad	
	Public Utilities	Union parishad	
	Generalization, Statistics	Upozila Parishad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone				
Type	Sidr				
Start Date	15.11.2007				
End Date	15.11.2007				
Maximum Wind Velocity	240km/hour				
Highest Sea Level	25 feet				
Total Rainfall					
Dead Missing	709 63				
Injured					
Total Collapse Houses	13,464				
Half Collapse Houses	7,661				
Total Collapse Dike	No information				
Half Collapse Dike	No information				
Inundation Area	75%				
Inundation Depth	22 feet				
Agriculture Damage	6700 hector				
Fisheries Damage	252 hector				
Economic Losses	700 crore				
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- **Name of the cyclone:** Sidr
- **Record of activities including time series, if any.** no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ **Normal Times:**

CPP: They don't have any record with them. But around 10 am on 15/11/2007 they have called a urgent meeting with the all CPP leaders.

Problems: CPP don't have sufficient equipments to conduct their job without any obstacle. CPP members training are also necessary.

DMC: Disaster management committee and upozila parishad called an urgent meeting and discussed what to do.

✓ **Alert and Warning Stage:**

CPP: Inform the union leaders of CPP and order them to pass the warning information to the unit leaders

DMC: Inform union chairman and union disaster management committee about the warning over phone and order them to inform the Unit/village leaders and CPP leaders to take necessary steps.

✓ **Disaster Stage:**

CPP and DMC: At the disaster stage CPP , all local government agencies and NGO's work together

✓ **Rehabilitation Stage:** At this stage all organizations work together as well.

- How many percent of residents did evacuate to shelters?

9 %

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.
2. They stayed the houses even after the warning.

(Please describe the reason:

)

During the sird time, people didn't take the warning seriously. Some religious matter worked here as well. Women don't like to go to the cyclone shelter, as there are no separate rooms for the women.

There are also problems with the warning contents. What the contents saying is not similar with the practical situation. That's why people sometimes don't rely on the warning.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching Ongoing Passing	15.11.2007	10.30 am	Received	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Union level	-11 Level -8-10 Level -6 Level	-Notice -Recommendation -Order	Phone		cautionary verbal warning	Called meeting	
2	Approaching Passing	15.11.2007	11.30	Send	DRRO UNO (u pozila)	Union level	1-3	Notice	Phone		cautionary verbal warning	Inform Union leaders	
3	Approaching	15.11.2007	12.00 to 4.30	Received	DRRO	Union level	4-7	recommendation	phone	fax	Warning level and to prepare to move for shelter	Called emergency meeting and inform all government agencies and CPP	Not many shelters to accommodate
4	Passing	15.11.2007	12.00 to 4.30	send	UNO and UDMC	Unit level	4-7	recommendation	phone		Warning level and to prepare	Inform all ward members	Not much shelter and

5	On going	15.11.2007	6.00 pm	Received	DRRO	Union level	8-9	Order	phone	To evacuate and come to cyclone shelters	Announced over Mega Phone	No communication with Majher char
6	Passing	15.11.2007	4.00 pm to 8.00 pm	send	Ward leader	Unit level	4-10	Order	Phone and face to face	Heavy rain	Inform ed team leader s	Mobil e network gone down and every body trying to save their life

12. Others

Please describe other issues and problems or important information.

- Sharonkhona is one of the most disaster prone Upazila in Bagerhat Upazila
- More cyclone shelter is necessary
- Rescue boat is necessary as it is a coastal area
- There is no rescue vehicle in this Upazila
- There is no store room for the food storage during the disaster time
- Upazila can provide area for constructing shelter and they can manage the cyclone shelter
- Store room cum cyclone shelter will be a good example
- Upazila level computer system will be more effective to get early warning information from website
- Signal information should be more specific. At least district wise information would be better.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Asaduzzaman Milon	Chairman	Rainda Union	01948135248
Abdul Gaffar	Secretary	Rainda Union	01720361253
Habibur Rahman Fokir	Union team leader	Rainda Union	01715857029
Ibrahim Hossain Fokir	CPP, Office staff	Rainda Union	01916261345
Md. Kawsar akan	Ward member (9)	Rainda union	01717961532
Md. Ruhul Amin	Ward member	Rainda union	01713962559

(3) Responding Date and Hour

19 / 04 / 2013 at 4.00 pm

(4) Responding Place

Rainda union Parishad

(5) Interviewer

Shariful Islam



2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Rayenda Union parishad

(2) Organization Chart

- Could you provide the latest organization chart? if any.
Chairman-Secretary-9 male ward member-3 female ward member- 10 community police-peon
- Which departments/units are in charge of disaster management in the latest organization chart?

Union disaster management committee

(3)Number of Human Resources

Quorum: 39 Enrollment:

(4)Population and Number of Household

Year: 2013 Source: union parishad

Population:

Male:19,645 Female:9352 Total: 38,997

Number of Household: 7692

(5)Area

33.70 Square kilometer

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			15
Number of ward			9
Number of Polder			1

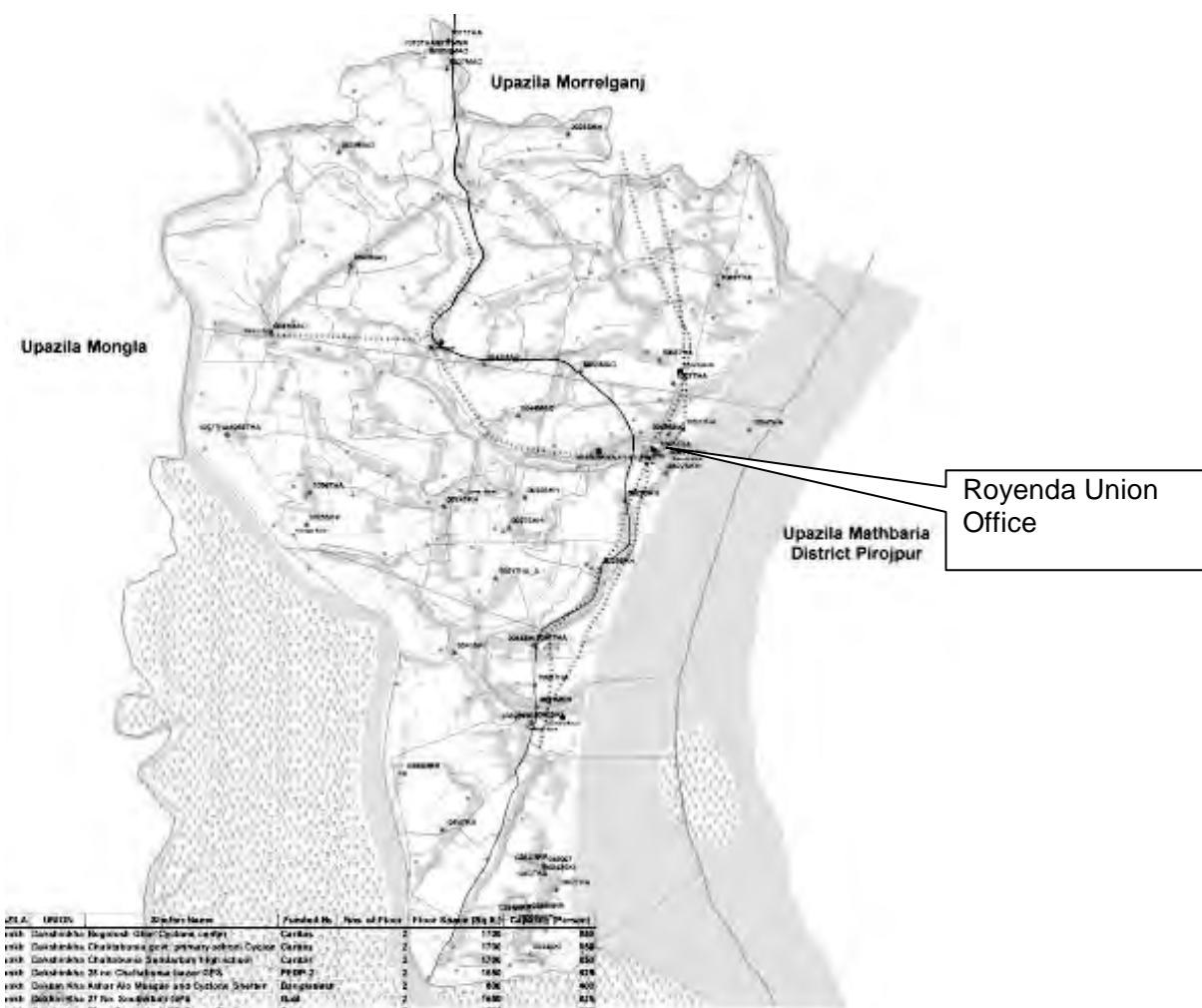
(7)Outline of Industry

- Population by industry
- Vulnerability by industry : no record

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any? no



Royenda union, Upozila Sorankhola

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No Idea
 Rainfall: Wind:
 River level: Sea level:
- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? no
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007,2009	

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Upozila Disaster management committee G: School management committee

B: Disaster Relief & Rehabilitation Office H:

C: Union Disaster management committee I:

D: Union parishad J:

E: CPP K:

F: NGO (Asroi foundation, proshar, ACDA VOCA)

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	E, F, C	C, D, F	G	C, D, F	D, E	D, E	C	D, F	E
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: 24 Part-time:

CPP: 39

(2) Office and Equipments

Sole use office room

Equipments : 3 Desks 3 File cabinets

 Copy machine 1 Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?

No

- Planning/Reviewing/Updating disaster management plan

Once a month they conduct a meeting with the disaster management committee

- Staff training

No

- Emergency drill at district/ Upazila/ Union level

No

- Equipment maintenance

They have only one hand mike, they maintain it once a month



- Inter organizational/Stakeholder meeting

Yes, Once a month

- Drawing/Reviewing/Updating hazard map

Yes

- Residents awareness campaign: NGO's do awareness campaign

- Residents evacuation drill: NGO's do evacuation drill

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	20,27,164	20,27,164	25,31,873	25,31,873	30,11,300	30,11,300
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

Union parishad normally collect local tax . They don't have any budget for the Disaster management and early warning.

Activities under State of Emergency

6.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
They follow but not always
- Please describe gaps between the SOD and actual activities? If any.
No idea

(1) Number of Human Resources

- How many staffs are mobilized? no
- Do you have any regulations/ rules for mobilization of staffs? no

(2) Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time Union parishad office
Others:
- Equipments : 2 Desks 1 File cabinets
 Copy machine 2 Computers
 UPS Internet
 TV set Radio receiver

6.5 Warning

(1) Warning

- Where do you receive the warning form? What is communication method?
PIO/ phone
- Where do you send the warning to? What is communication method?
Ward member and Union disaster management committee/ phone
- How long does it take usually since receiving till sending information?
10 minutes
- Contents of warning : Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?
no

- Do you have any issues and problems regarding communication method?
no

- Do you have communication radio in the district/ upazila/ unit?
no

- How many percent does mobile phone cover in the area?
80%

- How many percent does Mosque Microphone cover in the area?
50%

- How many percent does commercial power supply cover the area?
30%

How many percent do residents have solar power system?
7%

- How many percent do residents have mobile phones?
70%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Upozila

6.6 The Other Activities

Could you explain regarding activities below? If any.

Evacuation Guidance

CPP: During the disaster time CPP members call a meeting and try to work with other organizations like UP and Red Crescent.

UDMC: During the disaster time all local government organizations, NGO's, CPP, school management committee work together. They call an emergency meeting and plan for the evacuation. But most of the people, government agencies and CPP don't have enough training.

(1)Shelter Management:

CPP: Only the disaster time CPP coordinates with the school/ madrasha management committee to manage the cyclone shelter.

School Management committee: Normally school management committees manage the shelter. But they don't have any extra budget for that. They also don't have any equipment in the school cum cyclone shelter. Rescue and Search

(2)Sufferer Help: Disaster time upozila disaster management committee, union

disaster management committee, CPP, red-crescent, and different NGO's work together to help the sufferer.

(3)Rescue and Search: All government agencies and CPP conduct the search

(4)Damage Survey:

Ward members conduct the survey and report to Union parishad

(5)Other

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget:0

Expenditure:

7. Cyclone Shelter





(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter: yes
 - evacuation route: yes
 - shelter capacity: more shelter is necessary
 - storage of food and water, and so on

(2)Current Condition of shelters

- Number of shelters : Existing: Plan:
- Total capacity : Population ratio
- Solo use: Multi use
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood?

(3)Operation / Management

- Owner
School management committee
- Operation/ Management
School management committee
- Cost burden
No budget

(4)Shelter Management Manual

- Do you have a shelter management manual? no

8. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
Once in a year
- Do you have obligation to record activities under state of emergency and report it? yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP, CPP	
	Injured	UP, CPP	
	Evacuees	UP, CPP	
Private Sector	Building	UP, CPP	
	Agriculture	UP, CPP	
	Fisheries	UP, CPP	
	Manufacture	UP, CPP	
Public Sector	Road, Bridge	UP, CPP	
	Dike	UP, CPP	
	Public Utilities	UP, CPP	
Generalization, Statistics			

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone	Cyclone			
Type	Sidr	Aila			
Start Date	15.11.2007	25.05.2009			
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity	210 km/hour	92 km/hour			
Highest Sea Level	22 feet	5 feet			
Total Rainfall	No information	No information			
Dead Missing	86 27	No information			
Injured	275	300			
Total Collapse Houses	3750	700			
Half Collapse Houses	3025	3000			
Total Collapse Dike	11	8			
Half Collapse Dike	35	7			
Inundation Area	100%	No information			
Inundation Depth	100%	No information			
Agriculture Damage	80%	No information			
Fisheries Damage	80%	No information			
Economic Losses	No information	No information			
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- **Name of the cyclone:** Sidr
- **Record of activities including time series, if any.** no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ **Normal Times:**

CPP: They don't have any record with them. But around 10 am on 15/11/2007 they have called a urgent meeting with the all CPP leaders.

Problems: CPP don't have sufficient equipments to conduct their job without any obstacle. CPP members training are also necessary.

UDMC: Union disaster management committee and union parishad called a urgent meeting and discussed what to do. The meeting was held around 11.00 am on 15.11.2007

✓ **Alert and Warning Stage:**

CPP: from 2.00 pm on 15.11.2007 they have started to warn the community people. But from 7.00 pm, when the rain started hard, CPP members stop warn the community people as they didn't have any rain coat.

UDMC: Due to lack of equipment, UDMC can't inform the all community level people about the upcoming disaster on 15.11.2007

✓ **Disaster Stage:**

CPP and UDMC: 8.00 pm (15.11.2007) to 6 am (16.11.2007) CPP and UDMC was unable to help the affected people as there were no roads left for using.

✓ **Rehabilitation Stage:** 6.00 am (16/11/2007) to 6.00 am (17/11/2007), all government agencies, NGO,s CPP worked together.

- How many percent of residents did evacuate to shelters?

5 %

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.
2. They stayed the houses even after the warning.

(Please describe the reason:

)

During the sird time, people didn't take the warning seriously. Some religious matter worked here as well. Women don't like to go to the cyclone shelter, as there are no separate rooms for the women.

There are also problems with the warning contents. What the contents saying is not similar with the practical situation. That's why people sometimes don't rely on the warning.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	9.00 am	Received	PIO, Upozilla	Union Parishad	1-3	Notice	Phone		cautionary verbal warning		
2	Ongoing	15.11.2007	10:00 am to 5 pm	Received	PIO	Union Parishad	4-7	Order	Phone		To prepare to come to shelters	Inform d ward/Unit level, called meeting with team members	Volunteer had to walk to unit leader
3	Passing	15.11.2007	10.30 am-to 5.00 pm	Send	Union parishad	Unit/Ward level	4-7	order	Phone		To evacuate and come to cyclone centers	Announced over Mega Phone	No communication with Majher char
4	Passing	15.11.2007	10.30 am-to 6.00 pm	send	Ward leader	Community people/residents	4-10	Order	Phone and face to face		Heavy rain	Inform d team leaders to prepare for the worst case	no

11. Others

Please describe other issues and problems or important information.

- Storm warning centre can inform the directly to the union Chairman and union disaster management committee
- Well trained volunteers are necessary for the disaster time.

- Which departments/units are in charge of disaster management in the latest organization chart?

Union disaster management committee

(3)Number of Human Resources

Quorum: 39

Enrollment:

(4)Population and Number of Household

Year:

Source:

Population:

Male: 10,300/ child-8300

Female:10,500

Total: 29,100

Number of Household: 7,332

(5)Area

31 Square kilometer/

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			11
Number of Para/mouza			2
Number of Polder			1

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		80% of the agricultural land were damaged
Fisheries		100% damaged
Manufacture		
Service	2%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? no
- If yes, let us know the name of stations.
 Rainfall: _____ Wind: _____
 River level: _____ Sea level: _____
- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		

Cyclone	2007,2009, 1990,1988	In 2007, dead-675, missing-12, injured-3000

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee

G: School MANAGEMENT COMMITTEE

B: Disaster Relief & Rehabilitation Office

H:

C: Union disaster management committee

I:

D: CPP

J:

E: Union parishad

K:

F: NGO (JJS, Prashar, Muslim aid, DSK)

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,D	C,D,E	G	C,D,E	C,D,E,F	D,E	D,E,F,G	D,E,F	D,E
Gram									
Para									
Individual									
CPP									

- Contents of warning : Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?
Warning is not specific. If the warnings were specific for District or upozila wise, it would gain the people's trust on warning.
- Do you have any issues and problems regarding communication method?
During the disaster time they face problem with the mobile network
- Do you have communication radio in the district/ upazila/ unit?
DMC: no
CPP: 1
- How many percent does mobile phone cover in the area?

UDMC:50%
CPP: 60%
- How many percent does Mosque Microphone cover in the area?
UDMC: 50%
CPP: 50%
- How many percent does commercial power supply cover the area?
UDMC: 2%
Cp: 1%
- How many percent do residents have solar power system?
UDMC: 1%
CPP: 2%
- How many percent do residents have mobile phones?

UDMC: 70%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
PIO, upozila level

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

No activities in normal times. But during the disaster time CPP and Union parishad work together.

(2) Shelter Management

School management committee manages the shelters. But no budget is allocated for them.

(3) Rescue and Search

During the disaster time CPP, Union parishad, UDMC work together for rescue and search

(4) Sufferer Help:

All government agencies, NGO, CPP help the suffer during the disaster time

(5) Damage Survey

Union parishad and CPP conduct the damage survey and send the report to upozila level.

(6) Other

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

7. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter: yes
 - evacuation route: yes
 - shelter capacity: not enough
 - storage of food and water, and so on: union parishad and in school

(2) Current Condition of shelters

- Number of shelters : Existing: 23 Plan: 2
- Total capacity : 11,000 Population ratio: 38.80%
- Solo use: Multi use
- Other purposes of multiuse shelter: school, union parishad office
- Do you think the shelters have enough height for tidal wave/ flood? Not all shelters



School cum cyclone shelter



Union parishad cum cyclone shelter



(3)Operation / Management

- Owner
School management committee
- Operation/ Management
School management committee
- Cost burden
No budget for maintaining the shelters

(4)Shelter Management Manual

- Do you have a shelter management manual? no

8. Records

(1)Record of Activities

- Do you have obligation to record normal time activities and report it?

- Do you have obligation to record activities under state of emergency and report it?

(2)Damage Records

- Do you have obligation to survey disaster damage and report it?
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP AND CPP	
	Injured	UP AND CPP	
	Evacuees	UP AND CPP	
Private Sector	Building	UP AND CPP	
	Agriculture	UP AND CPP	
	Fisheries	UP AND CPP	
	Manufacture	UP AND CPP	
Public Sector	Road, Bridge	UP AND CPP	
	Dike	UP AND CPP	
	Public Utilities	UP AND CPP	
Generalization, Statistics			UP AND CPP

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	cyclone				
Type	Sidr				
Start Date	15.11.2007				
End Date	15.11.2007				
Maximum Wind Velocity	220KM/HOUR				
Highest Sea Level	No information				
Total Rainfall	No information				
Dead	675				
Missing	12				
Injured	5,000				
Total Collapse Houses	4000				
Half Collapse Houses	1200				
Total Collapse Dike	11				
Half Collapse Dike	5				
Inundation Area	100%				
Inundation Depth	15 feet				
Agriculture Damage	100% of agricultural land				
Fisheries Damage	No information				
Economic Losses	No information				
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr,2007
- Record of activities including time series, if any.no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

There is no budget for the normal time activities

✓ Alert and Warning Stage:

CPP and Union parishad don't have enough equipments to warn the whole community

✓ Disaster Stage

Main road was unusable during the sidr time and mobile network get disconnected.

✓ Rehabilitation Stage

All organizations work together at this stage.

● How many percent of residents did evacuate to shelters?

10%

● What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason: Warning didn't reach to the all residents. It is also true that people didn't want to move to shelter. Moreover In the year of 2007, there were not much cyclone shelter.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
1	Approaching	15.11.2007	10.30 am	received	Upozila	UP	1-3	Notice	Phone	-Fixed line phone -Cell-phone -Radio -Loud speaker -Face to Face	Verbal cautionary	Meeting	
2	Approaching	15.11.2007	2.30pm	received	Upozila	UP	4	Recommendation	Phone		Prepare to move for cyclone shelter	Warn the chairman	
3	Ongoing	15.11.2007	2.30-5.30 pm	received	Upozila	UP	4-9	Order	Phone		Safeties of the community people And all government and private organizations have to work together	Order the upozila, union and unit leaders	Not much cyclone shelter to accommodate the community
4	Passing	15.11.2007	11.00 am	send	UP	member	1-3	Notice	Phone		Verbal cautionary		
5	Passing	15.11.2007	2.40 pm	send	UP	member	4	Recommendation	Phone		Prepare to move for cyclone shelter	Inform all unit and ward leaders to take necessary steps to reduce the damage	Not enough equipments to cover the area

6	Passing	15.11.2007	2.30-6.30 pm	send	UP	member	4-10	Order	phone	Safeties of the community people And all government and private organizations have to work together	All private and govt organizations start working together	Ratio of cyclone shelter is really low
---	---------	------------	--------------	------	----	--------	------	-------	-------	--	---	--

11. Others

Please describe other issues and problems or important information.

- Reconstruction of cyclone shelter
- Equipments are necessary to warn people
- Rescue purpose, vehicle is necessary.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Mezzbha Uddin	DC	DC office	01713401010
Md. Zohirul Islam	Wireless operator	DRRO office	01915319036
Md. Almgir	DD	CPP office	01728837869
Md. Bashiruddin	Regional Director	Bangladesh Betar Khulna	01914750636
Md. Amirul Azad	Officer in charge	Regional Weather Station	01717272431

(1) Responding Date and Hour

13 / 05 / 2013

(2) Responding Place: DC office, CPP office, Khulna

(3) Interviewer: Mustafizur Rahman, Sukhen & Afrina



Interview with DC



Interview with CPP

2. General Information of Organization (District/ Upazila/ Union)

Name of Organization: District administration

(1) Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart but inform the organ gram verbally

- Which departments/units are in charge of disaster management in the latest organization chart?

DC is the head of district DMC and District Relief & Rehabilitation Office (DRRO) is the member secretary responsible for disaster management.

(1) Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of Khulna District

The same map is available in website of GoB

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Khulna has a meteorological office. It is one of 37 centre of Bangladesh with well equipment can measure temperature, dew point, pressure, rain, evaporation, sunshine, relative humidity, wind speed and direction.



Regional Meteorological station Khulna

It sends data every three hour of the day. They are not authorized to analysis or predict on weather. There is no coordination among the agencies like Radio station, meteorological office or water board etc. But DC can request to broadcast bulletin on disaster like cyclone.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? yes
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		Any 7 or 8 feet high tidal surge can submerge the lower /southern part of Khulna district
Flash flood		
Inside water inundation	Twice per month	The southern part of Khulna district is very close to sea level water. During high tide (twice per month), the inundated

		outside the polder. Aila broke many point of polder of Dacope and Koyra causes severe water logging for three yeas
Cyclone		Most devastating cyclone attacked in 1970 and thousands of people died. At that time no cyclone centre or polder was available. People have no place to evacuate. People died like other animal.
River bank erosion	Every year	River bank erosion is common phenomenon of Khulna district particularly southern part or upazila.

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: District administration

B: Disaster Relief & Rehabilitation Office H: LGED

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District	C,A,G	C,G,F	D, H	C,A,F	E,F	F	B,F	E	E
Upazila									
Union									
Gram									
Para									
Individual									
CPP									

it let alone the maintenance issue. DRRO office has no budget to maintenances of Equipment.

- Inter organizational/Stakeholder meeting: only at disaster time.
- Drawing/Reviewing/Updating hazard map:
NGO developed hazard map are found in different upazilas.
- Residents awareness campaign:
Some national and international NGOs are implementing awareness program. It will better if there was coordination among the agencies.
- Residents evacuation drill:
NGOs arrange occasionally.

6.3 Financial Status:

NO budget except disaster/emergency time. DRRO office reserves 50 metric ton Rice and 200 thousand taka per year

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? YES
- Please describe gaps between the SOD and actual activities? If any.

(1)Number of Human Resources

- How many staffs are mobilized?

District level administration can mobilize hundreds of civil government employee. As divisional head quarter Khulna does face human resource to mobilize. Bangladesh Navy and Coaster guard has their base here and lot of international & national NGOs are working here.

Each union parisad can mobilize more than fifty people. Red Crescent mobilizes their own resource. In few upazilla, CPP come forward as well.

- Do you have any regulations/ rules for mobilization of staffs? YES

(2)Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?

Same as normal time

DC/ ~~UNO~~/PIO office

Others: DRR office is used as emergency head quarter/control room.

During Mahsen, when it was signal number 4 the Khulna DC office declare DRR office as control room. Initially it was open at 8 am and continue till 8 pm. Later it was round the clock.

- Equipments :

Desks	File cabinets
Copy machine	Computers
UPS	Internet
TV set	Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? :

Mr. DC of Khulna receives their department as well as meteorological department. Disaster Management Bureau is in charge of distributing the warning to District level DRR office.

Khulna division has no CPP staff at district level at the moment but they are working in Koyra and Dacope upazila. CPP receive from control room or concern CPP unit/team leader. During Mahsen union team leader

receive phone call from upazila team leader.

- What is communication means? : Cell/land phone, e-mail,

- Where do you send the warning to?
The DMC of district level and DRR office send it to Upazila level PIO, DMC then union level UP member, chairman & DMC.
CPP send it bottom level i.e. from district to upazila to Union level CPP member & volunteer.

- What is communication means? Cell phone. Formal letter are send latter

- How long does it take the time usually since receiving till sending?
20 minutes

- Contents of warning :
11 levels warning 6 levels warning Others:
At first people are informed the origin and location of the cyclone velocity of wind and possible height of tidal surge, then the possibility to attack and timing etc. people are asked to keep prepared.

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.
Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO

- Do you have any issues and problems regarding communication method?
Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing due to lack of equipment. CPP needs vehicle.
UP and CPP also use mosque mike during emergency but many Hindu dominated areas has no mike.
In many occasion powers supply/electricity is not available during emergency.

- Do you have communication radio in the district/ upazila/ unit?

- How many percent does mobile phone cover in the area? 95%

- How many percent does Mosque Microphone cover in the area? 85%

- How many percent does commercial/govt. power supply cover the area?
25%
- How many percent do residents have solar power system? 20%
- How many percent do information infrastructures below cover the area?
TV Network: 100% FM Radio: 80% AM Radio: 100%
Mobile Phone: 98%
- How many percent do residents have mobile phones? 95%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
DC as a head of DMC at district level issues warning and evacuation order.
Other downward agencies are instructed to follow the order.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance

During the disaster local government bodies, CPP, DMC work together. They call an emergency meeting and plan for the evacuation. In many occasions they use force (police) to evacuate people.

(2) Shelter Management:

Normally SMC (school management committees) manage the shelter. Shelter management guidelines have developed and to implement it necessary action is under process.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly District administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Navy and Coast guard has strong base in Khulna who participated in previous rescue work in this area.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people come forward to help them. CPP, red-crescent, and different NGOs play important roles and work together to help the sufferer.

5) Damage Survey:

The survey conducted by UP. UP collect information and scrutinize by government official.

Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

DRRO office reserves 50 metric ton Rice and 200 thousand (200,000) taka for emergency per year. District administration can allocate budget considering disaster situation. Upaazila parisad have no budget but UNO manage if upper management instruct o allocate from other source.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
During the disaster CPP, UP ask people to take shelter at their nearest one. Unfortunately this is merely a false request. Where do people go? The scarcity of cyclone shelter make resident unprotected.
- zoning for each evacuation shelter NO.
Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed to construct.
- evacuation route: Access road are not in good condition
- shelter capacity: 300-350 persons per cyclone shelter
- storage of food and water, and so on:

Generally there is no food storage for emergency even no safe drinking water. Government stores rice but not as a dry food. But administrations ask to businessman not to sell dry food for the time being and buy or collect from them if it is required.

After Mahasen dry food are send for people who took shelter in different places. People are asking to store dry food personally. During cyclone Mahasen UNO/UP did not store dry food.

(2) Current Condition of shelters

- Number of shelters : 157 Existing: 80% good condition Plan:
- Total capacity : 740000 Population ratio 157 for 23,18,527
- Solo use: few Multi use: Most
- Other purposes of multiuse shelter: shelter cum school or union parishad.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3) Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Mostly SMC
School management committee generally and school head teacher particularly responsible to maintain the SC. During the disaster time CPP and Union Parishad also manage the shelter.
- Cost burden : LGED/GoB & NGO sponsored

(4) Shelter Management Manual

- Do you have a shelter management manual?
It is hears Bangladesh government has developed a manual but it does not reached here.

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? YES
- Do you have obligation to record activities under state of emergency and report it? YES

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	UNO, UP, CPP, Police	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Items	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	220	190			
Highest Sea Level	14	15			
Total Rainfall	More than Aila				
Dead	18	57			
Missing					
Injured	173	543			
Total Collapse Houses	15421	68621			
Half Collapse Houses	67980	44313			
Total Collapse Dike		597 km			
Half Collapse Dike					
Inundation Area	1915.55				
Inundation Depth					
Agriculture Damage		3146			
Fisheries Damage					
Livestock	507	2080			
Poultry		33296			
No. of Cyclone Shelter					
Affected School, College Mosque/ Modir		582			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. YES
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities are ignored due to budget crisis (CPP, PIO).

Training and awareness program are implemented by NGOs

✓ Alert and Warning Stage:

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

CPP cannot go in every corner of the area due bad road condition

Mosque Mike cannot cover all the area

✓ Disaster Stage

This area exist below the sea level water

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

✓ Rehabilitation Stage

Quick rehabilitation is not possible

CPP has no scope to rehabilitate activities

Fund is major obstacle

● How many percent of residents did evacuate to shelters?

No problem for urban area but rural people cannot be evacuated more than 5%

- What were the causes of deaths? Please select below.
 1. Warning didn't deliver to the residents well ahead of time
 2. They stayed the houses even after the warning.

(Please describe the reason:

Water came into the resident area by over flowing embankment during AILA. Polder could not protect. Polder becomes weak due to shrimp cultivation. Shrimp cultivator insert water by cutting or holing polder. Water came suddenly and people cannot go to secured place. Their live is matter of washed away.

It is our observation that people receive warning but the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✪ CDMP have planned to implement normal time activities like training for different stakeholder, campaign, awareness program etc. Now some international NGOs arrange mock drill, awareness program and training for community people. It is true that Normal time activities get very less priority. Awareness is most important to reduce the damage.
- ✪ One Germany made siren was installed in Khulna office recently. DRR office was not informed on Siren and even nobody of DRR office can operate it.
- ✪ Disaster management plan has only written view but no practical view. Only some simple programs like rally are held. There is no budget.
- ✪ At union level CPP did not get office room in Upazila Parisad. It is suppose to get one room from UP office.
- ✪ The equipments that are given to the CPP volunteer are new and made by China and quality is very low. They are demanding best quality equipments (CPP prefer Japan made) that will provided to them ASSP.
- ✪ Coordination among NGOs and government is important. We (DC or district administration) attend NGO's launching program. It seems our duty is finished with photo session event.
- ✪ The Radio station informs that the weather news broadcasting is mandatory. When signal number is 4 or more then it broadcasts frequently (hourly, per fifteen minute etc). They cannot focus fisherman due to frequency hazard, legal hazard regarding frequency with neighboring courtly (India)
- ✪ We visited Khulna meteorological station. It is one of 37 centre of Bangladesh with well equipment can measure temperature, dew point, pressure, rain, evaporation, sunshine, relative humidity, wind speed and direction. It sends data every three hour of the day. They are not authorized to analysis or predict on weather. There is no coordination among the agencies like Radio station, meta office or water board etc. But DC can request to broadcast bulletin on disaster like cyclone
- ✪ In previous year's meetings was held frequently but in present the number of meetings are reducing. Every meeting has a cost. Who will pay for that? Now DRRO have to pay for meeting from his own pocket.



Visit the meteorological station



Visit the radio station of Khulna District



Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Shelim Khan	PIO	Dacop Upazila Parisad	01812138142
Debashis Dhali	Upazila Team Leader	CPP	01942422825
Dev Prosad Roy	Volunteer	CPP	01719567099
Aunupom Dotto	Volunteer	CPP	01913053963
Somrat Sen	Volunteer	CPP	01930167748

(1) Responding Date and Hour

21 / 05 / 2013 (10:25 am – 1:00pm)

(2) Responding Place: UNO office, Dacope

(3) Interviewer: Mustafizur Rahman
Sukhen & Afrin



Meeting with Upazila PIO & CPP

2. General Information of Organization

(District/ Upazila/ Union)

(1) Name of Organization; upazila parisad, Dacope

(2) Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

Upazila Disaster Management Committee, PIO and CPP office are responsible for disaster management at upazila level. CPP is a new body in the Khulna region started worked in 2011.

Upazilla chairman works as adviser now. During disaster, coordination among different unit headed by UNO takes place.

(3)Number of Human Resources: UP DMC -35, PIO-2, CPP- 1170 (unit # 78)

Quorum: Two third of the member Enrollment:

(4)Population and Number of Household

Year: 2011 Source: upazila parisad Statistics, Dacope

Population:

Male: 76,291 Female: 76,025 Total: 152,316

Number of Household: 36,597

(In 2001 Dacope has more 5000 people. We do not why population of Dacope is reducing whereas national figure is increasing)

(5)Area

991.56 square km (including Sunderban forest 495 Square kilometer)

(6)Number of Subordinate Government Agencies:

Let us know the number of subordinate government agencies.

One unit from every ministry should have existence at upazila level. Upazila parisad/ UNO are in charge of coordination among the agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		10	
Number of Gram		97	
Number of Para			
Number of Polder			

(7)Outline of Industry

Agriculture is the main industry particularly shrimp cultivation. The area looks like a desert at summer and wetland at rainy season.

Aila left behind many devastating impact. The water logging stayed here for

more than two years. The saline water destroyed lives and livelihood of the areas. The main demand is to go back to before aila situation of environment. Shrimp cultivation changes the economic classes. People can be classified into two classes very rich and poor.

Some people catch fish in river, canal of sunderban forest.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	60%	Only rice is produced in one season. There is no KILLA for livestock in this upazila
Fisheries	25%	Fish culture is major victim of cyclone. Any minor tidal/ water cover flow can damage majority of fish pond
Business/ Manufacture	9 %	
Service	5 %	
Others	1%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Frequently	People collect saline water from high tide water for their shrimp cultivation.
Cyclone	Irregularly	Cyclone cannot easily attack easily here. The mangrove forests protect this area from Cyclone.
River bank erosion	Every year	The south coast of the Dacope has been cracking/erosion every year. Hundreds of acre land of Dacope upazilla town went under river.
Impact of salinity		

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Union									
Gram									
Para									
Individual									
CPP									

NGO= Caritas, Ulashi S. Sangha, JJS, Rupantor, DSK, WFP, Sushilon, World Vision, CCDB

6. Normal Time Activities

No budget is allocated for normal activities. Some international NGOs are working here and arrange mock drill, awareness program and training for community people

6.1 Structural Framework

(1) Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

(2) Office and Equipments

Sole use office room:

CPP did not get office room in Upazila Parisad

Equipments :	Desks	File cabinets
	Copy machine	Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? Yes
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:

CPP got training on disaster issue (basic, first aid, rescue etc) after forming the unit volunteers.

- Emergency drill at district/ Upazila/ Union level:
Some NGOs are working here who e arrange occasionally emergency drill. CPP are involved with event.
- Equipment maintenance :
The main problem of equipment maintenance is there is no accountability if equipment were damaged or out of order. All the equipments are given just couple of years ago. CPP do not face maintenance issue so far. They heard that if maintenance is required the concern equipment is surrendered to upper CPP or zonal office.

- Inter organizational/Stakeholder meeting: NO except with CPP

- Drawing/Reviewing/Updating hazard map:
NGO developed hazard map is found in the roadside



Hazard Map

- Residents awareness campaign:
A rally is held on the international Disaster day every year. Some international NGO has been implanting program on residents' awareness after cyclone AILA.

- Residents evacuation drill:
CPP and some international NGOs organized drill on resident evacuation.

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

They (CPP or DMC) have no budget for normal time activities

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? Yes

- Please describe gaps between the SOD and actual activities? If any.

During emergency they follow the instruction given by DC or department of disaster. They try to follow as much as possible considering local situation. May

be there is gap but UNO or upazila administration works as per their ability and resources.

(1) Number of Human Resources

- How many staffs are mobilized?
Upazilla administration can mobilize enough staff from different agencies as well as NGOs.
- Do you have any regulations/ rules for mobilization of staffs?

(2) Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
- Others:

Control Room for MAHASSEN opened at 14 May 2013 at PIO Office. One Tag office was deployed for each union and the control room was open for round the clock, duty roster of staff were set and concern officers stayed at office by turn. Staff leave from the station were cancelled. Medical teams were formed for every union

- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receive

7.2 Warning

(1) Warning

- Where do you receive the warning form?

UNO/PIO receives from District office (DC, DRRO) and from meteorological office of Dhaka
CPP receive from control room Dhaka, also from Mr. Abdur Rashid (works as acting deputy director and responsible for Dacope upazila).

- What is communication means? :

Cell/land phone, email and fax

CPP used Megaphone to announce cyclone MAHASEN by walking. World Vision (NGO) used van for warning people.

- Where do you send the warning to? :

The DMC, UNO, PIO of upazila level send it to union level UP member & DMC. CPP send it bottom level i.e. from Upazila to Union level CPP member & volunteer.

- What is communication means?

Cell phone, direct communication

- How long does it take the time usually since receiving till sending?

40 minutes

- Contents of warning :

11 levels warning 6 levels warning Others:

Few words are given from cyclone MAHASEN message when the signal was 3; Dear community people, a cyclone was from in the deep Indian Ocean, it is moving northward over the same area. All fishing boat, trawler and marine vessel over North Bay and deep sea have been advised to come close to the coast. All of you are asked to keep prepared. It may cross over this area. We will update you time to time. They also said that a cyclone is coming like Aila so get prepared

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing lack of equipment.

- Do you have communication radio in the district/ upazila/ unit? No

- How many percent does mobile phone cover in the area? 98%
- How many percent does Mosque Microphone cover in the area? 70%
- How many percent does commercial/govt. power supply cover the area? 15%
- How many percent do residents have solar power system? 25%

- How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 50% AM Radio: 100%

Mobile Phone: 98%

- How many percent do residents have mobile phones? 80%



CPP Instruments

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance: No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly upazila administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard has deployed here, they might use to search and rescue activities. Children, elderly people and women get priority to rescue activities.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5) Damage Survey:

The survey conducted by UP. UP collect information and scrutinize by government official.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parishad or Upazila parishad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. It is not possible to evacuate most people to cyclone shelter. The scarcity of cyclone shelter make resident unprotected.

- zoning for each evacuation shelter: NO

Govt. wants to build cyclone shelter cum school. The number of cyclone centre is very minimum here compare to other coastal area. After cyclone AILA, some internal NGOs have come forward but they are not constructing the cyclone centre.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not in good condition
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

People are asking to store dry food personally. During cyclone Mahasen UNO/PIO stored dry food.

(2)Current Condition of shelters

- Number of shelters : 58 Existing: (most of them are good condition)
Plan:
- Total capacity : 29,000 Population ratio 58 for 150,000 people
- Solo use: Multi use: 80%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
No Idea
- Do you have obligation to record activities under state of emergency and report it? Yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead	6				
Missing					
Injured	24				
Total Collapse Houses	2259				
Half Collapse Houses	18,210				
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage	229.55 skm				
Fisheries Damage					
Livestock	21				
Poultry					
Prawn					
Affected Mosque/Mondir					
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

- ✓ Alert and Warning Stage:

CPP can not go in every corner of the area due bad road condition

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

- ✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Blackout of electricity and cell phone network failure

- ✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 8%
- What were the causes of deaths? Please select below.

1. Warning did not deliver to the resident
2. They stayed the houses even after the warning

(Please describe the reason:

During AILA water came into the resident by over flowing. Polder becomes weak due to shrimp cultivation. Farmer inserts water by cutting or holing polder. Water came suddenly breaking the embankment/polder and people could not go secured place. Their live is matter of washed away.

It is our observation that people receive warning but they did not take shelter earlier. On the other hand the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching												
2	ongoing												
3	ongoing												
4	ongoing												
5	Passing												
6	Passing												
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✧ Warning has improved. People did not get early warning at Ailabut got in MAHASSEN
- ✧ People were responsive during MAHASSEN. Many people came to town from other side of river (even from Rampal) to take shelter
- ✧ The tidal water of cyclone Aila flowed over polder and broke many weaker points created water logging for more than two years. The saline water destroyed lives and livelihood of the areas. The main demand is to go back to before-Aila situation of environment. Shrimp cultivation changed the economic classes. People can be classified into two classes very rich and poor
- ✧ Bangladesh Army repaired the polder after Aila
- ✧ People believe that CPP will extend their hand at cyclone now. CPP worked till mid-night this time. Female CPP member were also active.
- ✧ No Mosque (#36) mike was used at Dacope particularly. It was missed opportunity, may be due to Hindu dominated area in terms of population CPP did not utilize the mosque mike
- ✧ CPP think that risk can be reduced at least 70 % by developing awareness. Warning by local people or institution is more effective than warning broadcasting TV, radio from far away.
- ✧ PIO get message on 11 May 2013. A tornado attacked just two days before the MAHASSEN approaching. During MAHASSEN, PIO try to communicated with colleague in different region to understand better way.
- ✧ Control opened at 14 May 2013 at PIO Office. One Tag office was deployed for each union and the control room was open for round the clock, duty roster of staff was set and stayed at office by turn. Staff leave from the station were cancelled. Medical teams were formed for every union.
- ✧ CPP, DMC and SMC were asked to make cyclone centre usable for the resident at 5 May, 2013. Same directive was for makeshift cyclone centre.
- ✧ Blackout of electricity and cell phone network failure.
- ✧ World vision (INGO) did a fantastic job during MAHASSEN. It had warning equipment and skilled staffs to deal cyclone or disaster.

- ✦ The main problem of equipment maintenance is there is no accountability for damage of equipment or missing.
- ✦ No coordination among the NGO and GO rehabilitation work. The way NGO work here and the fund inject was huge but no visible output is found.
- ✦ Though CPP is new body here, it has gotten experience to deal cyclone management first time in Dacope. They warn people by megaphone, and hoist signal flag. CPP started activities from 13 May 2013
- ✦ CPP demand for cross country or region visit to gain experience.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Umashongkor Roy	Chairman	Union Parisad	01716537486
Md. Toybur Rahman	UDMC member	Union Parisad	01771762144
Prosenjit Roy	Union team leader	CPP	01718656619
Md. Anish Shana	Unit team leader	CPP	01918059942
Spana Roy	Unit team leader	CPP	01935646580

(1) Responding Date and Hour

23 / 05 / 2013 (10:20 am – 1:00 pm)

(2) Responding Place:

Union parisad office, Kamarkhola



(3) Interviewer: Mustafizur Rahman
Sukhen & Afrin

Meeting with Union
parisad Chairman and
CPP

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization: CPP, DMC

(2) Organization Chart

Could you provide the latest organization chart? if any.

- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management.

It is heard that the DMC and UP were not active during MAHASEN. DMC does not meet together, its activities are dysfunctional. Even they did not

call meeting during MAHASSEN. There is communication/relation between UP-DMC and CPP. Some NGOs worked with CPP but DMC was absent in this cyclone (MAHASSEN). UP chairman personally was active.

(3)Number of Human Resources: UP DMC -37, CPP- 135 (15 unit)

Quorum: one third of the member Enrollment:

(4)Population and Number of Household

Year: 2001 Source: Union parisad office Statistics, Kamarkhola

Population:

Male: 7612 Female: 6795 Total: 14,407 (now 16000 guess)

Number of Household: 3670

(5)Area: 29.20 square km

(6)Number of Subordinate Government Agencies: 12

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			14
Number of Para/Mouza			1
Number of Polder			1(32)

(7)Outline of Industry

Agriculture is the main industry particularly shrimp cultivation. Couple of years ago cent percent land was used in shrimp cultivation. Most of the farmers come from outside and taking land from local people by lease in.

Now people realize that shrimp cultivation harm the environment enormously. Land lost its productivity. Total land becomes barren for agriculture. Shrimp is capital inceptive venture that caused unemployment.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	40%	
Fisheries	40%	Fish culture is major victim of cyclone. Any minor tidal/ water cover flow can damage majority of fish pond

Business/ Manufacture	9 %	
Service	5 %	
Others	6%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		The polder is weak and vulnerable to tidal surge
Flash flood	No	
Inside water inundation	Frequently	People collect saline water from high tide water for their shrimp cultivation.
Cyclone	Irregularly	Cyclone cannot easily attack easily here. The mangrove forests protect this are from Cyclone.
River bank erosion	Every year	The ward no 5 and 6 of this union (very close to Mangrove forest now world heritage) has been cracking/erosion every year. More than 1 km land goes under river and an area is reducing.



Vulnerable resident



Salinity and brick structure

6. Normal Time Activities

No budget is allocated for normal activities. Some international NGOs are working here and arrange mock drill, awareness program and training for community people.

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP-137 Part-time:

(2) Office and Equipments

Sole use office room: CPP have no office. Sometime they meet in hall room of union parisad.

Equipments :	Desks	File cabinets
	Copy machine	Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

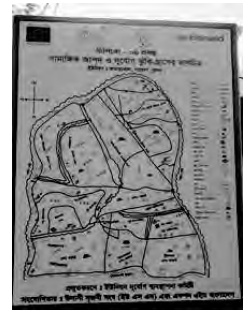
- Do you have disaster management plan?
An NGO (RUPANTOR) start work with union parisad to prepare disaster management plan
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:
CPP got training on disaster issue (basic, first aid, rescue etc) after forming the CPP unit. UP member require training
- Emergency drill at district/ Upazila/ Union level:
NGOs arrange occasionally.
- Equipment maintenance :
All the equipments are given just couple of years ago. CPP do not face maintenance issue so far though some of the equipments are

not functioning. They heard that if maintenance is required the concern equipment is surrendered to upper CPP or zonal office.

- Inter organizational/Stakeholder meeting: NO

- Drawing/Reviewing/Updating hazard map: Yes

- Residents awareness campaign:
The international NGO has been implanting program on residents' awareness after cyclone AILA.



Hazard map

- Residents evacuation drill:
CPP said that some international NGOs organized drill on resident evacuation.

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

They (CPP or DMC) have no budget for normal time activities, they depend on NGOs

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? NO
- Please describe gaps between the SOD and actual activities? If any.

- What is communication means? : Cell phone

One German made siren is set in union parisad building

- Where do you send the warning to? :

Union level CPP member & volunteer send the warning to community people using mega-phone. The role UP and DMC is not clear, the study team heard from local people that UP did not announce anything for the resident on MAHASSEN.

- What is communication means?

Signal Flag hoisting, Cell phone, mega-phone, and Mosque mike (few)

- How long does it take the time usually since receiving till sending?

40 minutes

- Contents of warning :

11 levels warning 6 levels warning Others:

Few words are given from cyclone MAHASSEN message when the signal was 3; Dear community people, a cyclone was from in the deep Indian Ocean, it is moving northward over the same area. All fishing boat, trawler and marine vessel over North Bay and deep sea have been advised to come close to the coast. All of you are asked to keep prepared. It may cross over this area. We will update you time to time. Another call is a cyclone is coming like Aila so get prepared

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing due to lack of equipment. CPP needs vehicle, VHF wireless.

It is observed that cell phone network does not work smoothly sometime at the time of disaster

- Do you have communication radio in the district/ upazila/ unit?
- How many percent does mobile phone cover in the area? 98%
- How many percent does Mosque (#13) Microphone cover in the area? 55%
- How many percent does commercial/govt. power supply cover the area? 2%
- How many percent do residents have solar power system? 21%

- How many percent do information infrastructures below cover the area?
 TV Network: 100% FM Radio: 50% AM Radio: 100%
 Mobile Phone: 98%

- How many percent do residents have mobile phones? 95%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
 Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.



The condition of Road accessibility

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly upazila administration is responsible for rescue. CPP are motivated

but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard is deployed here, they might be used to search and rescue activities. Bangladesh Navy has strong base in Khulna who participated in previous rescue work in this areas.

Children, elderly people and women get priority to rescue activities.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGOs play important role and work together to help the sufferer. Fortunately, many international NGOs came here after cyclone Aila.

(5) Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and scrutinize by government official.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parishad or Upazila parishad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

After Mahasen dry food are send for people who took shelter in different places.

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. Unfortunately this is merely a false request. Where do people go? The scarcity of cyclone shelter make resident unprotected.

- zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The number of cyclone centre is very minimum here (only 5) compare to other coastal area. After cyclone AILA, some internal NGOs have come forward but they did not construct the cyclone centre.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not in good condition
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

People are asking to store dry food personally. During cyclone Mahasen UP did not store dry food but ask businessman not to sale. Safe drinking water is scarcer here.

(2)Current Condition of shelters

- Number of shelters : 5 Existing: (most of them are good condition)
Plan: 2
- Total capacity : 1,450 Population ratio 5 for 16000 people
- Solo use: Multi use: 100%
- Other purposes of multiuse shelter: shelter cum school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
No Idea
- Do you have obligation to record activities under state of emergency and report it?
No Idea

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
Poultry					
Prawn					
Affected Mosque/Mondir					
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr, Aila or MAHASSEN
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

✓ Alert and Warning Stage:

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

CPP cannot go in every corner of the area due bad road condition

✓ Disaster Stage

This area exist below the sea level water

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Cell phone network does not work smoothly sometime not at all at the time of disaster

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 6%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

During AILA water came into the resident by over flowing embankment. Polder cannot protect. Polder becomes weak due shrimp cultivation. Shrimp cultivator insert water by cutting or holing polder. Water came suddenly and people cannot go secured place. Their live is matter of washed away.

It is our observation that people receive warning but the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching												
2	ongoing												
3	ongoing												
4	ongoing												
5	Passing												
6	Passing												
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✧ The DMC and UP were not active during MAHASSEN. DMC does not meet together, its activities are dysfunctional. Even they did not call meeting during MAHASSEN. There is communication/relation gap between UP-DMC and CPP. Some NGOs worked with CPP but DMC was absent in this cyclone (MAHASSEN). It is appreciated if more NGO are come forward at emergency time.
- ✧ CPP warn people by megaphone, and hoist signal flag during MAHASSEN. The means of communication is cell phone only. Sick or old people cannot be brought to cyclone shelter due to lack of stretcher.
- ✧ CPP are happy to get chance to warn people and help to preparedness activities. They are happy as people recognize them and acknowledge their role/contribution.
- ✧ Child, pregnant women and disable people asked particularly to go cyclone centre. Those who are living outside of the polder also asked to take shelter in nearest cyclone centre.
- ✧ CPP have no office. Sometime they meet in hall room of union parisad.
- ✧ Cell phone network does not work smoothly sometime not at all at the time of disaster.
- ✧ The battery of megaphone does lasting long. The megaphones have low capacity.
- ✧ Hearing the warning from CPP, one old man asked help to go cyclone centre with CPP leaving their other family member in house.
- ✧ Public awareness has increased. CPP noticed that dry foods were brought by resident and running out within days and also rope were running out in the localmarket. Rope is used to tie/fix roof with column etc.
- ✧ Repair and new polder/embankment construction is first priority
- ✧ The polder washed away in many places caused the tidal water came and out regularly and it remain until the repair the polder. The main demand is to go back to before aila situation of environment.
- ✧ After Aila, severe water logging created and stayed three years. Many people had to move other place and they could not back to their residence yet.
- ✧ One store room for dry food should be constructed in every union.
- ✧ Most of the houses are built with low cost material particularly by wood and tin and floor is *katcha* (earthen), any wind of velocity 50 km per hour can bulldoze the houses.
- ✧ This area exist below the sea level water

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
G.M. Ashraf Hossain	Chairman	Union Parisad	01711470267
Md. Nur Islam Gazi	Secretary	Union Parisad	01720928601
Md. Jahid Hassan	Union team leader	CPP	01734712346
Lipika sardar	Volunteer	Union Parisad	01736396224
Debashis Dhali	CPP Upazila team leader	CPP	01942422825

(1) Responding Date and Hour

20 / 05 / 2013 (10:20 am – 1:00 pm)

(2) Responding Place:

Union parisad office, Sutarkhali, Dacop

(3) Interviewer: Sukhen & Afrin



Meeting with Union
parisad Chairman and
CPP

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization: CPP, DMC

(2) Organization Chart

Could you provide the latest organization chart? if any.

- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management.

(3) Number of Human Resources: UP DMC -36, CPP- 135 (15 unit)

Quorum: one third of the member Enrollment:

(4) Population and Number of Household

Year: 2001 Source: Union parisad office Statistics, Sutarkhali

Population:

Male: 18716 Female: 18,895 Total: 37,611

Number of Household: 7,522

(5) Area: 50 square km

(6) Number of Subordinate Government Agencies: 12

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			16
Number of Para/Mouza			4
Number of Polder			1 (polder # 32)

(7) Outline of Industry

Fisheries is the main industry particularly shrimp cultivation. Couple of years ago cent percent land was used in shrimp cultivation. Most of the farmers come from outside and taking land from local people by lease in.

Now people realize that shrimp cultivation harm the environment enormously. Land lost its productivity. Total land becomes barren for agriculture. Shrimp is capital inceptive venture that caused unemployment.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	40%	After Aila, some area are become high and some are low that's why water can't drain out from the low land. On the other hand irrigation is impossible in high land. This situation is now the great barrier in agriculture.
Fisheries	40%	Fish culture is major victim of cyclone. Any minor tidal/ water over flow can damage majority of fish pond
Business/Manufacture	9 %	
Service	5 %	
Others	6%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		The polder is weak and vulnerable to tidal surge
Flash flood	No	
Inside water inundation	Frequently	People collect saline water from high tide water for their shrimp cultivation.
Cyclone	Irregularly	This union is very much prone to any kind of cyclone.
River bank erosion	This is compulsory	Round the year erosion is occurred that's why saline water inundation is become common phenomena.



The polder condition and the vulnerable residents

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Caritas, Proddipon, Heed Bangladesh, Aado, World Vision, Ulashi S. Sangha, JJS, Rupantor, DSK, WFP, Sushilon, etc. CCDB

6. Normal Time Activities

No budget is allocated for normal activities. Some international NGOs are working here and arrange mock drill, awareness program and training for community people.

6.1 Structural Framework

(1) Number of Human Resources: DMC- 36 & CPP-120

Full-time: DMC- 36 & CPP-120

Part-time:

(2) Office and Equipments

Sole use office room: CPP have no office. Sometime they meet in hall room of union parisad.

Equipments : Desks: 1 File cabinets
 Copy machine: 1 Computers: 2

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?

Union parisad was prepared disaster management plan with CPP.

- Planning/Reviewing/Updating disaster management plan : NO

- Staff training:

CPP got training on disaster issue (basic, first aid, rescue etc) after forming the CPP unit. UP member require training

- Emergency drill at district/ Upazila/ Union level:

NGOs arrange occasionally.

- Equipment maintenance :

All the equipments are given just couple of years ago. CPP do not face maintenance issue so far though some of the equipments are not functioning. They heard that if maintenance is required the concern equipment is surrendered to upper CPP or zonal office.

- Inter organizational/Stakeholder meeting: NO

- Drawing/Reviewing/Updating hazard map: Yes

- Residents awareness campaign:
The international NGO has been implanting program on residents' awareness after cyclone AILA.



Hazard map

- Residents evacuation drill:
CPP said that some international NGOs organized drill on resident evacuation.

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

They (CPP or DMC) have no budget for normal time activities, they depend on NGOs

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? Yes

- Please describe gaps between the SOD and actual activities? If any.

During emergency they follow the instruction given by UNO. May be there is gap but local administration works as per their ability and resources.

(1)Number of Human Resources

- How many staffs are mobilized?
Union parisad can mobilize only them and Village Defenses force and CPP come forward as well.
- Do you have any regulations/ rules for mobilization of staffs? no

(2)Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others: Union parisad office
- Equipments : Desks - File cabinets
Copy machine Computers
UPS Internet
TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form?
CPP union team leader receive phone call from upazila team leader. CPP receive from DD of Barisal control room. UP chairman received message through cell phone from UNO office.
 - What is communication means? : Cell phone
 - Where do you send the warning to? :
Union level CPP member & volunteer send the warning to community people using mega-phone. CPP & Union parisad was very active during MOHASSEN.
- What is communication means?
Signal Flag hoisting, Cell phone, mega-phone, and Mosque mike (few)

- How long does it take the time usually since receiving till sending?
40 minutes
- Contents of warning :
11 levels warning 6 levels warning Others:

Few words are given from cyclone MAHASEN message when the signal was 3; Dear community people, a cyclone was from in the deep Indian Ocean, it is moving northward over the same area. All fishing boat, trawler and marine vessel over North Bay and deep sea have been advised to come close to the coast. All of you are asked to keep prepared. It may cross over this area. We will update you time to time. Another call is a cyclone is coming like Aila so get prepared

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing due to lack of equipment. CPP needs vehicle, VHF wireless.

It is observed that cell phone network does not work smoothly sometime at the time of disaster

- Do you have communication radio in the district/ upazila/ unit? Yes
- How many percent does mobile phone cover in the area? 90%
- How many percent does Mosque (35) Microphone cover in the area? 60%
- How many percent does commercial/govt. power supply cover the area? No
Electricity. The union was prepared to get electricity but at the starting day Aila was happened and till now they are deprived from electricity.
- How many percent do residents have solar power system? 10%
- How many percent do information infrastructures below cover the area?
TV Network: 90% FM Radio: 40% AM Radio: 100%
Mobile Phone: 90%
- How many percent do residents have mobile phones? 65%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance: No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly upazila administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard is deployed here, they might be used to search and rescue activities. Bangladesh Navy has strong base in Khulna who participated in previous rescue work in this areas.

Children, elderly people and women get priority to rescue activities.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer. Fortunately, many international NGOs came here after cyclone Aila.

(5) Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and scrutinize by government official.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parishad or Upazila parishad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

After Mahasen dry food are send for people who took shelter in different places.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. Unfortunately this is merely a false request. Where do people go? The scarcity of cyclone shelter make resident unprotected.

- zoning for each evacuation shelter : No

Govt. wants to build cyclone shelter cum school. The number of cyclone centre is very minimum here (only 8) compare to other coastal area. After cyclone AILA, some internal NGOs have come forward but they did not construct the cyclone centre. One NGO called Sushilon build house (contain one room) with rain water harvesting tank and sanitation facility also. The house is capable to protect people from cyclone. They rehabilitated more than one hundred family.



The houses build by NGO

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not in good condition

- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

People are asking to store dry food personally. During cyclone Mahasen UP did not store dry food but ask businessman not to sale. Safe drinking water is scarcer here.

(2)Current Condition of shelters

- Number of shelters : 8 Existing: (most of them are good condition)
- Total capacity : 2500 Population ratio 8 for 37,611 people (8%)
- Solo use: Multi use: 100%
- Other purposes of multiuse shelter: shelter cum school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : SMC & UDMC
- Cost burden : Voluntarily

(4)Shelter Management Manual

- Do you have a shelter management manual? NO



Cyclone shelter given by donor organization named K.F.W (German)

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
No Idea
- Do you have obligation to record activities under state of emergency and report it?
Yes. Union Parisad

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below? No

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
Poultry					
Prawn					
Affected Mosque/Mondir					
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr, Aila or MAHASSEN
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

✓ Alert and Warning Stage:

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

CPP cannot go in every corner of the area due bad road condition. CPP has no vehicle and equipments given are very low quality.

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Cell phone network does not work smoothly sometime not at all at the time of disaster

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 6%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

5 people were died on the way of evacuation.

During AILA water came into the resident by over flowing embankment. Polder cannot protect. Polder becomes weak due shrimp cultivation. Shrimp cultivator insert water by cutting or holing polder. Water came suddenly and people cannot go secured place. Their live is matter of washed away.

It is our observation that people receive warning but the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching												
2	ongoing												
3	ongoing												
4	ongoing												
5	Passing												
6	Passing												
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✧ Union parishad chairman give assurance to bear the liability of the equipment maintenance.
- ✧ Sushilon is an NGO co-operation with other 8 donor agency run one rehabilitation project. They handover the house cum cyclone shelter with one rain water harvesting tank to 145 families through CDMP.
- ✧ The DMC and UP were very active during MAHASSEN. Union parishad and CPP work together during MOHASSEN. Some NGOs worked with CPP & DMC in this cyclone
- ✧ CPP warn people by megaphone, and hoist signal flag during MAHASSEN. The means of communication is cell phone only. The number of megaphone & other equipments are not sufficient. Sick or old people cannot be brought to cyclone shelter due to lack of stretcher.
- ✧ CPP are happy to get chance to warn people and help to preparedness activities. They are happy as people recognize them and acknowledge their role/contribution.
- ✧ Due to lack of vehicle CPP can cover only 40% of the area.
- ✧ CPP have no office, HF & VHF.
- ✧ Cell phone network does not work smoothly sometime not at all at the time of disaster.
- ✧ The battery of megaphone does not lasting long. The megaphones have low capacity.
- ✧ Repair and new polder/embankment construction is first priority
- ✧ The river is very rough here. The polder washed away in many places caused the tidal water came and out regularly and it remain until the repair the polder. The main demand is to go back to before Aila situation of environment.
- ✧ CCP also in need of suitable VHF Set so that instantly they could be in touch with Upzilla Head Quarter in case of failure of other communication mode, as happened recently
- ✧ Unfortunate that some people refrained from evacuating to cyclone Shelters in spite of Signal No.5 Such people through actual experience found Shelter Space so small in accommodating rush of people, with no toilet, no light, People had to stand there whole night back to back inside the room.
- ✧ Whether there could be any scope/arrangement for making token amount of payment once or twice a year to CPP Volunteers as encouragement

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Md. Shameem Hassan	UNO	Upazila office	01774936253
Babul kumar Debnath	UE	Upazila office	01720002010
Md. Akbar Hossain	UEO	Upazila office	01716951085
Md. Shahidul Islam	SAE	Upazila office	01916336228
Safiqul Islam	PIO	Upazila office	01712689809

(1)Responding Date and Hour

13 / 05 / 2013 (10:15 am – 1:00pm)

(2)Responding Place: UNO office, Koyra

(3)Interviewer: Mustafizur Rahman

Sukhen & Afrin



2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization: upazila parisad

(2)Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

Upazila Disaster Management Committee, PIO and CPP office are

responsible for disaster management at upazila level. CPP is a new body in the Khulna region started worked in 2011.

Upazilla chairman works as adviser now. During disaster, coordination among different unit headed buy UNO takes place.

(3)Number of Human Resources: UP DMC -35, PIO-2, CPP- 1005

Quorum: Two third of the member Enrollment:

(4)Population and Number of Household

Year: 2011 Source: upazila parisad Statistics, Koyra

Population:

Male: 95,993 Female: 96,541 Total: 193,391

Number of Household: 38,394

(5)Area

1775.41 skm (including Sunderban forest) 263 Square kilometer

(6)Number of Subordinate Government Agencies: 35

Let us know the number of subordinate government agencies.

One unit from every ministry should have existence at upazila level. Upazila parisad/ UNO are in charge of coordination among the agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		7	
Number of Gram		132	
Number of Para			
Number of Polder		3 (58/1, 58/2, 58/3)	

(7)Outline of Industry

Agriculture is the main industry particularly shrimp cultivation. The area looks like a desert at summer and wetland at rainy season. Some people catch fish in river, canal of sunderban forest.

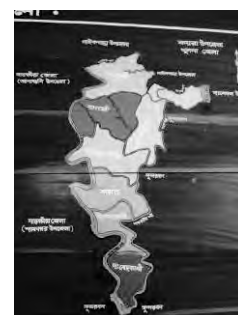
- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	25%	Only rice is produced in one season. The number of cow is very few. There is no KILLA for livestock in this upazila
Fisheries	60%	Fish culture is major victim of cyclone. Any minor tidal/ water cover flow can damage majority of fish pond
Business/ Manufacture	9 %	
Service	5 %	
Others	1%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

The beautiful hand-wring map is found.



3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

A 3 stored Building were constructed for Meteorological department very close to upazila bus stoppage but no staff is deployed and no equipment is set yet. No Hydrologic Observation Station is located here.



Rainfall:

Wind:

River level:



Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? YES
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

Since one community Radio station is active in this upazilla, they can easily airing/broadcasting necessary water report

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Frequently	People collect saline water from high tide water for their shrimp cultivation.
Cyclone	Irregularly	Cyclone cannot easily attack easily here. The mangrove forests protect this area from Cyclone.
River bank erosion	Every year	The south coast of the Koyra has been cracking/erosion every year.
Impact of salinity		

6. Normal Time Activities

No budget is allocated for normal activities. Some international NGOs are working here and arrange mock drill, awareness program and training for community people

6.1 Structural Framework

(1) Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

(2) Office and Equipments

Sole use office room

Equipments :

Desks

File cabinets

Copy machine

Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:

CPP got training on disaster issue (basic, first aid, rescue etc) after forming the unit volunteers.

- Emergency drill at district/ Upazila/ Union level: CPP
- Equipment maintenance : NO

All the equipments are given just couple of years ago. CPP do not face maintenance issue so far. They heard that if maintenance is required the concern equipment is surrendered to upper CPP or zonal office.

- Inter organizational/Stakeholder meeting: NO except with CPP
- Drawing/Reviewing/Updating hazard map:

NO hazard map is found in the roadside

- Residents awareness campaign:
A rally is held on the international Disaster day every year. The international NGO has been implanting program on residents' awareness after cyclone AILA.
- Residents evacuation drill:
CPP and some international NGOs organized drill on resident evacuation.

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

They (CPP or DMC) have no budget for normal time activities

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? NO

- Please describe gaps between the SOD and actual activities? If any.

During emergency they follow the instruction given by DC or department of disaster. May be there is gap but UNO or upazila administration works as per their ability and resources.

(1)Number of Human Resources

- How many staffs are mobilized?

Upazilla administration can mobilize enough staff from different agencies as well as NGOs.

- Do you have any regulations/ rules for mobilization of staffs? YES

(2) Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others:
- Equipments : Desks -2 File cabinets -1
Copy machine Computers
UPS Internet
TV set Radio receiver

7.2 Warning

(1) Warning

- Where do you receive the warning form?
CPP receive from control room Dhaka, also from District office (now Mr. Shahbuddin works as acting deputy director).
UNO/PIO receives from District office (DC, DRRO).

What is communication means? :

Cell/land phone, HF wireless, email and fax

- Where do you send the warning to? :
The DMC, UNO, PIO of upazila level send it to union level UP member & DMC. CPP send it bottom level i.e. from Upazila to Union level CPP member & volunteer.
- What is communication means?
Cell phone, direct communication, Mosque mike

- How long does it take the time usually since receiving till sending?
20 minutes
- Contents of warning :
11 levels warning 6 levels warning Others:

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing lack of equipment. CPP needs vehicle.

- Do you have communication radio in the district/ upazila/ unit? Yes
A community Radio (FM) is running in the Amadi union launched in 2011 as a test/pilot basis. The frequency can go 17 km to all direction. The centre is airing three times (9-11 am, 3 to 5 pm and 6-8 pm). It is well move for the local people to make aware on health, agriculture and social issue. The staffs of the centre think it is gaining more number of listener but they have no survey on it. They have telecasted weather report particularly recent cyclone (Mahasen)
- How many percent does mobile phone cover in the area? 98%
- How many percent does Mosque Microphone cover in the area? 100%
- How many percent does commercial/govt. power supply cover the area? 5%
- How many percent do residents have solar power system? 25%

How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 70% AM Radio: 100%

Mobile Phone: 95%

- How many percent do mobile phone network cover the area? 98%
- How many percent do residents have mobile phones? 95%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly upazila administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard has deployed here, they might use to search and rescue activities.

Children, elderly people and women get priority to rescues activities.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5) Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and scrutinize by government official.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parishad or Upazila parishad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. It is not possible to evacuate most people to cyclone shelter. The scarcity of cyclone shelter make resident unprotected.

- zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The number of cyclone centre is very minimum here compare to other coastal area. After cyclone AILA, some internal NGOs have come forward but they are not constructing the cyclone centre.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not in good condition
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

People are asking to store dry food personally. During cyclone Mahasen UNO/UP did not store dry food.

(2)Current Condition of shelters

- Number of shelters : 47 Existing: (most of them are good condition)
Plan:
- Total capacity : 14,000 Population ratio 47 for 193,391 people
- Solo use: Multi use: 70%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3) Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO

(4) Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
No Idea
- Do you have obligation to record activities under state of emergency and report it?
Yes, upazila, district administration record as much as they can.

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead	1	41			
Missing					
Injured	5	410			
Total Collapse Houses	3106				
Half Collapse Houses		42440			
Total Collapse Dike					
Half Collapse Dike					
Inundation Area	220 skm				
Inundation Depth					
Agriculture Damage		11500 hec			
Fisheries Damage		10364			
Livestock	35	1262			
Poultry					
Prawn					
Affected Mosque/Mondir		192			
No. of affected School/ College		79			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

✓ Alert and Warning Stage:

CPP can not go in every corner of the area due bad road condition

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 4%
- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident

2. They stayed the houses even after the warning

(Please describe the reason:

During AILA and Sidr water came into the resident are by over flowing. Polder can not protect. Polder becomes weak due shrimp cultivation. Firmer insert water by cutting or holing polder. Water came suddenly and people can not go secured place. Their live is matter of washed away.

It is our observation that people receive warning but the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching												
2	ongoing												
3	ongoing												
4	ongoing												
5	Passing												
6	Passing												
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✧ Inclusion of saline water should stop for the long run benefit. Now the situation in many union looks like desert, no green, no tree. The earth can easily be seen from long distances. Trees do not extract water in late summer, salinity are getting severe that time.
- ✧ In response to the of the question whether people known them or not as a CPP they reply that CPP participate in mock drill, awareness program, rally wearing their dress so now people can easily identify them by their dress and activities.
- ✧ Basic, signal & shelter, search & rescue, first aid, leadership training
- ✧ CPP heard about SoD
- ✧ Though CPP is new body here, it has gotten experience to deal cyclone management first time in Koyra. They warn people by megaphone, and hoist signal flag.
- ✧ Since CPP is very new here, their leadership was selected not elected. Women CPP volunteer give time whenever they are requested.
- ✧ CPP demand for cross country or region visit to gain experience.
- ✧ The height of Polder should be raised and plantation is essential to make it strengthen.
- ✧ The PIO informed that lack of earth, road maintenance or road/polder construction activities is hindered
- ✧ To organize DMC meeting need 300/400 taka. Who will pay the cost?
- ✧ Mosque mike is not functioning in Hindu community

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Sardar Matiar Rahman	Chairman	Union Parisad	01940037781
Md. Sariful Islam	Secretary	Union Parisad	01913647842
Abdullah Al Mamun	Union Team Leader	Union CPP	01916525091
Abdur Razzak	Signal	Union CPP	01922149079
Devjani Adhikary	Fast Aid	Union CPP	01924806862

(1) Responding Date and Hour

15 / 05 / 2013 (10:25 am – 1:00pm)

(2) Responding Place: Union parisad office, N. Bedthkashi

(3) Interviewer: Mustafizur Rahman

Sukhen & Afrin



Meeting with CPP

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization: DMC, UP & CPP

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management. UP themselves with village police and CPP with unit team leader and volunteer deal the disaster.

(3) Number of Human Resources: UP DMC -38, CPP- 135

Quorum: Two third of the member Enrollment:

(4) Population and Number of Household

Year: 2001 Source: Union parisad office Statistics, N. Bedthkashi

Population:

Male: 7280 Female: 7151 Total: 14431(now 20000)

Number of Household: 4,394

(5) Area

22.44 square km

(6) Number of Subordinate Government Agencies: 12

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			13
Number of Para/Mouza			1
Number of Polder			1(58/2)

(7) Outline of Industry

Agriculture is the main industry particularly shrimp cultivation. The area looks like a desert at summer and it has most green area among the unions. Some people catch fish in river, canal of sunderban forest.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	40%	Only rice is produced in one season. The number of livestock is very few. There is no KILLA for livestock in this upazila
Fisheries		Fish culture is major victim of cyclone. Any minor tidal/ water cover flow can damage

	45%	majority of fish pond
Business/ Manufacture	9 %	
Service	5 %	
Others	1%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

A 3 stored Building were constructed for Meteorological department very close to upazila bus stoppage but no staff is deployed and no equipment is set yet. No Hydrologic Observation Station is located here.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? YES
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

Since one community Radio station is active in this upazilla, they can easily airing/broadcasting necessary water report

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Frequently	People collect saline water from high tide water for their shrimp cultivation.
Cyclone	Irregularly	Cyclone cannot easily attack easily here. The mangrove forests protect this

		are from Cyclone.
River bank erosion	Every year	The south coast of this union very close to Mangrove forest (now world heritage) has been cracking/erosion every year. If one of the points of polder is broken by tidal surge is enough for water logging for the whole area.
Impact of salinity		



Effect salinity

River bank erosion

6. Normal Time Activities

No budget is allocated for normal activities. Some international NGOs are working here and arrange mock drill, awareness program and training for community people

6.1 Structural Framework

(1) Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

(2) Office and Equipments

Sole use office room

Equipments :	Desks	File cabinets
	Copy machine	Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
Islamic Relief, an international NGO start work with union parishad to prepare disaster management plan
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:
CPP got training on disaster issue (basic, first aid, rescue etc) after forming the unit volunteers.

Emergency drill at district/ Upazila/ Union level:
NGOs (Islamic Relief, JJS) arrange occasionally.

- Equipment maintenance : NO

All the equipments are given just couple of years ago. CPP do not face maintenance issue so far though some of the equipment are

not functioning. They heard that if maintenance is required the concern equipment is surrendered to upper CPP or zonal office.

- Inter organizational/Stakeholder meeting: NO except with CPP
- Drawing/Reviewing/Updating hazard map:
NO hazard map is found in the roadside
- Residents awareness campaign:
The international NGO has been implanting program on residents' awareness after cyclone AILA.
- Residents evacuation drill:
CPP said that some international NGOs organized drill on resident evacuation.

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

They (CPP or DMC) have no budget for normal time activities, they depend on NGOs

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? NO

public announcement. Union level CPP member & volunteer to community people using mega-phone as well as mosque mike.

- What is communication means?
Signal Flag hoisting, Cell phone, mega-phone, Mosque mike
- How long does it take the time usually since receiving till sending?
20 minutes
- Contents of warning :
11 levels warning 6 levels warning Others:

Few words are given from cyclone Mahsen when the signal was 3;
Dear community people, a cyclone was from in the deep Indian Ocean, all of you are asked to keep prepared. it may cross over this area. We will update you time to time.

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing lack of equipment. CPP needs vehicle.

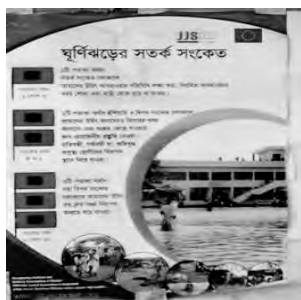
- Do you have communication radio in the district/ upazila/ unit? Yes
A community Radio (FM) is running in the Amadi union launched in 2011 as a test/pilot basis. The frequency can go 17 km to all direction. The centre is airing three times (9-11 am, 3 to 5 pm and 6-8 pm). It is well move for the local people to make aware on health, agriculture and social issue. They have telecasted weather report particularly recent cyclone (Mahasen)
The people of North Besthkasi union are not familiar with community radio very much. Very few listener recognize the Radio

- How many percent does mobile phone cover in the area? 98%
- How many percent does Mosque Microphone cover in the area? 75%
- How many percent does commercial/govt. power supply cover the area? 8%

- How many percent do residents have solar power system? 27%
- How many percent do information infrastructures below cover the area?
TV Network: 100% FM Radio: 50% AM Radio: 100%
Mobile Phone: 98%
- How many percent do residents have mobile phones? 95%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.



Activity of CPP during Mohashen

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly upazila administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard has deployed here, they might use to search and rescue activities. Bangladesh Navy has strong base in Khulna who participated in previous rescue work in this areas.

Children, elderly people and women get priority to rescues activities.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer. Fortunately, many international NGOs came here after cyclone Aila.

(5) Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and scrutinize by government official.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation. After Mahasen dry food are send for people who took shelter in different places.

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. Unfortunately this is mere a false request. Where do people go? The scarcity of cyclone shelter make resident unprotected.

➤ zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The number of cyclone centre is very minimum here (only 3) compare to other coastal area. After cyclone AILA, some internal NGOs have come forward but they are not constructing the cyclone centre.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not in good condition
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

People are asking to store dry food personally. During cyclone Mahasen UNO/UP did not store dry food.

(2)Current Condition of shelters

- Number of shelters : 3 Existing: (most of them are good condition)
Plan:
- Total capacity : 1,000 Population ratio 3 for 20.000 people
- Solo use: Multi use: 70%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO

(4)Shelter Management Manual

- Do you have a shelter management manual? NO



Road accessibility

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
No Idea
- Do you have obligation to record activities under state of emergency and report it?
No Idea

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
Poultry					
Prawn					
Affected Mosque/Mondir					
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

- ✓ Alert and Warning Stage:

CPP cannot go in every corner of the area due bad road condition

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

- ✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

It is not possible to evacuate most people to cyclone shelter.

- ✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

NGOs plays important role now.

- How many percent of residents did evacuate to shelters? 6%
- What were the causes of deaths? Please select below.

1. Warning did not deliver to the resident
2. They stayed the houses even after the warning

(Please describe the reason:

During AILA water came into the resident by over flowing. Polder cannot protect. Polder becomes weak due shrimp cultivation. Shrimp cultivator insert water by cutting or holing polder. Water came suddenly and people cannot go secured place. Their live is matter of washed away.

It is our observation that people receive warning but the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching												
2	ongoing												
3	ongoing												
4	ongoing												
5	Passing												
6	Passing												
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✪ After Aila, severe water logging created and stayed three years. The polder washed away in many place and since the areas is very equivalent to sea level, the tidal water came and out regularly and it remain until the repair the polder.
- ✪ We could not bury people then, everywhere was water logging. If people died, he or she was bring to high land to nearest upazila or union.
- ✪ Though CPP is new body here, it has gotten experience to deal cyclone management first time in Koyra. They warn people by megaphone, and hoist signal flag during Mahsen. Union CPP has no place or office to meeting, now they are 135 volunteer. It is not possible for them to rent an office. The study team is not sure about how long they will continue the activities. UP extend their hand to meet but their union parisad is occupied by coastguard, the newly rented office is very small.
- ✪ The means of communication is cell phone only. The content of warning message given by cell phone, the upazila team leader dictate and union unit leader write it down and disseminate by mega-phone as quickly as possible.
- ✪ Sick or old people cannot be brought to cyclone shelter due to lack of stretcher. CPP have no stretcher.
- ✪ When people are asked to go cyclone centre, the public call to UP member or CPP people- to where do we take shelter? CPP or UP member could not reply. People of here are subject to sweep away of cyclone water.
- ✪ Donor should keep in mind that tin-made house should not provided; the poor people sell it to other.
- ✪ One store room for dry food should be constructed in every union.
- ✪ Before AILA more than 60% people were engaged with agriculture now it is opposite.
- ✪ If one of the point of polder is broken by tidal surge is enough for water logging for the whole area

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Alhazz M.M.A. Mannan	Chairman	Union Parisad	01711571426
Asutosh Roy	Vice Principal	School	01720537326
Aupurbo Prosad Mondal	CPP Asst. Team Leader	CPP	01923579131
Md. Makshu Rahman	Volunteer	CPP	
Aleya Khatun	Volunteer	CPP	01964943074

(1) Responding Date and Hour

17 / 05 / 2013 (10:20 am – 1:00 pm)

(2) Responding Place: Union parisad office,

S. Bedthkashi

(3) Interviewer: Mustafizur Rahman

Sukhen & Afrin



Meeting with Union parisad
Chairman and CPP

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization: DMC, UP & CPP

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management. UP themselves with village police (locally called *Dafader* and *chakider*) and CPP with unit team leader and volunteer deal the disaster.

(3) Number of Human Resources: UP DMC -38, CPP- 135

Quorum: Two third of the member Enrollment:

(4) Population and Number of Household

Year: 2001 Source: Union parisad office Statistics, S. Bedthkashi

Population:

Male: 13400 Female: 13600 Total: 27000

Number of Household: 5247

(5) Area

27 square km

(6) Number of Subordinate Government Agencies: 12

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			9
Number of Para/Mouza			1
Number of Polder			1(58/2)

(7) Outline of Industry

Agriculture is the main industry particularly shrimp cultivation. Cent percent land is used in shrimp cultivation. Most of the farmers come from outside and taking land from local people by lease in. shrimp is capital inceptive venture. Local people are poor. They are not benefited at all rather saline water make their land barren for years. The area looks like a desert at summer. Some people catch fish in river, canal of sunderban forest.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		

	10%	
Fisheries	70%	Fish culture is major victim of cyclone. Any minor tidal/ water cover flow can damage majority of fish pond
Business/ Manufacture	9 %	
Service	5 %	
Others	6%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

A 3 stored Building were constructed for Meteorological department very close to upazila bus stoppage but no staff is deployed and no equipment is set yet. No Hydrologic Observation Station is located here.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? YES
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?
Since one community Radio station is active in this upazilla, they can easily airing/broadcasting necessary water report

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		The polder is weak and vulnerable to tidal surge

Flash flood	No	
Inside water inundation	Frequently	People collect saline water from high tide water for their shrimp cultivation.
Cyclone	Irregularly	Cyclone cannot easily attack easily here. The mangrove forests protect this are from Cyclone.
River bank erosion	Every year	The south and north coast of this union very close to Mangrove forest (now world heritage) has been cracking/erosion every year. More than 50 acre land goes under river and an area is reducing.



Vulnerable resident



Salinity and brick structure

6. Normal Time Activities

No budget is allocated for normal activities. Some international NGOs are working here and arrange mock drill, awareness program and training for community people.

6.1 Structural Framework

(1) Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

(2) Office and Equipments

Sole use office room

Equipments :	Desks	File cabinets
	Copy machine	Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?
Islamic Relief, an international NGO start work with union parishad to prepare disaster management plan
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:
CPP got training on disaster issue (basic, first aid, rescue etc) after forming the CPP unit.
- Emergency drill at district/ Upazila/ Union level:
NGOs arrange occasionally.
- Equipment maintenance :
All the equipments are given just couple of years ago. CPP do not face maintenance issue so far though some of the equipments are

not functioning. They heard that if maintenance is required the concern equipment is surrendered to upper CPP or zonal office.

- Inter organizational/Stakeholder meeting: NO except with CPP

- Drawing/Reviewing/Updating hazard map: Yes

- Residents awareness campaign:
The international NGO has been implanting program on residents' awareness after cyclone AILA.



Hazard map

- Residents evacuation drill:
CPP said that some international NGOs organized drill on resident evacuation.

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

They (CPP or DMC) have no budget for normal time activities, they depend on NGOs

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? NO

public announcement. Union level CPP member & volunteer to community people using mega-phone as well as mosque mike.

- What is communication means?
Signal Flag hoisting, Cell phone, mega-phone, and Mosque mike
- How long does it take the time usually since receiving till sending?
40 minutes
- Contents of warning :
11 levels warning 6 levels warning Others:

Few words are given from cyclone Mahsen message when the signal was 3: Dear community people, a cyclone was from in the deep Indian Ocean, all of you are asked to keep prepared. It may cross over this area. We will update you time to time. Another call is a cyclone is coming like Aila so get prepared

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing due to lack of equipment. CPP needs vehicle.

- Do you have communication radio in the district/ upazila/ unit? Yes

A community Radio (FM) is running in the Amadi union launched in 2011 as a test/pilot basis. The frequency can go 17 km to all direction. The centre is airing three times (9-11 am, 3 to 5 pm and 6-8 pm). It is well move for the local people to make aware on health, agriculture and social issue. They have telecasted weather report particularly recent cyclone (Mahasen)

The people of South Besthkasi union are not familiar with community radio very much. Very few listener recognize the Radio

- How many percent does mobile phone cover in the area? 92%
- How many percent does Mosque Microphone cover in the area? 55%

- How many percent does commercial/govt. power supply cover the area? 2%
- How many percent do residents have solar power system? 21%

- How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 50% AM Radio: 100%

Mobile Phone: 98%

- How many percent do residents have mobile phones? 95%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.



The condition of Road accessibility

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly upazila administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard is deployed here, they might be used to search and rescue activities. Bangladesh Navy has strong base in Khulna who participated in previous rescue work in this areas.

Children, elderly people and women get priority to rescues activities.

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer. Fortunately, many international NGOs came here after cyclone Aila.

(5)Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and scrutinize by government official.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

After Mahasen dry food are send for people who took shelter in different places.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. Unfortunately this is merely a false request. Where do people go? The scarcity of cyclone shelter make resident unprotected.

➤ zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The number of cyclone centre is very minimum here (only 5) compare to other coastal area. After cyclone AILA, some internal NGOs have come forward but they did not construct the cyclone centre.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not in good condition
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

People are asking to store dry food personally. During cyclone Mahasen UNO/UP did not store dry food. Safe drinking water is scarcer here.

(2)Current Condition of shelters

- Number of shelters : 7 Existing: (most of them are good condition)
Plan:
- Total capacity : 1,500 Population ratio 7 for 27,000 people
- Solo use: Multi use: 100%
- Other purposes of multiuse shelter: shelter cum school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO

(4)Shelter Management Manual

- Do you have a shelter management manual?
NO



Cyclone Shelter

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
No Idea
- Do you have obligation to record activities under state of emergency and report it?
No Idea

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
Poultry					
Prawn					
Affected Mosque/Mondir					
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

- ✓ Alert and Warning Stage:

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

CPP cannot go in every corner of the area due bad road condition

- ✓ Disaster Stage

This area exist below the sea level water

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

- ✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle



Rehabilitation

- How many percent of residents did evacuate to shelters? 6%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

During AILA water came into the resident by over flowing embankment. Polder cannot protect. Polder becomes weak due shrimp cultivation. Shrimp cultivator insert water by cutting or holing polder. Water came suddenly and people cannot go secured place. Their live is matter of washed away.

It is our observation that people receive warning but the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching												
2	ongoing												
3	ongoing												
4	ongoing												
5	Passing												
6	Passing												
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✧ Inclusion of saline water has produced huge negative impact. Now the situation in many union looks like desert, no green, no tree. The earth can easily be seen from long distances. Trees do not extract water in late summer, salinity are getting severe that time.
- ✧ The shrimp farmer need saline water and water collected from river by holing polder that makes the polder weaker. If one of the point of polder is broken by tidal surge is enough for water logging for the whole area
- ✧ CPP warn people by megaphone, and hoist signal flag during Mahsen. The means of communication is cell phone only. Sick or old people cannot be brought to cyclone shelter due to lack of stretcher. CPP have no stretcher.
- ✧ When people are asked to go cyclone centre, the public call to UP member or CPP people- to where do we take shelter? CPP or UP member could not reply. People of here are subject to sweep away of cyclone water. They die on the way to cyclone centre.
- ✧ One store room for dry food should be constructed in every union.
- ✧ Most of the houses are built with low cost material particularly by wood and tin and floor is *katcha* (earthen), any wind of velocity 50 km per hour can bulldoze the houses.
- ✧ This area exist below the sea level water
- ✧ Many people collect honey, wood, leave from nearest mangrove forest and, catch fishes in river go through the same forest. A rescue boat is necessary to rescue them
- ✧ After Aila, severe water logging created and stayed three years. The polder washed away in many places caused the tidal water came and out regularly and it remain until the repair the polder. The main demand is to go back to before aila situation of environment.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Sheik Hamim Hasan	DC	DC office	01715212277
Md. A. Malek	DRRO (acting)	DRRO office	01717098955

(1)Responding Date and Hour

29 / 05 / 2013

(2)Responding Place: DC office, CPP office, Khulna

(3)Interviewer: Mustafizur

Rahman, Sukhen & Afrina



Interview with DC



Interview with DRRO

2. General Information of Organization (District/ Upazila/ Union)

Name of Organization; District administration

(1)Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

DC is the head of district DMC and District Relief & Rehabilitation Office (DRRO) is the member secretary responsible for disaster management. During disaster DC deploys officers from different government agencies with CPP particularly. Although CPP is quite new here (not in district level) and working only few upazilla.

(2) Number of Human Resources: DRR office (7), DMC -63

Quorum: two third of the member

Enrollment:

DRR office human resources (7) are DRRO, Head assistant, Computer assistant, Wireless opera, Driver, Peon, guard

(3) Population and Number of Household

Year: 2011 Source: BBS

Population:

Male: 9,82,777

Female: 10,03,182

Total: 19,85,959

Number of Household: 4,69,890

(4) Area

3817.29 Square kilometer

(5) Number of Subordinate Government Agencies: 35

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	7		
Number of Union	79		
Number of Gram	1440		
Number of Para			
Number of Polder			

(6) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Business/ Manufacture		
Service		
Others		

(1) Map

- Could you provide map of District/ Upazila/ Union, if any?

The same map is available in website of GoB



Map of Satkhira District

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		Any 7 or 8 feet high tidal surge can submerge the lower /southern part of Satkhira district
Flash flood		
Inside water inundation	Twice per month	The southern part of Satkhira district is very close to sea level water. During high tide (twice per month), the inundated outside the polder. Aila broke many point of polder of Shaymnagar and Assasuni causes severe water logging for three years
Cyclone		Most devastating cyclone attacked in 1970 and thousands of people died. At that time no cyclone centre or polder was available. People have no place to evacuate. People died like other animal.
River bank erosion	Every year	River bank erosion is common phenomenon of Satkhira district particularly southern part or upazila.

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: District administration

B: Disaster Relief & Rehabilitation Office H: LGED

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District	C,A,G,E	C,G,F	D, H,E	C,A,F	E,F	F	B,F	E	E
Upazila									
Union									
Gram									
Para									
Individual									
CPP									

NGO= Caritas, JJS, BRAC, Rupantor, DSK, WFP, Sushilon,

- Inter organizational/Stakeholder meeting: only at disaster time.
- Drawing/Reviewing/Updating hazard map:
NGO developed hazard map are found in different upazilas.
- Residents awareness campaign:
Some national and international NGOs are implementing awareness program. It will be appreciated if there was coordination among the agencies.
- Residents evacuation drill:
NGOs arrange occasionally.

6.3 Financial Status:

NO budget except disaster/emergency time. DRRO office reserves 50 metric ton Rice and 200 thousand taka per year

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? YES
- Please describe gaps between the SOD and actual activities? If any.

(1)Number of Human Resources

- How many staffs are mobilized?

District level administration can mobilize hundreds of civil government employee. As district head quarter Satkhira doesn't face human resource to mobilize. Bangladesh Boarder guard and Coaster guard has their base here and lot of international & national NGOs are working here.

Each union parisad can mobilize more than fifty people. Red Crescent mobilizes their own resources. In few upazilla, CPP come forward as well.

- Do you have any regulations/ rules for mobilization of staffs? YES

(2)Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?

Same as normal time DC/ UNO/ PIO office

Others: DRR office is used as emergency head quarter/control room.

During Mahsen, when it was signal number 4 the Satkhira DC office declare DRR office as control room. Initially it was open at 8 am and continues till 8 pm.

- Equipments : Desks File cabinets
Copy machine Computers
UPS Internet
TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? :

Mr. DC of Satkhira receives their department as well as meteorological department. Disaster Management Bureau is in charge of distributing the warning to District level DRR office.

Satkhira has no CPP staff at district level at the moment but they are working in Shaymnagar and Assasuni upazila. CPP receive from control room or concern CPP unit/team leader.

- What is communication means? : Cell/land phone, e-mail, SMS

- Where do you send the warning to?
The DMC of district level and DRR office send it to Upazila level PIO, DMC then union level UP member, chairman & DMC.
CPP send it bottom level i.e. from upazila to Union level CPP member & volunteer.
- What is communication means? Cell phone. Formal letter, SMS (short message services)
- How long does it take the time usually since receiving till sending?
30 minutes
- Contents of warning :
11 levels warning 6 levels warning Others:
At first people are informed the origin and location of the cyclone velocity of wind and possible height of tidal surge, then the possibility to attack and timing etc. people are asked to keep prepared.

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.
Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.
- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?
Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing due to lack of equipment. CPP needs vehicle.
UP and CPP also use mosque mike during emergency but many Hindu dominated areas has no mike.
In many occasion powers supply/electricity is not available during emergency.
- Do you have communication radio in the district/ upazila/ unit?
- How many percent does mobile phone cover in the area? 100%
- How many percent does Mosque Microphone cover in the area? 85%
- How many percent does commercial/govt. power supply cover the area?
20%
- How many percent do residents have solar power system? 20%

- How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 80% AM Radio: 100%

Mobile Phone: 98%

- How many percent do residents have mobile phones? 95%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

DC as a head of DMC at district level issues warning and evacuation order.

Other downward agencies are instructed to follow the order.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance

During the disaster local government bodies, CPP, DMC work together. They call an emergency meeting and plan for the evacuation. In many occasions they use force (police) to evacuate people.

(2) Shelter Management:

Normally SMC (school management committees) manage the shelter. Shelter management guidelines have developed and to implement it necessary action is under process.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly District administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Navy and Coast guard has strong base in Satkhira who participated in previous rescue work in this area.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people come forward to help them. CPP, red-crescent, and different NGOs play important roles and work together to help the sufferer.

5) Damage Survey:

The survey conducted by UP. UP collect information and scrutinize by government officials.

Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

DRRO office reserves 50 metric ton Rice and 200 thousand (200,000) taka for emergency per year. District administration can allocate budget considering disaster situation. Upaazila parisad have no budget but UNO manage if upper management instruct o allocate from other source.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. Unfortunately this is merely a false request. Where do people go? The scarcity of cyclone shelter make resident unprotected.

- zoning for each evacuation shelter NO.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed to construct.

- evacuation route: Access road are not in good condition
- shelter capacity: 300-350 persons per cyclone shelter
- storage of food and water, and so on:

Generally there is no food storage for emergency even no safe drinking water. Government stores rice but not as a dry food. But administrations ask to businessman not to sell dry food for the time being and buy or collect from them if it is required.

After Mahasen dry food are send for people who took shelter in different places. People are asking to store dry food personally.

(2)Current Condition of shelters

- Number of shelters : Existing: ~~80% good condition~~ Plan:
- Total capacity : Population ratio 157 for 23,18,527

- Solo use: few Multi use: Most
- Other purposes of multiuse shelter: shelter cum school or union parisad.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3) Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Mostly SMC
School management committee generally and school head teacher particularly responsible to maintain the SC. During the disaster time CPP and Union Parishad also manage the shelter.
- Cost burden : LGED/GoB & NGO sponsored

(4) Shelter Management Manual

- Do you have a shelter management manual?
It is hears Bangladesh government has developed a manual but it doest not reached here.

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? YES
- Do you have obligation to record activities under state of emergency and report it? YES

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	UNO, UP, CPP, Police	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Items	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	220	190			
Highest Sea Level					
Total Rainfall					
Dead		59			
Missing					
Injured		1509			
Total Collapse Houses		106325			
Half Collapse Houses		49195			
Total Collapse Dike		179 km			
Half Collapse Dike		149 km			
Inundation Area					
Inundation Depth					
Agriculture Damage		453 hector			
Fisheries Damage					
Livestock		904			
Poultry		330238			
No. of Cyclone Shelter					
Affected School, College Mosque/ Modir		582			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any. YES
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities are ignored due to budget crisis

Training and awareness program are implemented by NGOs

✓ Alert and Warning Stage:

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

CPP cannot go in every corner of the area due bad road condition

Mosque Mike cannot cover all the area

✓ Disaster Stage

This area exist below the sea level water

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

✓ Rehabilitation Stage

Quick rehabilitation is not possible

CPP has no scope to rehabilitate activities

Fund is major obstacle

● How many percent of residents did evacuate to shelters?

No problem for urban area but rural people cannot be evacuated more than 5%

- What were the causes of deaths? Please select below.
 1. Warning didn't deliver to the residents well ahead of time
 2. They stayed the houses even after the warning.

(Please describe the reason:

Water came into the resident area by over flowing embankment during AILA. Polder could not protect. Polder becomes weak due to shrimp cultivation. Shrimp cultivator insert water by cutting or holing polder. Water came suddenly and people cannot go to secured place. Their live is matter of washed away.

It is our observation that people receive warning but the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✧ SMS used as communication means widely during cyclone MAHASEN
- ✧ There is no meteorological/hydrological office/station in this upazila. UP chairman said that one meteorological office of Alipur of India which (very close to Shaymgar) weather forecasting is more correct than the forecasting Dhaka.
- ✧ According to DC Satkhira the cyclone centre management authority should go to the union parisad since UP is involved with many activities concern to disaster like rehabilitation and warning, damage survey etc)
- ✧ Political intervention, manipulation and legal hazard created problem to implement rehabilitation work.
- ✧ CDMP have planned to implement normal time activities like training for different stakeholder, campaign, awareness program etc.
- ✧ One Germany made siren was installed in Satkhira office recently. DRR office was not informed on Siren and even nobody of DRR office can operate it.
- ✧ Whenever cyclone take place it require 1 day to remove trees and other structure from roads.
- ✧ Disaster management plan has only written view but no practical view. Only some simple programs like rally are held. There is no budget.
- ✧ At union level CPP did not get office room in Upazila Parisad. It is suppose to get one room from UP office.
- ✧ Pacca (Brick build House) may be solution of cyclone as it is cyclone tolerant and worksas cyclone centre.
- ✧ Coordination among NGOs and government is important. We (DC or district administration) attend NGO's launching program. DC told that it seems our duty is finished with photo session event.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Zafor Rana	PIO	Upazila office	01717155362
Nazmul Islam	Fast Aid	Upazila CPP	01727813903
Sahazahan	Shelter	Upazila CPP	01713922743
Md. Ramzan	Fast Aid	Upazila CPP	017100830682
Md. Abdur Rashid NAntu	Signal	Upazila CPP	01710120714

(1) Responding Date and Hour

26 / 05 / 2013 (10:05 am – 1:00pm)

(2) Responding Place: UNO office, Shaymnagar

(3) Interviewer: Mustafizur Rahman

Sukhen & Afrin



Shymnagar upazila
PIO office



Upazila CPP

2. General Information of Organization

(District/ Upazila/ Union)

(1) Name of Organization; upazila parisad, Shaymnagar

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

Upazila Disaster Management Committee, PIO and CPP office are

responsible for disaster management at upazila level. CPP is a new body in the Satkhira region started worked in 2011.

Upazilla chairman works as adviser now. During disaster, coordination among different unit headed by UNO takes place.

(3)Number of Human Resources: UP DMC -43, PIO-2, CPP- 2055 (unit # 137)

Quorum: Two third of the member Enrollment:

(4)Population and Number of Household

Year: 2011 Source: upazila parisad Statistics, Shaymnagar

Population:

Male: 153,441 Female: 164,813 Total: 318,254

Number of Household: 72,279

(Only 5000 people add during last 10 years. it is reducing process. We think due to prolong water logging many people migrate other place)

(5)Area

1968 square km (including Sunderban forest 1622 Square kilometer)

(6)Number of Subordinate Government Agencies:

Let us know the number of subordinate government agencies.

One unit from every ministry should have existence at upazila level. Upazila parisad/ UNO are in charge of coordination among the agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		12	
Number of Gram		218	
Number of Para			
Number of Polder			

(7)Outline of Industry

Shaymnagar is the largest upazila of Satkhira district. Agriculture is the main industry particularly shrimp cultivation. The area looks like a desert at summer and wetland at rainy season.

Aila left behind many devastating impact. The water logging stayed here for

more than two years. The saline water destroyed lives and livelihood of the areas. The main demand is to go back to before aila situation of environment. The livelihood of many people depends on Sunderban forest and fishermen catch fish in river, canal of sunderban forest.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	10%	Agriculture activity is increasing
Fisheries	70%	Fish culture is major victim of cyclone. Any minor tidal/ water cover flow can damage the most of fish pond
Business/ Manufacture	9 %	
Service	5 %	
Others	1%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Frequently	After Aila, severe water logging created and stayed three years. The polder washed away in many place and since the areas is very equivalent to sea level, the embankment is easy attack of wave and tidal water. People collect saline water from high tide water for their shrimp cultivation.
Cyclone	Irregularly	Cyclone cannot easily attack easily here. The mangrove forests protect this are from Cyclone.
Impact of salinity		

6. Normal Time Activities

No budget is allocated for normal activities. Some international NGOs are working here and arrange mock drill, awareness program and training for community people

6.1 Structural Framework

(1) Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

(2) Office and Equipments

Sole use office room:

CPP did not get office room in Upazila Parisad

Equipments :

Desks

File cabinets

Copy machine

Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? Yes
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:

CPP got training on disaster issue (basic, first aid, rescue etc) after forming the unit volunteers.

- Emergency drill at district/ Upazila/ Union level:

Some NGOs are working here who e arrange occasionally emergency drill. CPP are involved with event. Mock drill held in Ramazan nagar (union #6). It was 6 day long training. CPP participated wearing their uniform. They also participated in rally for national disaster day

- Equipment maintenance :

The main problem of equipment maintenance is there is no accountability if equipments are damaged or out of order. All the equipments are given just couple of years ago. CPP do not face maintenance issue so far. They heard that if maintenance is required the concern equipment is surrendered to upper CPP or zonal office.

- Inter organizational/Stakeholder meeting: NO except with CPP
- Drawing/Reviewing/Updating hazard map:
NGO developed hazard map is found in the roadside
- Residents awareness campaign:
A rally is held on the international Disaster day every year. Some international NGO has been implanting program on residents' awareness after cyclone AILA.
- Residents evacuation drill:
CPP and some international NGOs organized drill on resident evacuation. Mock drill held in Ramazan nagar (union #6). It was 6 day long training. CPP participated wearing their uniform.

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

They (CPP or PIO) have no budget for normal time activities but PIO spent firstly from their own pocket and adjust latter in emergency time..

PIO can allocate highest 20,000 BDT for per family in emergency case.

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing

Orders on Disaster: SOD”? Yes

- Please describe gaps between the SOD and actual activities? If any.
During emergency they follow the instruction given by DC or department of disaster in the light of SoD. They try to follow as much as possible considering local situation.

(1)Number of Human Resources

- How many staffs are mobilized?
Upazilla administration can mobilize enough staff from different agencies as well as NGOs. CPP can 2055
- Do you have any regulations/ rules for mobilization of staffs?

(2)Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
- Others:
Control room opened at 13 May 2013 at PIO Office of Saymnagar for cyclone MAHASSEN. It continued till 16 May 2013. One Tag office was deployed for each union and the control room was open for round the clock, duty roster of staffs (8) were set and stayed at office by turn. Staff leave from the station were cancelled. Medical teams were formed for every union.
- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receive

7.2 Warning

(1)Warning

- Where do you receive the warning form?

UNO/PIO receives from District office (DC, DRRO) and from meteorological office of Dhaka. PIO collect all the necessary data and information from inter-net

CPP receive from control room Dhaka, also from Mr. Hafiz Ahmed (works as acting deputy director and responsible for Shaymnagar upazila).

- What is communication means? :

Cell/land phone, email and fax

CPP used Megaphone to announce cyclone MAHASSEN by walking and by moto-cycle.

- Where do you send the warning to? :

The DMC, UNO, PIO of upazila level send it to union level UP chairman & DMC. CPP send it bottom level i.e. from Upazila to Union level CPP member & volunteer.

- What is communication means?

Cell phone, direct communication.

- How long does it take the time usually since receiving till sending?

40 minutes

- Contents of warning :

11 levels warning 6 levels warning Others:

Few words are given from cyclone MAHASSEN message when the signal was 3; Dear community people, a cyclone was from in the deep Indian Ocean, it is moving northward over the same area. All fishing boat, trawler and marine vessel over North Bay and deep sea have been advised to come close to the coast. All of you are asked to keep prepared. It may cross over this area. We will update you time to time. They also said that a cyclone is coming like Aila so get prepared

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community

and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing due to lack of equipment.

- Do you have communication radio in the district/ upazila/ unit? No
- How many percent does mobile phone cover in the area? 100%
- How many percent does Mosque Microphone cover in the area? 70%
- How many percent does commercial/govt. power supply cover the area? 15%
- How many percent do residents have solar power system? 30%

- How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 100% AM Radio: 100%

Mobile Phone: 100%

- How many percent do residents have mobile phones? 80%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.



Upazila PIO office

7.3 The Other Activities

Could you explain regarding activities below? If any.

- (1) Evacuation Guidance: No idea

- (2) Shelter Management:

SMCs are managing only those are school cum cyclone centers. DMC

should include in the management committee

(3)Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly upazila administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh boarder Guard (BGB) has deployed here, they might use to search and rescue activities.

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5)Damage Survey:

The survey conducted by UP. UP collect information and scrutinize by government official.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. It is not possible to evacuate most people to cyclone shelter. The scarcity of cyclone shelter make resident unprotected.

- zoning for each evacuation shelter: NO

Govt. wants to build cyclone shelter cum school. The number of cyclone centre is very minimum here compare to other coastal area. After cyclone AILA, some internal NGOs have come forward but they are not constructing the cyclone centre.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not in good condition
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

People are asking to store dry food personally during cyclone Mahasen and PIO stored dry food also.

(2)Current Condition of shelters

- Number of shelters : 39 Existing: (most of them are good condition)
Plan:
- Total capacity : 17,000 Population ratio 39 for 318,000 people
- Solo use: Multi use: 80%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO

(4)Shelter Management Manual

- Do you have a shelter management manual?
PIO heard that government has developed a manual will effective very soon

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? Yes
- Do you have obligation to record activities under state of emergency and report it? Yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead	1	41			
Missing					
Injured	5	410			
Total Collapse Houses	3106				
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area	220 skm				
Inundation Depth					
Agriculture Damage		11500 hec			
Fisheries Damage		10364			
Livestock	35	1262			
Poultry					
Prawn					
Affected Mosque/Mondir		192			
No. of affected School/ College		79			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

✓ Alert and Warning Stage:

CPP can not go in every corner of the area due bad road condition

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Blackout of electricity and cell phone network failure

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

The allocation should end on time

- How many percent of residents did evacuate to shelters? 8%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

During AILA water came into the resident by over flowing. Polder becomes weak due to shrimp cultivation. Farmer inserts water by cutting or holing polder. Water came suddenly breaking the embankment/polder and people could not go secured place. Their live is matter of washed away.

It is our observation that people receive warning but they did not take shelter earlier. On the other hand the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching												
2	ongoing												
3	ongoing												
4	ongoing												
5	Passing												
6	Passing												
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✧ Control room opened at 13 May 2013 at PIO Office of Shaymnagar. It continued till 16 May 2013. One Tag office was deployed for each union and the control room was open for round the clock, duty roster of staffs (8) were set and stayed at office by turn. Staff leave from the station were cancelled. Medical teams were formed for every union.
- ✧ PIO office found very efficient. They collected data and information on MAHASSEN from different websites. They kept ready 30 local engine run boat and 5 pickups for evacuation and relief distribution. To protect the polder/ embankment 6000 bag was ready
- ✧ The largest DMC size found in Shaymnagar. It included 43 member including local press/ journalist. DMC meet very quickly when they heard the news of cyclone this time.
- ✧ Upazila administration issued order to store dry food and shopkeeper/businessmen were asked not to sell the dry food
- ✧ PIO think 23000 people took shelter in this MAHASSEN in different cyclone centers. 5000 BDT. Were allocated for each cyclone centre and total 200000BDT were allocated. All the NGO works here were ask to keep food ready food for sheltered people.
- ✧ PIO received 17 SMS from DDM this time and kept all as a records
- ✧ PIO sent SoS form to upper administration doing quick appraisal of damage and did fax to NDRCC.
- ✧ Lots of NGOs came here after Aila to assist them in kind and cash but there was no coordination among the NGO and GO. we do not find visible output considering amount of assistance
- ✧ CPP warn people by megaphone, hoist signal flag and bring community people to the cyclone shelter during Mahsen.
- ✧ Local people appreciate CPP's activity
- ✧ CPP demand an office, arrange meeting in every three month and quality equipment and budget for normal activities like awareness program, campaign, mock drill etc. They also demand cross visit to gather and share experience to make them more efficient. CPP also demand recognition and life insurance facility
- ✧ A list of disabled people is required. At the moment, CPP or anybody does not know how many people are disabled in this upazila who have to be brought into cyclone centre during disaster. A survey can find out the concern people.
- ✧ CPP got 32 bulletins from control room and kept all as a document.
- ✧ If there is arrangement of dry food and drinking water in SC then it works as incentive. Emergency medicine is another requirement
- ✧ Access road to cyclone centre is very bad. It is impossible for disabled pregnant women, aged and children to SC.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
G.M. Masudul Alam	Chairman	Gabura Union Parisad	01711310363
Md. Hefazul Islam	Secretary	Gabura Union Parisad	01820577231
Md. Abu Taleb	Unit Team Leader	CPP	01911514963
Abdul Matin	UDMC member	Gabura Union Parisad	01714949377
Soukot Hossain	UDMC member	Gabura Union Parisad	01925228555

(1)Responding Date and Hour

27 / 05 / 2013 (10:15 am – 1:00 pm)

(2)Responding Place:

Union parisad office, Gabura



(3)Interviewer: Mustafizur Rahman
Sukhen & Afrin

Meeting with Union
parisad Chairman and
CPP

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization: UP, CPP, DMC

(2)Organization Chart

Could you provide the latest organization chart? if any.

- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management.

It is heard that the CPP and UP have no coordination during MAHASSEN. DMC does not meet together, its activities are dysfunctional. UP

member/chairman personally was active.

(3) Number of Human Resources: UP DMC -35, CPP- 135 (9 unit)

Quorum: one third of the member Enrollment:

(4) Population and Number of Household

Year: 2001 Source: Union parisad office Statistics, Gabura

Population:

Male: 19,307 Female: 19,518 Total: 38825 (now 42000 guess)

Number of Household: 7491

(5) Area: 33 square mile

(6) Number of Subordinate Government Agencies: 12

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			15
Number of Para/Mouza			
Number of Polder			1(15)

(7) Outline of Industry

Shrimp cultivation is the main industry. Now cent percent land is used in shrimp cultivation though people realize that shrimp cultivation harm the environment enormously. Land lost its productivity. Total land becomes barren for agriculture. Shrimp is capital inceptive venture that caused unemployment.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	5%	
Fisheries	87%	Fish culture is major victim of cyclone. Any minor tidal/ water cover flow can damage majority of fish pond
Business/ Manufacture	2 %	
Service	1 %	
Others	6%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		The polder is weak and vulnerable to tidal surge
Flash flood	No	
Inside water inundation	Frequently	People collect saline water from high tide water for their shrimp cultivation.
Cyclone	Irregularly	Cyclone cannot easily attack here. The mangrove forests protect this area from Cyclone.
River bank erosion	Every year	Gabura union is surrounded by river and last human settlement to Mangrove forest now world heritage. More than 3000 acres of land went under river and an area is reducing.



Salinity and brick structure



Vulnerable resident

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Caritas, Ulashi S. Sangha, DAM, Rupantor, WFP, Sushilon, etc. CCDB

6. Normal Time Activities

No budget is allocated for normal activities. Some international NGOs are working here and arrange mock drill, awareness program and training for community people.

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP-135 Part-time:

(2) Office and Equipments

Sole use office room: CPP have no office. Chairman house works as UP office.

Equipments :	Desks	File cabinets
	Copy machine	Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? YES
An NGO start work with union parisad to prepare disaster management plan
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:
CPP got training on disaster issue (basic, first aid, rescue etc) after forming the CPP unit. UP members require training
- Emergency drill at district/ Upazila/ Union level:
NGOs arrange occasionally.
- Equipment maintenance :
All the equipments are given just couple of years ago. CPP do not face maintenance issue so far though some of the equipments are

not functioning. They heard that if maintenance is required the concern equipment is surrendered to upper CPP or zonal office.
UP think they will able to raise fund for maintenance if rescue boat is given

- Inter organizational/Stakeholder meeting: NO
- Drawing/Reviewing/Updating hazard map:
- Residents awareness campaign:
 The international NGO has been implanting program on residents' awareness after cyclone AILA.
- Residents evacuation drill:
 CPP said that some international NGOs organized drill on resident evacuation.

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

They (CPP or DMC) have no budget for normal time activities, they depend on NGOs

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? NO

people using mega-phone. The UP use same equipment and mosque mike

- What is communication means?
Signal Flag hoisting, Cell phone, mega-phone, and Mosque mike
- How long does it take the time usually since receiving till sending?
40 minutes
- Contents of warning :
11 levels warning 6 levels warning Others:

Few words are given from cyclone MAHASEN message when the signal was 3; Dear community people, a cyclone was from in the deep Indian Ocean, it is moving northward over the same area. All fishing boat, trawler and marine vessel over North Bay and deep sea have been advised to come close to the coast. All of you are asked to keep prepared. It may cross over this area. We will update you time to time. Another call is a cyclone is coming like Aila so get prepared

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing due to lack of equipment. CPP needs vehicle, VHF wireless.

It is observed that cell phone network does not work smoothly sometime at the time of disaster

- Do you have communication radio in the district/ upazila/ unit?
- How many percent does mobile phone cover in the area? 98%
- How many percent does Mosque Microphone cover in the area? 55%
- How many percent does commercial/govt. power supply cover the area? 0%
- How many percent do residents have solar power system? 50%
- How many percent do information infrastructures below cover the area?

TV Network: 100%

FM Radio: 50%

AM Radio: 100%

Mobile Phone: 98%

- How many percent do residents have mobile phones? 90%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.



The condition of Road accessibility

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly upazila administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard is deployed here, they might be used to search and rescue activities. Bangladesh Boarder Guard (BGB) has strong base in Shaym Nagar who participated in previous rescue work in this areas.

Children, elderly people and women get priority to rescue activities.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer. Fortunately, many international NGOs came here after cyclone Aila.

(5) Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and scrutinize by government official.

Even they survey if tornado takes place

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parishad or Upazila parishad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

After Mahasen dry food are send for people who took shelter in different places.

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. Unfortunately this is merely a false request. Where do people go? The scarcity of cyclone shelter make resident unprotected.

➤ zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The number of cyclone centre is very minimum here (only 5) compare to other coastal area. After cyclone AILA, some internal NGOs have come forward but they did not construct the cyclone centre.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not in good condition
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

People are asking to store dry food personally. During cyclone Mahasen UP did not store dry food but ask businessman not to sale. Safe drinking water is scarcer here.

Dry food collection is quite problematic in this union

(2)Current Condition of shelters

- Number of shelters : 6 Existing: (most of them are good condition)
Plan: 2
- Total capacity : 1,900 Population ratio 6 for 42000 people
- Solo use: Multi use: 100%
- Other purposes of multiuse shelter: shelter cum school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
No Idea
- Do you have obligation to record activities under state of emergency and report it?
No Idea

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
Poultry					
Prawn					
Affected Mosque/Mondir					
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr, Aila or MAHASSEN
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

✓ Alert and Warning Stage:

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

CPP cannot go in every corner of the area due bad road condition

✓ Disaster Stage

This area exist below the sea level water

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Cell phone network does not work smoothly sometime not at all at the time of disaster

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 5%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

During AILA water came into the resident by over flowing embankment. Polder cannot protect. Polder becomes weak due shrimp cultivation. Shrimp cultivator insert water by cutting or holing polder. Water came suddenly and people cannot go secured place. Their live is matter of washed away on the way to go cyclone centre.

It is our observation that people receive warning but the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching												
2	ongoing												
3	ongoing												
4	ongoing												
5	Passing												
6	Passing												
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✧ This is the union where gap between running chairman and CPP leader is open and inharmonious. CPP members were selected by previous union chairman. Anyway the new CPP has gotten experience to deal cyclone management first time. They warn people by megaphone, and hoist signal flag during MAHASSEN. Like other CPP in Khulna region, CPP has no place or office.
- ✧ CPP member should be professional. Politically selected volunteer does not work well. People trust the words of CPP now and it is better if we keep it beyond sectarianism. CPP think the conflict will be stopped when the new committee will be form by election.
- ✧ Chairman received message from PIO, UNO even from DC Khulna. He said he stayed in cyclone centre with resident/local people.
- ✧ Some people were not interest to come to cyclone centre. They said let the cyclone worse, then we will go SC.
- ✧ Gabura is most remote area of Shaymnagar union surrounded by river and last human settlement to Mangrove forest now world heritage. More than 3000acres of land went under river and an area is reducing.
- ✧ Repair and new polder/embankment construction is first priority. UP propose 100 feet base 20 feet high and 15 feet top polder. The height of Polder should be raised and plantation is essential to make it strengthen.
- ✧ One of interesting observation of UP is the water level of see in 1947 was lesser than now and the height of the polder was 5 feet higher than now. Both the issue is threat for the region.
- ✧ Safe drinking water is scarcer here. The quality of ground water is not good. NGOs are introducing rain water collection and utilize.
- ✧ Access road to cyclone centre is very bad. It is impossible for disabled pregnant women, aged and children to SC
- ✧ UP think they will able to raise fund for maintenance if rescue board is given
- ✧ This area exist below the sea level water



over fishing



area exist below the sea level water

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Amdadul Islam	Chairman	Union Parisad	01711965474
Shahidul Islam	Unit team leader	CPP	01717811233
Md. Bani Amin	Unit team leader	CPP	01917937334
Devdas Kumar Sarkar	Unit team leader	CPP	01736830116
Abdul Malek Gazi	Unit team leader	CPP	01917655122

(1) Responding Date and Hour

28 / 05 / 2013 (10:30 am – 1:00 pm)

(2) Responding Place:

Union parisad office, Padmapukur



(3) Interviewer: Mustafizur Rahman
Sukhen & Afrin

Meeting with Union
parisad Chairman and
CPP

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization: UP, CPP, DMC

(2) Organization Chart

Could you provide the latest organization chart? if any.

- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management.

(3)Number of Human Resources: UP DMC -35, CPP- 255 (17 unit)

Quorum: one third of the member Enrollment:

(4)Population and Number of Household

Year: 2001 Source: Union parisad office Statistics, Padmapukur

Population:

Male: 13,311 Female: 13,136 Total: 26,447 (now 32,000)

Number of Household: 6235

(5)Area: 35 square mile

(6)Number of Subordinate Government Agencies: 12

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			15
Number of Para/Mouza			4
Number of Polder			1(7/1)

(7)Outline of Industry

Shrimp cultivation is the main industry. Now cent percent land is used in shrimp cultivation though people realize that shrimp cultivation harm the environment enormously. Land lost its productivity. Total land becomes barren for agriculture. Shrimp is capital inceptive venture that caused unemployment.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	5%	
Fisheries	60%	Fish culture is major victim of cyclone. Any minor tidal/ water cover flow can damage majority of fish pond
Business/ Manufacture	5 %	
Service	3 %	
Others/day laborer	27%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

3. Meteorological/ Hydrologic Observation Station:

There is no meteorological/hydrological office/station in this upazila. UP chairman said that one meteorological office of Alipur of India which (very close to Shaymnagar) weather forecasting is more correct than the forecasting Dhaka.

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		The polder is weak and vulnerable to tidal surge
Flash flood	No	
Inside water inundation	Frequently	People collect saline water from high tide water for their shrimp cultivation.
Cyclone	Irregularly	Cyclone cannot easily attack here. The mangrove forests protect this area from Cyclone.
River bank erosion	Every year	Padmapukur union is surrounded by river and very close to sundarban Mangrove forest (world heritage). More than 3000 acres of land went under river and an area is reducing.

6. Normal Time Activities

No budget is allocated for normal activities. Some international NGOs are working here and arrange mock drill, awareness program and training for community people.

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP-255 Part-time:

(2) Office and Equipments

Sole use office room: CPP have no office.

Equipments :	Desks	File cabinets
	Copy machine	Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? YES
An NGO start work with union parisad to prepare disaster management plan
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:
CPP got training on disaster issue (basic, first aid, rescue etc) after forming the CPP unit. UP members require training but chairman received training on disaster issue.
- Emergency drill at district/ Upazila/ Union level:
NGOs arrange occasionally.
This union observes AILA Day (25 May) and it try to arrange emergency drill every year
- Equipment maintenance :

All the equipments are given just couple of years ago. CPP do not face maintenance issue so far though some of the equipments are not functioning. They heard that if maintenance is required the concern equipment is surrendered to upper CPP or zonal office.

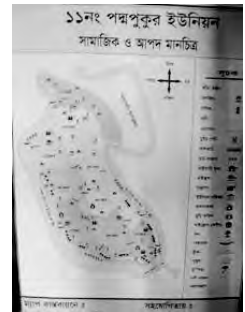
UP think they will able to raise fund for maintenance if rescue boat is given

- Inter organizational/Stakeholder meeting: NO

- Drawing/Reviewing/Updating hazard map:

- Residents awareness campaign:

The international NGO has been implanting program on residents' awareness after cyclone AILA.



Hazard map

- Residents evacuation drill:

CPP said that some international NGOs organized drill on resident evacuation.

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

They (CPP or DMC) have no budget for normal time activities, they depend on NGOs

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Where do you send the warning to? :

Union level CPP member & volunteer send the warning to community people using mega-phone. The UP use same equipment and mosque mike

- What is communication means?

Signal Flag hoisting, Cell phone, mega-phone, and Mosque mike

- How long does it take the time usually since receiving till sending?

45 minutes

- Contents of warning :

11 levels warning 6 levels warning Others:

Few words are given from cyclone MAHASEN message when the signal was 3; Dear community people, a cyclone was from in the deep Indian Ocean, it is moving northward over the same area. All fishing boat, trawler and marine vessel over North Bay and deep sea have been advised to come close to the coast. All of you are asked to keep prepared. It may cross over this area. We will update you time to time. Another call is a cyclone is coming like Aila so get prepared

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind, possible route of the cyclone and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Road communication is not good. Quick dissemination is not possible. Cell phone is main communication means at the moment. CPP cannot work in full swing due to lack of equipment. CPP needs vehicle, VHF wireless.

It is observed that cell phone network does not work smoothly sometime at the time of disaster

- Do you have communication radio in the district/ upazila/ unit? no
- How many percent does mobile phone cover in the area? 100%
- How many percent does Mosque Microphone cover in the area? 75%
- How many percent does commercial/govt. power supply cover the area? 0%

- How many percent do residents have solar power system? 30%
- How many percent do information infrastructures below cover the area?
TV Network: 100% FM Radio: 50% AM Radio: 100%
Mobile Phone: 100%
- How many percent do residents have mobile phones? 25%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.



Condition of road before rain



Condition of road after rain



7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

Rescue is the most difficult task for the local administration as well as CPP. Mainly upazila administration is responsible for rescue. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard is deployed here, they might be used to search and rescue activities. Bangladesh Boarder Guard (BGB) has strong base in Shaymnagar who participated in previous rescue work in this areas.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer. Fortunately, many international NGOs came here after cyclone Aila.

(5) Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and scrutinize by government official.

Even they survey if tornado takes place

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

After Mahasen dry food are send for people who took shelter in different places.

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. Unfortunately this is merely a false request. Where do people go? The scarcity of cyclone shelter make resident unprotected.

➤ zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The number of cyclone centre is very minimum here (only 5) compare to other coastal area. After cyclone AILA, some internal NGOs have come forward but they did not construct the cyclone centre.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not in good condition
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

People are asking to store dry food personally. During cyclone Mahasen UP did not store dry food but ask businessman not to sale. Safe drinking water is scarcer here.

Dry food collection is quite problematic in this union

(2)Current Condition of shelters

- Number of shelters : 4 Existing: (most of them are good condition)
Plan: 2
- Total capacity : 1,200 Population ratio 4 for 32000 people
- Solo use: Multi use: 100%
- Other purposes of multiuse shelter: shelter cum school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
No Idea
- Do you have obligation to record activities under state of emergency and report it?
No Idea

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad is responsible to conduct survey. They collect and send to the PIO or UNO office. The PIO aggregate the data and synthesis the information for overall report. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
Poultry					
Prawn					
Affected Mosque/Mondir					
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr, Aila or MAHASSEN
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

✓ Alert and Warning Stage:

We can alert people only but people have very little scope to take shelter.

Internal road conditions are not good and take more time to warn people

CPP cannot go in every corner of the area due bad road condition

✓ Disaster Stage

This area exist below the sea level water

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Cell phone network does not work smoothly sometime not at all at the time of disaster

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 5%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

During AILA water came into the resident by over flowing embankment. Polder cannot protect. Polder becomes weak due shrimp cultivation. Shrimp cultivator insert water by cutting or holing polder. Water came suddenly and people cannot go secured place. Their live is matter of washed away on the way to go cyclone centre.

It is our observation that people receive warning but the houses are not cyclone tolerant and it falls down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	To -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching												
2	ongoing												
3	ongoing												
4	ongoing												
5	Passing												
6	Passing												
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- ✧ Internal road communication becomes very in-accessible at rainy season. A strong man find difficulties let alone women, aged, children and disabled. The soils become very soft and lose anybodies footing. Before AILA most of the paved was washed away.
- ✧ Repair and new polder/embankment construction is first priority. UP propose 100 feet base 20 feet high and 30 feet top polder. The height of Polder should be raised and plantation is essential to make it strengthen.
- ✧ The adjacent river has been losing navigability. The river bed is increasing due to siltation. On the other hand river bank erosion is continuing. The traditional technology (a box made of bamboo filled with clay and set in the slope of river) that was very effective but due to unknown reasons it is abandoned.
- ✧ There is no meteorological/hydrological office/station in this upazila. UP chairman said that one meteorological office of India which (very close to Shaymnagar) weather forecasting is more correct than the forecasting Dhaka.
- ✧ One of interesting observation of UP is the water level of see in 1947 was lesser than now and the height of the polder was 5 feet higher than now. Both the issue goes against safe living in this area. Now this area exist below the sea level water
- ✧ The crisis of drinking water is the main disaster of this reason. People are suffering, the only source of pure drinking water is rain but harvesting of this valuable resource is not remarkable. Some NGOs install water treatment project but the quality of water is not satisfactory and not for all people.
- ✧ Some people were not interest to come to cyclone centre. They said let the cyclone worse, then we will go SC.
- ✧ Safe drinking water is scarcer here. The quality of ground water is not good. NGOs are introducing rain water collection and utilize.
- ✧ Access road to cyclone centre is very bad. It is impossible for disabled pregnant women, aged and children to SC
- ✧ UP think they will able to raise fund for maintenance if rescue board is given
- ✧ CPP warn people by megaphone, hoist signal flag and bring community people to the cyclone shelter during Mahsen.
- ✧ After Aila, severe water logging created and stayed three years. Once upon a time only polder was secured place to stay for years after Aila. No land was available to burry people. Many people migrated to other area from this union.
- ✧ Union CPP has no place or office to meeting, now they are 135 volunteer. It is not possible for them to rent an office.

Appendix 2-3
Barisal Division

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Md. Abdul Wahab Bhuyan	Deputy Commissioner	DC Office, Barguna	01720331666
Kazi Hafizur Amin	Assistant commissioner	DC Office, Barguna	01715832585
Prakas Chandra bissawas	DRRO	Disaster relief and rehabilitation office	01915106664
Hafiz ahmed	Deputy director	CPP	
Zakir hossain Miraj	Upozila team leader	CPP	01712964855

(3)Responding Date and Hour

31 / 03 / 2013 at 11.00 am

(4)Responding Place

DC office, Barguna

(5)Interviewer

Shariful Islam



Power point presentation on disaster at Barguna DC office and with DRRO

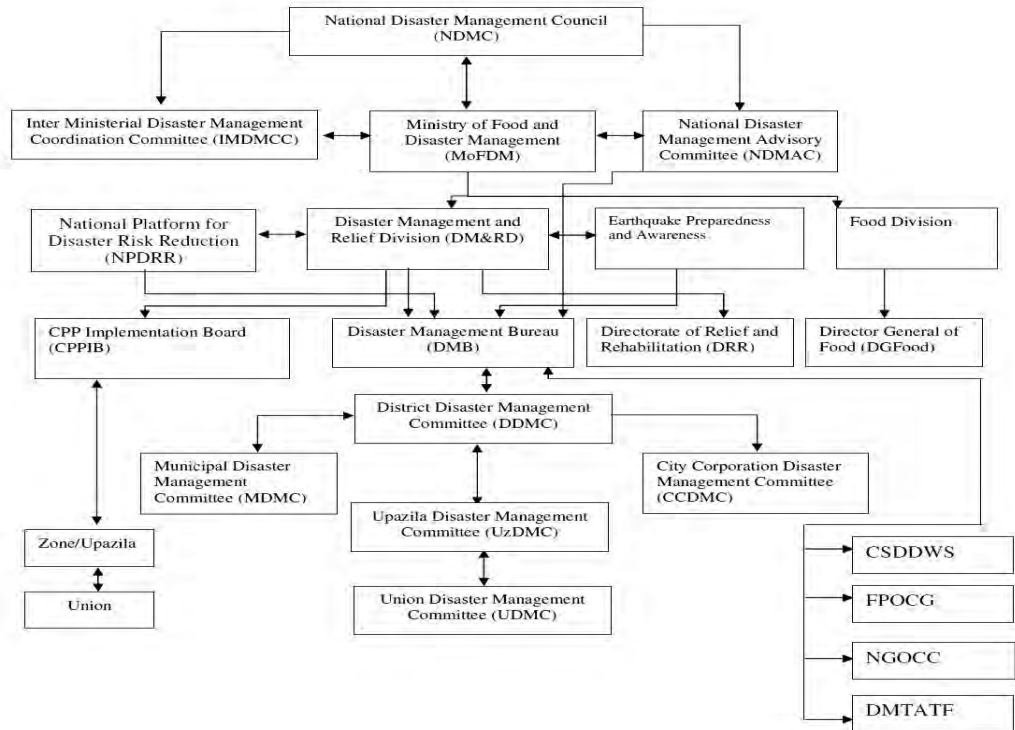
2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

DRRO Office, Barguna, Bangladesh

(2)Organization Chart

- Could you provide the latest organization chart? if any.



- Which departments/units are in charge of disaster management in the latest organization chart?
Disaster relief and rehabilitation office (DRRO)

(3)Number of Human Resources

Quorum: 16 Enrollment:32

(4)Population and Number of Household

Year: 2011 Source: Population census

Population:

Male: 437413 Female: 455368 Total: 892781 (current population 1000000)

Number of Household: 232320

(5)Area

1939.39 Square kilometer and population density 460/sq km

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Coordinates	21.50°N- 89.59° E
Upazila	6
Paurashava	4
Wards of Paurashava	36
Union	42
Village	560
Mauzas	257

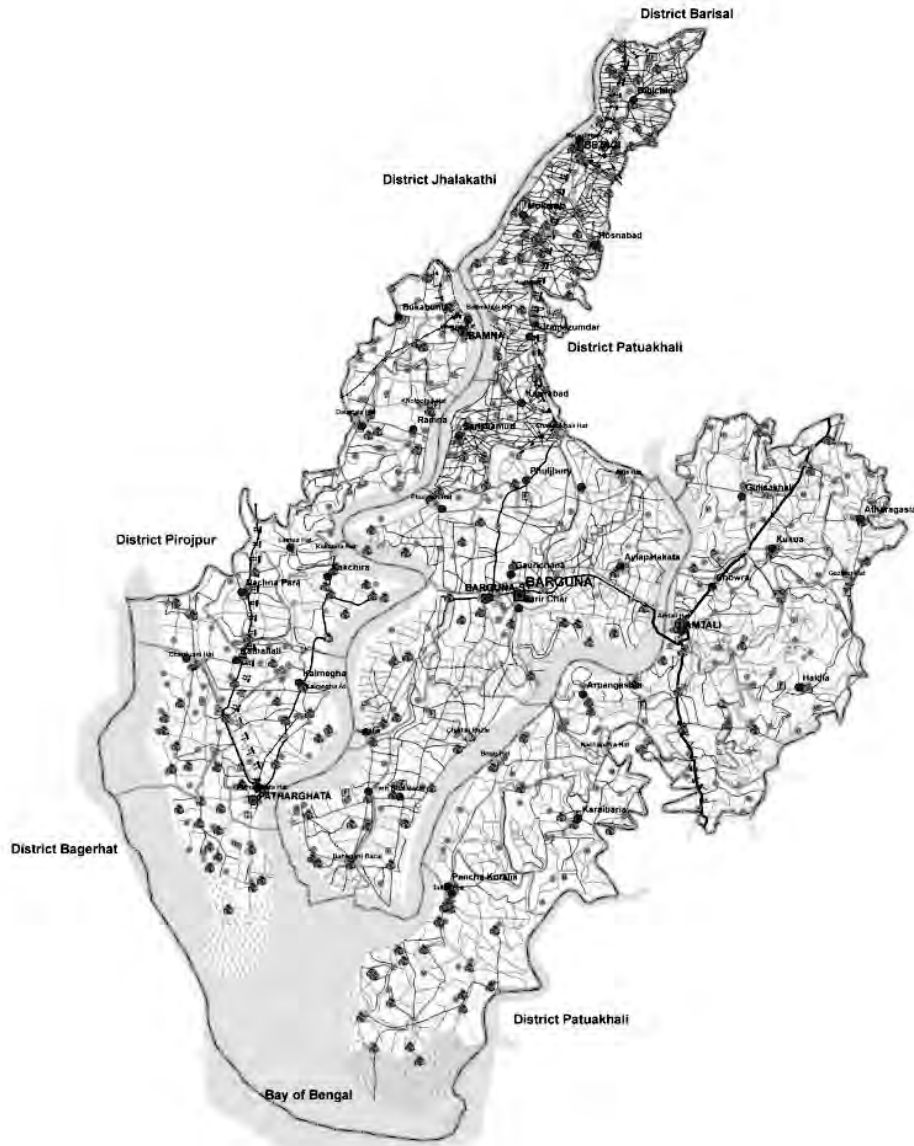
(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		In the sidr, Total crop land in Barguna district is 310605.38 acre where 37064,49 was fully damaged and 273540.89 (83%) were partially damaged
Fisheries		100%
Manufacture		
Service	5% of the total population	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of Barguna district

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No hydrologic observation station

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
no

- If yes, do you have map of these locations or can you put the locations on the map? no
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

Yes, it is really necessary to provide accurate warning. Area based observation data will be more effective. Sometimes people do not care about the warnings because people are getting used to with the wrong data.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007 and 2009	

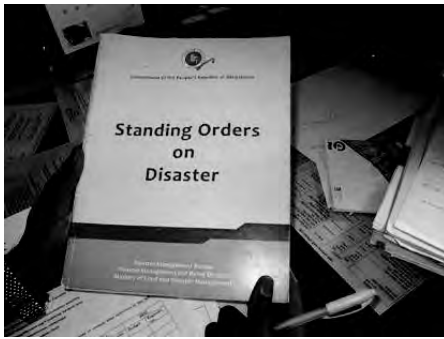


CONSULTATION AT BARGUNA DC OFFICE WHILE OFFICIALS ARE THERE



A GIFT FROM BARGUNA DC TO MY JAPANESE TEAM. WE CAN SEE THE SMILEY FACE OF YAMASHITA AND KURIHARA

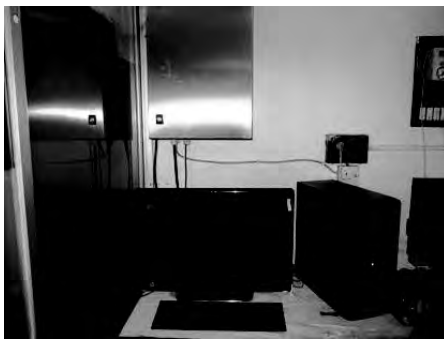
FEW HOURS WITH THE DRRO AT BARGUNA DISTRICT



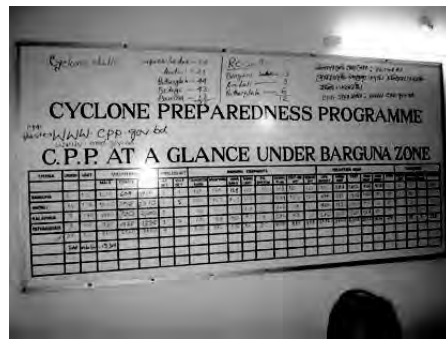
THEY ALL HAVE STANDING ORDERS ON DISASTER. BUT EXERCISE OF IT IS MINIMAL.



BARGUNA DRRO RECEIVED EARLY WARNING FROM THE DMIC, DHAKA.



CONTROL ROOM FOR THE NEW INSTALLED SYREN AND SPEAKER. MORE TRAINED STAFF NEEDED IN THIS SECTION.



BARGUNA ZILA AND UPOZILA CPP OFFICE. THEY HAVE TOTAL 1815 VOLUNTEER WORKING FOR THE BARGUNA DISTRICT. IN BARGUNA DISTRICT THEY ARE HOLDING 12 VHF AND 3 HF.



CONSULTATION WITH BARGUNA CPP LEADER, WHILE OPERATOR SHOWING SOME DAMAGED EQUIPMENTS.



5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: District Disaster management committee

G: CPP

B: Disaster Relief & Rehabilitation Office

H: NGO (SAP, Muslim aid, plan Bangladesh, RDF, sushilon etc)

C: Upozila disaster management committee

I:

D: Union Disaster management committee

J:

E: Union Parishad

K:

F: School Management committee

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District	A,B,C,D,E,G	E,G	F	C,D,E,G	A,B,,C,D,E, F,G,H	E,G	D,E,H	D,E,H	G,E,H
Upazila									
Union									
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: 6 at dc office

Part-time:

(2) Office and Equipments

Sole use office room

Equipments : 3 Desks 2 File cabinets
 1 Copy machine 4 Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- **Do you have disaster management plan?**
 Whatever government plan, they implement that. They have standing orders. Normally in district level, they follow it.
- **Planning/Reviewing/Updating disaster management plan** ..In Pirojpur district, there is a Disaster management planning committee and emergency response committee. Update of SOD done by the request of DRRO.
- **Staff training.....** They provide staff training but it decided by disaster management Bureau. Sometimes NGO's arrange training.
- **Emergency drill at district/ Upazila/ Union level.....** They are linked with the fire service and Fire service and DRRO jointly conduct the mock drill.
- **Equipment maintenance:** They have trained staff and they maintain the equipments but budget is minimal.
- **Inter organizational/Stakeholder meeting:** Once in a month, they conduct a meeting which is called zila korodhor meeting. This is mandatory.
- **Drawing/Reviewing/Updating hazard map:** They don't have any hazard map
- **Residents awareness campaign:** Yes/ twice (2) a year with coordinating with the NGO's. Normally October and November.
- **Residents evacuation drill :** Yes/ Once a year with coordinating with the NGO's

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expendit	Budget	Expenditu	Budget	Expenditu

		ure		re		re
Total						
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

It is really important to keep some budget for the disaster management. The process is so long that sometimes take quite long time to implement the project. Moreover there is not a single budget for the early warning. All budgets are for TR, EGPP and KABIKHA. But there should be a budget for training of the DMC and CPP. For the maintenance of the equipments and cyclone shelter, there is no budget.

Activities under State of Emergency

6.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

Yes they do. They have to follow.

- Please describe gaps between the SOD and actual activities? If any.

More manpower is necessary. In practical, it is impossible to maintain the SOD without the budget and more manpower. Sometimes we don't get response from the lower agency. They have problem with the coordination. Early warning exercise is minimal. As there no no budget for early warning system.

(1)Number of Human Resources

- How many staffs are mobilized? 6
- Do you have any regulations/ rules for mobilization of staffs? Yes they have

(2)Office and Equipments

- Where is emergency head quarter office set up?

Same as normal time

DC office

Others:

- Equipments :

1 Desks	1 File cabinets
1 Copy machine	1 Computers
1 UPS	Internet-yes
1 TV set	1 Radio receiver

6.5 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
Dhaka control room, Disaster management and relief ministry/ fax and land phone
- Where do you send the warning to? What is communication method?
Open emergency control room and send warning to UNO, PIO/ land phone and mobile
- How long does it take usually since receiving till sending information?
15 minutes to inform all 6 UNO of six Upazila
- Contents of warning Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?

It is ok. But if the contents were specific for the particular zila or Upazila, than the community people would be more reliable on the warning message.

- Do you have any issues and problems regarding communication method?

Communication process is too long. The warning information should send to all levels at the same time.

- Do you have communication radio in the district/ Upazila/ unit?

1 communication radio and 2 local communication radio station

- How many percent does mobile phone cover in the area?

85 %

- How many percent does Mosque Microphone cover in the area?

45%

- How many percent does commercial power supply cover the area?

35%

- How many percent do residents have solar power system?

2%

- How many percent do residents have mobile phones?

75%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Disaster management and relief ministry

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

Follow SOD

(2)Shelter Management

Management committee in different levels like school management committee, madrasha management committee and NGO's

(3)Rescue and Search

Follow SOD's rules and regulations. Red cross, Red Crescent, CPP plays an important role during rescue and search time.

(4)Sufferer Help

Jointly upozila porishad, Union parishad, unit team leader, CPP help the sufferer during the disaster time.

(5)Damage Survey

Union and CPP jointly conduct the damage survey in the community level. But Union parish is bound to conduct the survey and report to upozila office. Then upozila office compile all the records and send to DC office

(6)Other

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget: 200000

Expenditure:

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below

District disaster management committee has the plan for the zoning for each evacuation shelter, evacuation route, shelter capacity and storage of food and water. But main problem is the budget. After the disaster they receive the budget but if they could get some budget during the normal activities, then they could manage the following items more clearly.

- zoning for each evacuation shelter
- evacuation route
- shelter capacity
- storage of food and water, and so on

(2)Current Condition of shelters

- Number of shelters : Existing: 234 Plan: 550 proposed
- Total capacity : 87994 Population ratio 4%
- Solo use: 3 Multi use: 234
- Other purposes of multiuse shelter: School and madrasha, Union parishad office etc.
- Do you think the shelters have enough height for tidal wave/ flood? Not all

(3)Operation / Management

- Owner: School Management committee
- Operation/ Management:
School Management committee

- Cost burden

There is no fund for managing the cyclone shelter. School management committee sometimes collects the fund from the community people.

(4) Shelter Management Manual

- Do you have a shelter management manual?

No

Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it?

Once a year

- Do you have obligation to record activities under state of emergency and report it?

To the Disaster ministry.

(6) Damage Records

- Do you have obligation to survey disaster damage and report it? yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing		Govt is trying to reduce the dead tools and trying to avoid the missing categories.
	Injured	Union parishad,	
	Evacuees	Union parishad	
Private Sector	Building	LGED/union parishad	
	Agriculture	Agriculture department	
	Fisheries	Fisheries department	
	Manufacture	Union parishad	
Public Sector	Road, Bridge	LGED/union parishad	
	Dike	LGED/union parishad	
	Public Utilities	Utilities department	
Generalization, Statistics			

8. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone	Cyclone			
Type	Sidr	Aila			
Start Date	15/05/2007	25.05.2009			
End Date	15/05/2007	25.05.2009			
Maximum Wind Velocity	240 km/hour	92 km/hour			
Highest Sea Level	20 feet	4.6 feet			
Total Rainfall					
Dead Missing	1345 156	05			
Injured	16,309	Affected people- 284079			
Total Collapse Houses	77,754				
Half Collapse Houses	1,12,031				
Total Collapse Dike	18 which is 1797.4 km long				
Half Collapse Dike					
Inundation Area	85%				
Inundation Depth	15-20 feet				
Agriculture Damage	310605.38 acre agriculture land				
Fisheries Damage	100%				
Economic Losses					
Others					

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: sidr
- Record of activities including time series, if any. recorded
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normally in the month of October and November, with coordination with the NGO's DRRO conduct two awareness programmes in the community level. They are normally used to with the disaster related issues. So Normal times DRRO conduct a meeting with the upozila and union disaster management committee. Every month DRRO conduct this meeting.

✓ Alert and Warning Stage: Before the SIDR people were not serious about the warning. But community people are more serious about the warning. At this stage DRRO normally open a control room and keep contact with the upozila disaster management committee.

✓ Disaster Stage: As the network completely broke down during the disaster time, It is really hard to keep contact with the upozila. In the District level, they don't have enough vehicles, other warning equipments to keep contact with the community.

✓ Rehabilitation Stage: At this stage all local government departments, NGO's and CPP work together.

- How many percent of residents did evacuate to shelters?

15 %

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason: People didn't want to evacuate during the last sidr. But after the sidr, people care about the warning. The problem is, not much cyclone shelter to evacuate them.

)

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	10.00 am	Received	Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	DRRO	1-3	Notice	Fax		cautionary warning	Called meeting	
2	Passing	15.11.2007	10.15	Send	DRRO	Upozila Office (uno)	1-3	Notice	Phone	Fax	cautionary verbal warning	Inform Upozila Disaster management committee	
3	Approaching	15.11.2007	12.00 to 4.30	Received	Stroam warning centre	Upozila Office (uno)	4-7	recommendation	phone	fax	Warning level and to prepare to move for shelter	Called emergency meeting and inform all government agencies and CPP	Not many shelters to accommodate and people didn't rely on warning
4	Passing	15.11.2007	12.00 to 4.30	send	DRRO	Upozila disaster management committee and UNO	4-7	recommendation	phone	Fax	Warning level and to prepare to move for	Inform all union chairmen and CPP	Not much shelter and warning

5	On going	15.11.2 007	6.00 pm	Receiv ed	DRRO	Upozila level	8-10	Order	phone	To evacuate and come to cyclone shelters	Annou nced over Mega Phone	equip ments
6	Passing	15.11.2 007	4.00 pm to 5.00 pm	send	Upozila disaster management committee and UNO	Union chairman and union disaster managemen t committee	4-7	Order	Phone and face to face	Warning level and to prepare to move for shelter	Informe d CPP team leaders	Not much shelter and warnin g equip ments
5	Passing	15.11.2 007	5 pm to 9 pm	send	Upozila disaster management committee and UNO	Union chairman and union disaster managemen t committee	7,8,9,10	order	phone			No mobile networ k and comm unicati on lost
6												

10. Others

Please describe other issues and problems or important information.

However, Barguna is also exposed to other natural hazards, such as:

- Floods
- River bank erosion
- Droughts
- Tornadoes
- Cold waves
- Earthquakes
- Drainage congestion/water logging
- Arsenic contamination
- Salinity intrusion etc.

Dead toll in the 2007 sidr

SL No	Name of the Upazilla	Death Toll	Affected family
1	Barguna Sadar	604	509
2	Amtali	297	205
3	Patharghata	349	271
4	Bamna	50	45
5	Betagi	35	32
Total		1335	1062

Major cyclone hit in Barguna District

Year	Maximum Wind speed (km/hr)	Storm Surge height (metres)	
1965	161	3.7-7.6	

1966	139	6.0-6.7
1970	224	6.0-10.0
1985	154	3.0-4.6
1991	225	6.0-7.6
1997	232	4.6
2007	240	15-20
2009	92	--

Aila Damage in coastal district:

Sl. No.	District	No. Affected Upazilla	Total No. of Affected People	No. Injured of	Total No. Death
01.	Barisal	10	292105	121	11
02.	Bhola	07	584970	201	18
03.	Pirojpur	07	248470		01
04.	Patuakhali	07	615785	610	08
05.	Khulna	06	546630	543	57
06	Bagerhat	05	497036		4
07.	Satkhira	07	563783	5357	59
08.	Chittagong	03	13630	10	01
09.	Laximpur	04	17071	06	07

10	Noakhali	03	1163071	255	24
11	Barguna	05	284079		-
Total	11 district	64	4826630	7103	190

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Md. Mustafizur Rahman	UNO	Barguna Sadar Upozila	01711235628
Ranjit kumar Sarkar	PIO	Barguna Sadar Upozila	01728467627
Md. Sirajul Haque	Assistant PIO	Barguna Sadar Upozila	01715347963

(3)Responding Date and Hour

01 / 04 / 2013 at 10.00 am

(4)Responding Place

Barguna sadar upozila parishad

(5)Interviewer

Shariful Islam



2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

Barguna Sadar Upozila

(2)Organization Chart

- Could you provide the latest organization chart? if any. No
Upozila disaster management committee-secretary (PIO)- union disaster management committee-community people
- Which departments/units are in charge of disaster management in the latest organization chart?
PIO and Upozila disaster management committee



Meeting with CPP, Barguna sadar upozila

Number of Human Resources

Quorum: 48

Enrollment:

(3)Population and Number of Household

Year: 2013 Source: Upozila parishad

Population:

Male:128580

Female: 132763 Total:261343

Number of Household:

(4)Area

81866 acre

(5)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		10	
Number of Gram		180	
Number of Para			
Number of Polder		1	

(6)Outline of Industry

- Population by industry

4. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: NGO

B: Disaster Relief & Rehabilitation Office H:

C: Upozila Disaster management committee

I:

D: Union Disaster management committee

J:

E: CPP

K:

F: School, Madrasa Management Committee

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	C, D, E	D, E	C, D, F	D, E	C, D, E, G	D, E	C, D, E, F, G	C, D, E, F, G	C, D, E
Union									
Gram									
Para									
Individual									
CPP									

5. Normal Time Activities

5.1 Structural Framework

(1) Number of Human Resources

Full-time: 2

Part-time:

(2) Office and Equipments

Sole use office room

Equipments : 2 Desks 1 File cabinets
 Copy machine 1 Computers

5.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?
Follow SOD and conduct 2 meetings each year
- Planning/Reviewing/Updating disaster management plan
No
- Staff training
Project based training
- Emergency drill at district/ Upazila/ Union level
Once a year in each school and colleges
- Equipment maintenance
No budget for the maintenance
- Inter organizational/Stakeholder meeting
Once in a month with the district and union level
- Drawing/Reviewing/Updating hazard map
No hazard map.
- Residents awareness campaign
Once a year
- Residents evacuation drill
No

5.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure

Total						
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

All budgets are for KABIKHA, EGPP TR. These are mainly spend for constructing road, bridges and culverts. There is no budget for early warning.

Activities under State of Emergency

5.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

Yes

- Please describe gaps between the SOD and actual activities? If any.

To follow the SOD completely, more staffs are necessary

(1)Number of Human Resources

- How many staffs are mobilized?0
- Do you have any regulations/ rules for mobilization of staffs? Only disaster time staffs are mobilised

(2)Office and Equipments

- Where is emergency head quarter office set up?

Same as normal time

DC/ UNO/ PIO office

Others:

- Equipments :

1 Desks	1 File cabinets
Copy machine	1 Computers
0 UPS	Internet
0 TV set	0 Radio receiver

5.5 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
DRRO/Phone

- Where do you send the warning to? What is communication method?
Union Chairman and union disaster management committee/phone

- How long does it take usually since receiving till sending information?

12 minutes

- Contents of warning : Which warning signal levels do you use?

10 Levels

- Do you have any issues and problems regarding warning contents?

No

- Do you have any issues and problems regarding communication method?

Network is down during the disaster time

- Do you have communication radio in the district/ upazila/ unit?

They don't have any communication radio in upozila parishad. There is one community radio station in barguna sadar which can inform warning information upto 20square km.

- How many percent does Mosque Microphone cover in the area?

40%

- How many percent does commercial power supply cover the area?

50%

- How many percent do residents have solar power system?

30%

- How many percent do mobile phone network cover the area?

100%

- How many percent do residents have mobile phones?

90%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

DRRO (District level)

5.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance:

DMC: they follow SOD

CPP: when the signal 4 start, they start to evacuate the community

(2)Shelter Management

DMC: no

CPP: no

(3)Rescue and Search

DMC and CPP: DMC and CPP jointly conduct the rescue and search

(4)Sufferer Help

DMC and CPP: DMC and CPP and private organisations jointly help the sufferer

(5) Damage Survey: union parishad and CPP conduct the survey

(6) Other

5.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget: 0

Expenditure: 0

6. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

yes

- zoning for each evacuation shelter : yes
- evacuation route: yes
- shelter capacity: don't have enough capacity
- storage of food and water, and so on: no

(2) Current Condition of shelters

- Number of shelters : Existing: 75 Plan:
- Total capacity : 22,500 Population ratio 8.60%
- Solo use: 14 Multi use: 53
- Other purposes of multiuse shelter: school and madrasha
- Do you think the shelters have enough height for tidal wave/ flood? Some of the shelters don't have enough height

(3) Operation / Management

- Owner
School and madrasha management committee.
- Operation/ Management
School and madrasha management committee. Some of the cyclone shelter is managed by the community people and NGO's.
- Cost burden:

There is no budget for maintaining the cyclone shelter

(4) Shelter Management Manual

- Do you have a shelter management manual?
no

7. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
Yes, once a month PIO have to report
- Do you have obligation to record activities under state of emergency and report it?
Yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
All union chairman's bound to report PIO and Upazila will compile the report and send it to DC office.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Union parishad and CPP	
	Injured	Union parishad and CPP	
	Evacuees	Union parishad and CPP	
Private Sector	Building	Union parishad and CPP	
	Agriculture	Union parishad and CPP	
	Fisheries	Union parishad and CPP	
	Manufacture	Union parishad and CPP	
Public Sector	Road, Bridge	Union parishad and CPP	
	Dike	Union parishad	
	Public Utilities	Union parishad	
Generalization, Statistics		Union parishad	

8. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone	Cyclone			
Type	Sidr	Aila			
Start Date	15.11.2007	25.04.2009			
End Date	15.11.2007	25.04.2009			
Maximum Wind Velocity	90km/hour				
Highest Sea Level					
Total Rainfall					
Dead Missing	595				
Injured	2050	5			
Total Collapse Houses	50,250	2086			
Half Collapse Houses	24,000	11,993			
Total Collapse Dike	160 km embankment were destroyed. Damage amount is 216000000	13.1 km embankment was totally destroyed			
Half Collapse Dike		17.50 km embankment			
Inundation Area	70%				
Inundation Depth	16 feet				
Agriculture Damage	80%	7000 acre of land amount to 2054000 taka			
Fisheries Damage	95%	8000000			
Economic Losses					
Others					

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Upozila and CPP: In normal times upozila parishad and disaster management committee conduct meeting with CPP and different NGO's. Most of the times NGO's arrange the meeting and cost is given by NGO's.

✓ Alert and Warning Stage:

At this stage upozila parishad, UNO, PIO and CPP work together to inform the community people.

✓ Disaster Stage

All government agencies, NGO's and CPP work together during the disaster stage

✓ Rehabilitation Stage

At this stage, all government agencies, NGO's and CPP work together.

- How many percent of residents did evacuate to shelters?

5%

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason: Nobody expect that the cyclone will attack this hard. Moreover it wasn't possible to deliver the warning to all corners of the

upozila due to lack of equipments.

)

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	10.00 am	Received	DRRO	Union level	1-3	Notice	Phone		cautionary verbal warning	Called meeting	
2	Passing	15.11.2007	11.00	Send	UNO (upozila)	Union level	1-3	Notice	Phone		cautionary verbal warning	Inform Union leaders	
3	Approaching	15.11.2007	12.00 to 4.30	Received	DRRO	Union level	4-7	recommendation	phone	fax	Warning level and to prepare to move for shelter	Called emergency meeting and inform all government agencies and CPP	Not many shelters to accommodate
4	Passing	15.11.2007	12.00 to 4.30	send	UNO and UDMC	Unit level	4-7	recommendation	phone		Warning level and to prepare to move for shelter	Inform all ward members and CPP unit leaders	Not much shelter and warning equipments

5	On going	15.11.2 007	6.00 pm	Received	DRRO	Union level	8-9	Order	phone		To evacuate and come to cyclone shelters	Annou nced over Mega Phone	No comm unicati on with Majher char
6	Passing	15.11.2 007	4.00 pm to 8.00 pm	send	Ward leader	Unit level	4-10	Order	Phone and face to face		Heavy rain	Informe d team leaders	Mobile networ k gone down and everyb ody trying to save their life

10. Others

Please describe other issues and problems or important information.

- More early warning equipments is necessary in order to inform all community people
- Drinking water facilities and sanitation facilities is not available in ant cyclone shelter
- Special consideration should be given to the isolated areas in barguna sadar
- Fishermen don't receive signal over 150 km

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Md.Sahjahan miah	Chairman	Badarkhali union	01745372804
Md. Jalal Ahmed	Secretary	Badarkhali union	01712930864

(3)Responding Date and Hour

03 / 04 / 2013 at 3.00 pm

(4)Responding Place

Badarkhali union parishad

Interviewer

Shariful Islam



Team B is collecting Local government information from Badarkhali Union Chairman

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

Badarkhali Union Parishad , Barguna sadar, Barguna

(2) Organization Chart

- **Could you provide the latest organization chart? if any.** No chart available
- **Which departments/units are in charge of disaster management in the latest organization chart?**

UP chairman, Secretary, 12 ward members, 10 village police, union disaster management committee, CPP

(3) Number of Human Resources

Quorum: 14

Enrollment: 39

(4) Population and Number of Household

Year: 2011 Source: Union parishad record

Population:

Male: 15,500 Female: 14,500 Total: 30,000

Number of Household: 4542

(5) Area

18.15 Square kilometer

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			8
Number of Para			14
Number of Polder			1

(7) Outline of Industry

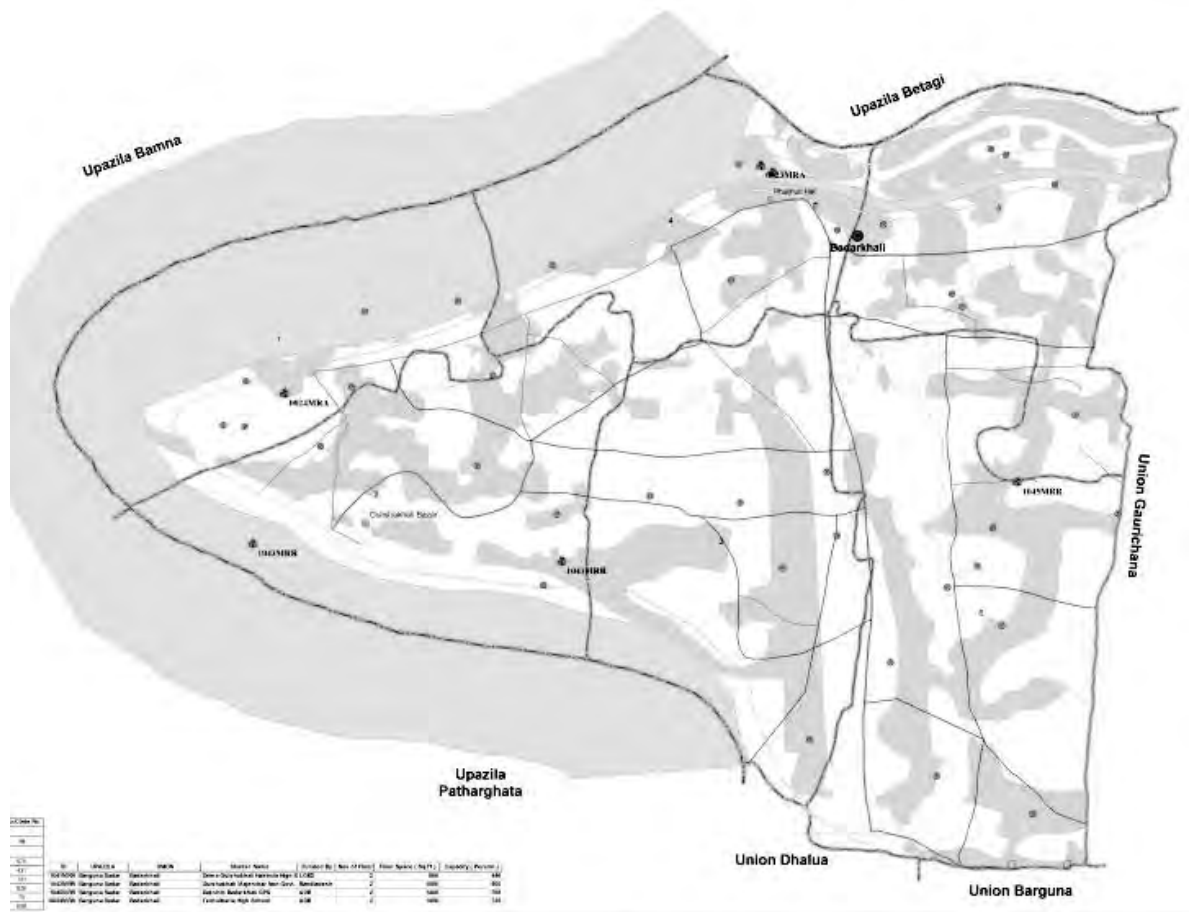
- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		After the sidr, farmers were mainly dependent on the relief. During the disaster time 60% of agricultural land was washed away and the land was unable to use more than 1 year due to saline water.
Fisheries	60% of the total	

	population	Most of the population's main income source in Badarkhali union was fishing. Lots of fishermen died during the disaster time as they haven't got any warning. Radio signal was weak as well. Most of the fishermen go to the deep sea for the fishing, which is more than 350 k.m. But they haven't received any signal during the sidr time. During the meeting with the fishermen, it was found that in their boat, there is no receiver. They only carry portable radios.
Manufacture		
Service	2% of the total population	Specially school teachers suffered a lot during the disaster time as most of the schools were under water.

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of Badarkhali union

3. Meteorological/ Hydrologic Observation Station

- **Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.**

There is no meteorological observation station here

Rainfall:

Wind:

River level:

Sea level:

- **Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?**

no

- If yes, do you have map of these locations or can you put the locations on the map?

- **Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?**

It is really important to provide correct information to the community people. it happened in the 2007's sidr that the warning reach to the community at the end and some of the community never heard the warning.



Residential questionnaire fill up by the Sharif, Rakib and Jahurul

Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007 and 2009	Dead-162, Injured-780, total collapse house-4500

4. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: District Disaster management committee G: Madrasa Management Committee

B: Disaster Relief & Rehabilitation Office H:

C: Union Disaster management committee

I: NGO (Red Crescent, Naba jibon)

D: Unit Disaster management committee

J:

E: CPP

K:

F: School Management Committee

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,E	C,E	E,F,G	C,D,I	C,D,E,G,I	C,I	C,I	C,I	E,C,D
Gram									
Para									
Individual									
CPP									



Consultation with the Fishermen, Badarkhali union, Barguna Sadar

- Residents evacuation drill: no

5.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management	20,000	20,000	25,000	25,000	35,000	35,000
Early Warning	0	0	0	0	0	0

- **Please describe the allocation policy and priority of the budget. If any.**

Normally this budget are for Kabikha, Test Relief (TR) and EGPP (Employment generation programme for the poorest). They provide GR cash GR rice in order to construction of bridge (not more than 31 feet), culvert, road etc.

6. Activities under State of Emergency

6.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

No idea about SOD

- Please describe gaps between the SOD and actual activities? If any.



Activities of Union disaster management committee

(1) Number of Human Resources

- How many staffs are mobilized? 0
- Do you have any regulations/ rules for mobilization of staffs? no

(2) Office and Equipments

- Where is emergency head quarter office set up?
 Same as normal time UP office
 Others:
- Equipments : 1 Desks 1 File cabinets
 Copy machine 1 Computers
 UPS Internet-no
 TV set 0 Radio receiver

6.2 Warning

(1) Warning

- Where do you receive the warning form? What is communication method?
UP Office: receive the warning from Chairman, Barguna sadar upozila by phone
CPP: Receive warning from Upozila CPP office by phone
- Where do you send the warning to? What is communication method?
UP Office: send to unit leader and unit CPP leader by phone
CPP: send to village CPP leader by phone
- How long does it take usually since receiving till sending information?
 10 minutes

- Contents of warning : Which warning signal levels do you use?

10 Levels

- Do you have any issues and problems regarding warning contents?
Sometimes warning is not correct. Due to the incorrect information, sometimes people don't care about the contents of warning.

- Do you have any issues and problems regarding communication method?
If the mobile network gone, than it is really hard to pass the information to the unit leaders.

- Do you have communication radio in the district/ upazila/ unit?



- How many percent does mobile phone cover in the area?

90%

- How many percent does Mosque Microphone cover in the area?

40%

- How many percent does commercial power supply cover the area?

1 %

- How many percent do residents have solar power system?

5 %

- How many percent do residents have mobile phones?

85 %

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
UNO. Union chairman normally get warning information's from the UNO and CPP upozila leader.

6.3 The Other Activities

Could you explain regarding activities below? If any.

Evacuation Guidance

CPP: During the disaster time CPP members call a meeting and try to work with other organizations like UP and Red Crescent.

UDMC: During the disaster time all local government organizations, NGO's, CPP, school management committee work together. They call an emergency meeting and plan for the evacuation. But most of the people, government agencies and CPP don't have enough training.

(1) Shelter Management:

CPP: Only the disaster time CPP coordinates with the school/ madrasha management committee to manage the cyclone shelter.

School Management committee: Normally school management committees manage the shelter. But they don't have any extra budget for that. They also don't have any equipment in the school cum cyclone shelter. Rescue and Search

(2) Sufferer Help: Disaster time upozila disaster management committee, union disaster management committee, CPP, red-crescent, and different NGO's work together to help the sufferer.

(3) Damage Survey: CPP and Union parishad jointly conduct the damage survey.

(4) Other

6.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget: 25000

Expenditure:

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - **zoning for each evacuation shelter** : When any new cyclone shelter is constructed by the government (LGED),NGO's, Personal donation or by any donor agencies (JICA, UNDP) etc, local government do the zoning for each evacuation shelter. But due to lack of cyclone shelter considering the population, zoning system don't work all the time.
 - **evacuation route**: Most of the cyclone shelter's connecting route's condition is really poor. Mainly during the disaster time it is really hard to use the connecting road to the cyclone shelter.
 - **shelter capacity**: For 30000 people there are only 5 cyclone shelter in Naltona union. It is really urgent to construct few more cyclone shelter in this union. We have visited few primary school, which are possible to use as a cyclone shelter with reconstruction work.
 - **storage of food and water, and so on** : School and madrasha normally used for the storage of cyclone shelter.

(2)Current Condition of shelters

- Number of shelters : Existing: 5 Plan:0
- Total capacity : 2100 Population ratio: 7 %
- Solo use: Multi use: 5
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood? yes

(3)Operation / Management

- **Owner**: School and Madrasha management committee
- **Operation/ Management** :
School head teacher and school management committee. During the disaster time CPP and Union Parishad also manage the shelter.
- **Cost burden** : School management committee but they don't have any additional budget for managing the shelter.

(4)Shelter Management Manual

- **Do you have a shelter management manual?** No

Records

(5)Record of Activities

- Do you have obligation to record normal time activities and report it?
No
- **Do you have obligation to record activities under state of emergency and report it?** Yes. During the emergency time Union leaders and CPP is bound to report to the upper agency

(6)Damage Records

- **Do you have obligation to survey disaster damage and report it?** Union parished is bound to survey and report to the UNO.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP,	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics		UP, UNO	

8. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone	Cyclone			
Type	Sydr	Aila			
Start Date	15.11.2007	25.05.2009			
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity	230 km/hour	90km/hour			
Highest Sea Level	25 feet	4 feet			
Total Rainfall					
Dead Missing	162				
Injured	780	2			
Total Collapse Houses	4500	390			
Half Collapse Houses	5480	1825			
Total Collapse Dike	24	0.8 km embankment were damaged			
Half Collapse Dike					
Inundation Area	80%				
Inundation Depth					
Agriculture Damage	60%	1000 acre land (20,50000 taka)			
Fisheries Damage	90%	440 ponds were damaged			
Economic Losses					
Others					

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- **Name of the cyclone:** Sidr
- **Record of activities including time series, if any.** no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ **Normal Times:**

CPP: They don't have any record with them. But around 10 am on 15/11/2007 they have called a urgent meeting with the all CPP leaders.

Problems: CPP don't have sufficient equipments to conduct their job without any obstacle. CPP members training are also necessary.

UDMC: Union disaster management committee and union parishad called a urgent meeting and discussed what to do. The meeting was held around 11.30 am on 15.11.2007



Roles of union disaster management committee during the disaster time

✓ **Alert and Warning Stage:**

CPP: from 2.00 pm on 15.11.2007 they have started to warn the community people. But from 7.00 pm, when the rain started hard, CPP members stop warn the community people as they didn't have any rain coat.

UDMC: Due to lack of equipment, UDMC can't inform the all community level people about the upcoming disaster on 15.11.2007

✓ **Disaster Stage:**

CPP and UDMC: 8.00 pm (15.11.2007) to 6 am (16.11.2007) CPP and UDMC

was unable to help the affected people as there were no roads left for using.

✓ **Rehabilitation Stage:** 6.00 am (16/11/2007) to 6.00 am (17/11/2007), all government agencies, NGO,s CPP worked together.

• How many percent of residents did evacuate to shelters?

10 %

• What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason:

)

During the sird time, people didn't take the warning seriously. Some religious matter worked here as well. Women don't like to go to the cyclone shelter, as there are no separate rooms for the women.

There are also problems with the warning contents. What the contents saying is not similar with the practical situation. That's why people sometimes don't rely on the warning.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	9.00 am	Received	PIO, Upozilla	Union Parishad	1-3	Notice	Phone		cautionary verbal warning		
2	Ongoing	15.11.2007	10:00 am to 5 pm	Received	PIO	Union Parishad	4-7	Order	Phone		To prepare to come to shelters	Inform d ward/Unit level, called meeting with team members	Volunteer had to walk to unit leader
3	Passing	15.11.2007	10.30 am-to 5.00 pm	Send	Union parishad	Unit/Ward level	4-7	order	Phone		To evacuate and come to cyclone centers	Announced over Mega Phone	No communication with Majher char
4	Passing	15.11.2007	10.30 am-to 6.00 pm	send	Ward leader	Community people/residents	4-10	Order	Phone and face to face		Heavy rain	Inform d team leaders to prepare for the worst case	no
5													

6

10. Others

Please describe other issues and problems or important information.

- Considering the population, more cyclone shelter is necessary
- Connecting road to the cyclone shelter is necessary
- Early warning equipments is necessary
- The facilities in cyclone shelter should increased.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md.Safiquzzaman	Chairman	Naltona Union	01730161195
Md. Khalilur Rahman	Secretary	Naltona Union	01726120606
Mrs Mamtaz begum	member	Union disaster management committee	01731257271
Lutfur Rahman	Member	Union disaster management committee	01748469404

(3) Responding Date and Hour

02 / 04 / 2013 at 3.00 pm

(4) Responding Place

Naltona Union parishad office

(5) Interviewer

Shariful Islam



Meeting with Md. Safiquzzaman, Chairman, Naltona union

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Naltona Union Parishad , Barguna sadar, Barguna

(2) Organization Chart

- **Could you provide the latest organization chart? if any.** No chart available
- **Which departments/units are in charge of disaster management in the latest organization chart?**

UP chairman, Secretary, 12 ward members, 10 village police, union disaster management committee, CPP

(3) Number of Human Resources

Quorum: 15

Enrollment: 42

(4) Population and Number of Household

Year: 2011 Source: Union parishad record

Population:

Male: 18,000 Female: 22,000 Total: 40,000

Number of Household: 7500

(5) Area

17 Square kilometer

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			14
Number of Para			
Number of Polder			1 (polder no 42)

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	6,000 approx.	After the sidr, farmers were mainly dependent on the relief. During the disaster time 8000 acre of agricultural land was washed away and the land was unable to use more than 2 and half years due to saline water.
Fisheries	22,000 approx	Most of the population's main income source in Naltona union was fishing. Lots of fishermen died

		during the disaster time as they haven't got any warning. Radio signal was weak as well. Most of the fishermen go to the deep sea for the fishing, which is more than 250 k.m. But they haven't received any signal during the sidr time. During the meeting with the fishermen, it was found that in their boat, there is no receiver. They only carry portable radios.
Manufacture		
Service	3% of the total population	Specially school teachers suffered a lot during the disaster time as most of the schools were under water.

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of naltona union

3. Meteorological/ Hydrologic Observation Station

- **Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.**

There is no meteorological observation station here

Rainfall:

Wind:

River level:

Sea level:

- **Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?**

no

- If yes, do you have map of these locations or can you put the locations on the map?

- **Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?**

It is really important to provide correct information to the community people. it

happened in the 2007's sidr that the warning reach to the community at the end and some of the community never heard the warning.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007 and 2009	More than 400 people died and 700 were missing

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: District Disaster management committee G: Madrasa Management Committee

B: Disaster Relief & Rehabilitation Office H:

C: Union Disaster management committee

I: NGO (Red Crescent, Naba jibon)

D: Unit Disaster management committee

J:

E: CPP

K:

F: School Management Committee

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,E	C,E	E,F,G	C,D,I	C,D,E,G,I	C,I	C,I	C,I	E,C,D
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: 25 Part-time: 0

(2) Office and Equipments

Sole use office room

Equipments : 2 Desks 1 File cabinets
 Copy machine 1 Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? No
- Planning/Reviewing/Updating disaster management plan: No
- Staff training: No
- Emergency drill at district/ Upazila/ Union level: No
- Equipment maintenance: No
- Inter organizational/Stakeholder meeting: Once a month
- Drawing/Reviewing/Updating hazard map: Save the children update the hazard map
- Residents awareness campaign: no
- Residents evacuation drill: no

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	58,44,900	58,59,00	52,08,000	51,58,000	74,34,214	73,74,214
Disaster Management	20,000	20,000	25,000	25,000	35,000	35,000
Early Warning	0	0	0	0	0	0

- **Please describe the allocation policy and priority of the budget. If any.**

Normally this budget are for Kabikha, Test Relief (TR) and EGPP

(Employment generation programme for the poorest). They provide GR cash GR rice in order to construction of bridge (not more than 31 feet), culvert, road etc.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

No idea about SOD

- Please describe gaps between the SOD and actual activities? If any.

(1)Number of Human Resources

- How many staffs are mobilized? 0
- Do you have any regulations/ rules for mobilization of staffs? no

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time UP office
Others:
- Equipments : 4 Desks 2 File cabinets
 Copy machine 1 Computers
 UPS Internet
 TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
UP Office: receive the warning from Chairman, Barguna sadar upozila by phone
CPP: Receive warning from Upozila CPP office by phone
- Where do you send the warning to? What is communication method?
UP Office: send to unit leader and unit CPP leader by phone
CPP: send to village CPP leader by phone
- How long does it take usually since receiving till sending information?
5-6 minutes

- Contents of warning : Which warning signal levels do you use?

10 Levels

- Do you have any issues and problems regarding warning contents?
Sometimes warning is not correct. Due to the incorrect information, sometimes people don't care about the contents of warning.

- Do you have any issues and problems regarding communication method?
If the mobile network gone, than it is really hard to pass the information to the unit leaders.

- Do you have communication radio in the district/ upazila/ unit?

no

- How many percent does mobile phone cover in the area?

75 %

- How many percent does Mosque Microphone cover in the area?

39 %

- How many percent does commercial power supply cover the area?

3 %

- How many percent do residents have solar power system?

7 %

- How many percent do residents have mobile phones?

45 %

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

UNO, PIO and upozila office

7.3 The Other Activities

Could you explain regarding activities below? If any.



Residential questionnaire fill up by Mr. Rakib

Evacuation Guidance

CPP: During the disaster time CPP members call a meeting and try to work with other organizations like UP and Red Crescent.

UDMC: During the disaster time all local government organizations, NGO's, CPP, school management committee work together. They call an emergency meeting and plan for the evacuation. But most of the people, government agencies and CPP don't have enough training.

(1) Shelter Management:

CPP: Only the disaster time CPP coordinates with the school/ madrasha management committee to manage the cyclone shelter.

School Management committee: Normally school management committees manage the shelter. But they don't have any extra budget for that. They also don't have any equipment in the school cum cyclone shelter. Rescue and Search

<p>JICA constructed cyclone shelter</p>	<p>Madrasha cum cyclone shelter</p>	<p>Re-constructed madrasha cum cyclone shelter</p>

(2) Sufferer Help: Disaster time upozila disaster management committee, union disaster management committee, CPP, red-crescent, and different NGO's work together to help the sufferer.

(2)Current Condition of shelters

- Number of shelters : Existing: 6 Plan:0
- Total capacity : 3000 Population ratio: 8 %
- Solo use:2 Multi use: 4
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood? yes

(3)Operation / Management

- **Owner:** School and Madrasha management committee
- **Operation/ Management :**
School head teacher and school management committee. During the disaster time CPP and Union Parishad also manage the shelter.
- **Cost burden :** School management committee but they don't have any additional budget for managing the shelter.

(4)Shelter Management Manual

- **Do you have a shelter management manual? No**

Records

(5)Record of Activities

- Do you have obligation to record normal time activities and report it?
No
- **Do you have obligation to record activities under state of emergency and report it?** Yes. During the emergency time Union leaders and CPP is bound to report to the upper agency

(6)Damage Records

- **Do you have obligation to survey disaster damage and report it?** Union parished is bound to survey and report to the UNO.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP,	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics		UP, UNO	

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone	Cyclone			
Type	Sydr	Aila			
Start Date	15.11.2007	25.05.2009			
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity	270 km/hour	92km/hour			
Highest Sea Level	25 feet	4 feet			
Total Rainfall					
Dead Missing	400 32				
Injured	5000	1			
Total Collapse Houses	3000	310			
Half Collapse Houses	1500	1620			
Total Collapse Dike	9	1.5 km embankment damage			
Half Collapse Dike	12				
Inundation Area	100%				
Inundation Depth	18 feet				
Agriculture Damage	100% (8000 acre)	1000 acre of agricultural land (2000000 taka)			
Fisheries Damage	100%				
Economic Losses					
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- **Name of the cyclone:** Sidr
- **Record of activities including time series, if any.** no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ **Normal Times:**

CPP: They don't have any record with them. But around 10 am on 15/11/2007 they have called a urgent meeting with the all CPP leaders.

Problems: CPP don't have sufficient equipments to conduct their job without any obstacle. CPP members training are also necessary.

UDMC: Union disaster management committee and union parishad called a urgent meeting and discussed what to do. The meeting was held around 11.00 am on 15.11.2007



Roles of union disaster management committee during the disaster time

✓ **Alert and Warning Stage:**

CPP: from 2.00 pm on 15.11.2007 they have started to warn the community people. But from 7.00 pm, when the rain started hard, CPP members stop warn the community people as they didn't have any rain coat.

UDMC: Due to lack of equipment, UDMC can't inform the all community level people about the upcoming disaster on 15.11.2007

✓ **Disaster Stage:**

CPP and UDMC: 8.00 pm (15.11.2007) to 6 am (16.11.2007) CPP and UDMC

was unable to help the affected people as there were no roads left for using.

✓ **Rehabilitation Stage:** 6.00 am (16/11/2007) to 6.00 am (17/11/2007), all government agencies, NGO,s CPP worked together.

● How many percent of residents did evacuate to shelters?

5 %

● What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason:

)

During the sird time, people didn't take the warning seriously. Some religious matter worked here as well. Women don't like to go to the cyclone shelter, as there are no separate rooms for the women.

There are also problems with the warning contents. What the contents saying is not similar with the practical situation. That's why people sometimes don't rely on the warning.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	9.00 am	Received	PIO, Upozilla	Union Parishad	1-3	Notice	Phone		cautionary verbal warning		
2	Ongoing	15.11.2007	10:00 am to 5 pm	Received	PIO	Union Parishad	4-7	Order	Phone		To prepare to come to shelters	Inform d ward/Unit level, called meeting with team members	Volunteer had to walk to unit leader
3	Passing	15.11.2007	10.30 am-to 5.00 pm	Send	Union parishad	Unit/Ward level	4-7	order	Phone		To evacuate and come to cyclone centers	Announced over Mega Phone	No communication with Majher char
4	Passing	15.11.2007	10.30 am-to 6.00 pm	send	Ward leader	Community people/residents	4-10	Order	Phone and face to face		Heavy rain	Inform d team leaders to prepare for the worst case	no
5													

11. Others

Please describe other issues and problems or important information.

- **One of the most disaster prone area**
- **More than 400 people died in the last sidr (2007) and 700 missing**
- **More than 5000 people were injured**
- **Total collapse house more than 3000**
- **Half collapse house 1000**
- **Induction area 17 square k.m.**
- **Induction dept was 25 feet**
- **Construction of embankment is urgent**
- **Drinking water problem is all over the union.**
- **They don't have sufficient equipments considering the early warning and disaster management.**

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Badal Chandra Halder	UNO (Upozila administrative officer)	Patharghata Upozila, Barguna	01815345625
H.M.Mahbub Hossain	PIO (Project Implementation Officer)	Patharghata Upozila, Barguna	01717477801
Md. Abul Bashar Khan	Assistant PIO	Patharghata Upozila, Barguna	01735291544

(3)Responding Date and Hour

09 / 04 / 2013 and 10.00 am

(4)Responding Place

Patharghata Upozila office, Barguna

(5)Interviewer

Shariful Islam



2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

Patharghata Upozila office, Barguna

(2) Organization Chart

- Could you provide the latest organization chart? if any.
www.patharghata.gov.bd

- Which departments/units are in charge of disaster management in the latest organization chart?

UNO, PIO, Upozila Chairman, Upozila disaster management committee, Union disaster management committee, union parished. During the disaster time all departments in Upozila work together

(3) Number of Human Resources

Quorum: 15

Enrollment: 15

(4) Population and Number of Household

Year: 2011 Source: Population Census

Population:

Male: 80,544 Female: 83,383 Total:163,927

Number of Household:43,085

(5) Area

95.7 Square kilometer

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		7	
Number of Gram		66	
Number of Para			
Number of Polder			

(7) Outline of Industry

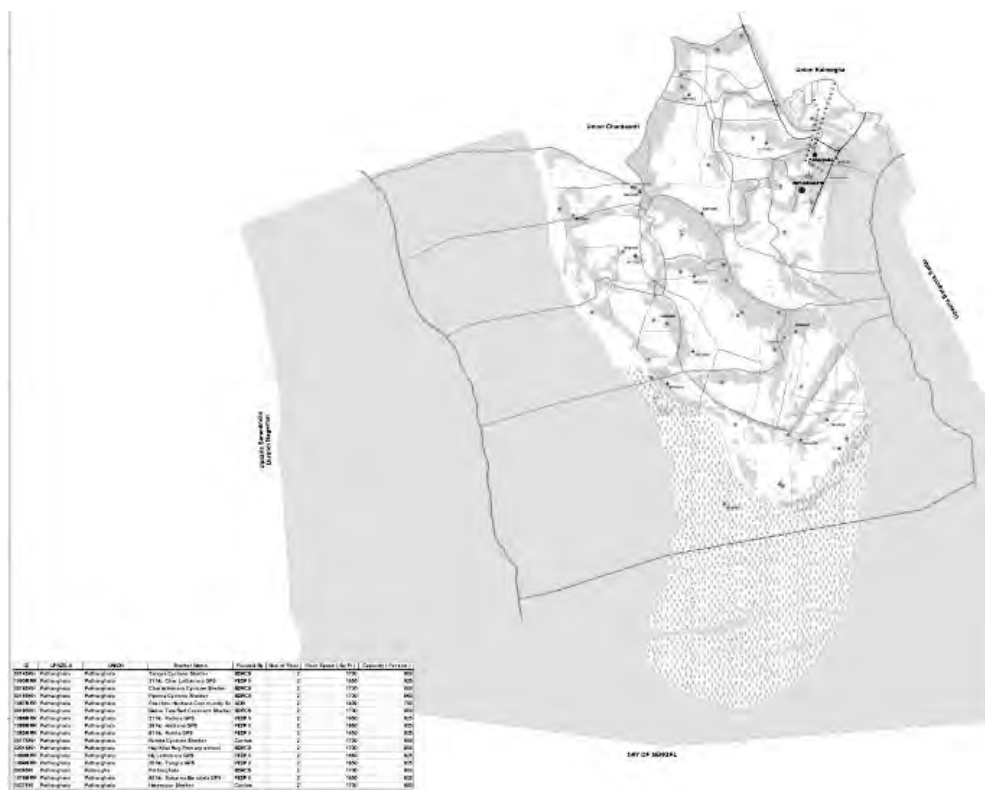
- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	32%	During the disaster time more than 80% of the agricultural land was washed away and the land

		was unable to use more than 2 years due to saline water.
Fisheries	More than 50%	Most of the population's main income source in patharghata was fishing. Lost of fishermen died during the disaster time as they haven't got any warning. Radio signal was weak as well. Most of the fishermen go to the deep sea for the fishing, which is more than 250 k.m. But they haven't received any signal during the sidr time.
Manufacture	n/a	
Service	5%	Specially school teachers suffered a lot during the disaster time as most of the schools were under water.

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of Patharghata Upozila

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

There is no meteorological observation station here

Rainfall: Wind:
 River level: Sea level:

- **Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?**

They don't have any idea about it

- **If yes, do you have map of these locations or can you put the locations on the map?**

n/a

- **Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?**

Upozila don't issue any warning message. What they received from the District level, they send it to the union level. Sometimes the information's they have received from the higher authority, is not always correct.



CPP office at patharghata upozila

Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	Normally in coastal area, there is no disaster like flood.	
Flash flood		
Inside water inundation		
Cyclone	2007, 2009	Around 349 people died in the last sird,2007. More than 271 families were directed affected at that time.

4. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: NGO (Nabo jibon, Undp)

B: Disaster Relief & Rehabilitation Office H:

C: Upozila Disaster management committee I:

D: Union Disaster management committee J:

E: CPP

K: Union Office

F School management committee

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	E,D	D,E,K	F	D,E	D,E,F,G,K	K	C,K,G	C,G	E,G
Union									
Gram									
Para									
Individual									
CPP									

- Residents evacuation drill.....no

5.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	4,51,92,384		34086253		57652071	
Disaster Management	0		0		0	
Early Warning	0		0		0	

- **Please describe the allocation policy and priority of the budget. If any.**
Normally this budget are for Kabikha, Test Relief (TR) and EGPP (Employment generation programme for the poorest). They provide GR cash GR rice in order to construction of bridge (not more than 31 feet), culvert, road etc.

- **Contents of warning : Which warning signal levels do you use?**

10 Levels

- **Do you have any issues and problems regarding warning contents?**

Sometimes warning is not correct. Due to the incorrect information, sometimes people don't care about the contents of warning.

- **Do you have any issues and problems regarding communication method?**

During the disaster time, there is no access of mobile network and electricity. That's why it is not possible to get the information's by fax or mobile phone.

- **Do you have communication radio in the district/ upazila/ unit?**

no

- **How many percent does mobile phone cover in the area?**

85%

- **How many percent does Mosque Microphone cover in the area?**

45%

- **How many percent does commercial power supply cover the area?**

10%

- **How many percent do residents have solar power system?**

5%

- **How many percent do residents have mobile phones?**

60%

(2)Warning and Evacuation

- **Who/ which organization does issue warning and evacuation order?**

DRRO, Barguna District

6.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance: During the disaster time all local government organizations, NGO's, CPP, school management committee work together. They call an emergency meeting and plan for the evacuation. But most of the people, government agencies and CPP don't have enough training.

(2)Shelter Management: Normally school management committees manage the shelter. But they don't have any extra budget for that. They also don't have any equipment in the school cum cyclone shelter. But during the disaster time CPP and school management committee manage the shelter together.

(3)**Rescue and Search** : All government bodies, CPP, Red crescent, together conduct the rescue and search.

(4)**Sufferer Help**: Mainly NGO's and volunteers help the sufferer during the disaster time.

(5)**Damage Survey**: Union parishad (UP) and CPP

(6)**Other**: Upazila disaster management play an important role during the disaster time. But they don't have much manpower to conduct the job properly. They don't have even sufficient equipments to warn the people during the disaster time.

6.4 Financial Status

- **Could you provide the financial status for emergency activities?**

Budget: 0 Expenditure:0

7. Cyclone Shelter

(1)Evacuation Plan

- **Do you have evacuation plan including items below?**
 - **zoning for each evacuation shelter** :
yes but not much cyclone shelter for evacuation.
 - **evacuation route: no**
 - **shelter capacity**: the capacity of the existing cyclone shelter is not enough to accommodate the community. More cyclone shelter is necessary.
 - **storage of food and water, and so on**: Normally kept in the school during the disaster time.

(2)Current Condition of shelters

- **Number of shelters** : Existing: 87 Plan:0
- **Total capacity** : 30,000 Population ratio: 18.30%
- **Solo use:** Multi use

- **Other purposes of multiuse shelter:** School, madrasha
- **Do you think the shelters have enough height for tidal wave/ flood?** Yes

(3)Operation / Management

- **Owner :** School and madrasha management committee

- **Operation/ Management**
Principle of the school and madrasha
- **Cost burden**
School management committee (But they don't have any budget in practical)

(4)Shelter Management Manual

- **Do you have a shelter management manual?**
No

8. Records

(1) Record of Activities

- **Do you have obligation to record normal time activities and report it?**
They have obligation and they report every month
- **Do you have obligation to record activities under state of emergency and report it?**
Yes and report have to done everyday

(2) Damage Records

- **Do you have obligation to survey disaster damage and report it?**
Yes
- **Could you provide information which organization is in charge to record each item in the table below?**

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP, CPP	
	Injured	UP, CPP	
	Evacuees	UP, CPP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
	Generalization, Statistics	UP	

9. Past Disaster Records

- **Could you provide past disaster records? If possible, could you fill the table below?**

We haven't found any record in Patharghata Upazila office. But when we have talked with the Union level, they told that they have provided union level survey record to the Upazila office.

#	1	2	3	4	5
Name	Cyclone				
Type	Sidr				
Start Date	15.11.2007				
End Date	15.11.2007				
Maximum Wind Velocity	220 km/hour				
Highest Sea Level	23 feet				
Total Rainfall					
Dead Missing	349				
Injured	2000				
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area	70%				
Inundation Depth	16 feet				
Agriculture Damage	80% of the agricultural land				
Fisheries Damage	100%				
Economic Losses					
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- **Name of the cyclone: Sidr**
- **Record of activities including time series, if any. no**
- **If you do not have the record of activities, could you fill the next table?**
- **If you have any issues and problems related to each stage of disaster management, please describe below.**

Issues and Problems:

✓ **Normal Times:**

DMC and CPP: Upazila disaster management committee and PIO conduct some awareness programme together with CPP and NGO's. Every month these organizations conduct one meeting regarding disaster related issues.

✓ **Alert and Warning Stage:**

DMC and CPP: At this stage Upazila disaster management committee, union disaster management committees, CPP work together. Patharghata Upazila needs more early warning equipments in order to cover whole community level.

✓ **Disaster Stage**

DMC and CPP: All Upazila government agencies, CPP, Ngo's work together in order to reduce damages. Due to lack of vehicle and motorcycle, its really hard to monitor all the activities.

✓ **Rehabilitation Stage**

All organizations, private and government work together at this stage.

- **How many percent of residents did evacuate to shelters?**

5%

- **What were the causes of deaths? Please select below.**

1. **Warning didn't deliver to the residents.**

2. **They stayed the houses even after the warning.**

(Please describe the reason:

It is true that, during the sird time, people didn't take the warning seriously. Some religious matter worked here as well. Women don't like to go to the cyclone shelter, as there are no separate rooms for the women.

There are also problems with the warning contents. What the contents saying is not similar with the practical situation. That's why people sometimes don't rely on the warning.

)

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	10.30 am	Received	DRRO	Union level	1-3	Notice	Phone		cautionary verbal warning	Called meeting	
2	Passing	15.11.2007	11.30	Send	UNO (Upozila)	Union level	1-3	Notice	Phone		cautionary verbal warning	Inform Union leaders	
3	Approaching	15.11.2007	12.00 to 4.30	Received	DRRO	Union level	4-7	recommendation	phone	fax	Warning level and to prepare to move for shelter	Called emergency meeting and inform all government agencies and CPP	Not many shelters to accommodate
4	Passing	15.11.2007	12.00 to 4.30	send	UNO and UDMC	Unit level	4-7	recommendation	phone		Warning level and to prepare to move for shelter	Inform all ward members and CPP unit leaders	Not much shelter and warning equipments
5	On going	15.11.2007	6.00 pm	Received	DRRO	Union level	8-9	Order	phone		To evacuate and come to cyclone shelters	Announced over Mega Phone	No communication with Majher char
6	Passing	15.11.2007	4.00 pm to 8.00 pm	send	Ward leader	Unit level	4-10	Order	Phone and face to face		Heavy rain	Informed team leaders	Mobile network gone down and everybody trying to save their life

11. Others

Please describe other issues and problems or important information.

- About the warning, people were not serious that much during the Sidr time.
- But after the sidr, community people actually care when they heard the warning
- CPP sounds quite active in the field level, but the equipments they have are not sufficient
- CPP don't have any office by their own in upozila level
- Patharghata upozila don't have sufficient equipments to cover the whole area during the disaster time.
- Connecting road to the cyclone shelter is very poor
- Patharghata has the problem with the drinking water. Community people normally drink water from the pond.
- Considering the population, the cyclone shelter is not enough.
- 5 unions in patharghata upozila (charduanti, Kalmegha, Kathaltoli, Kakchira and Patharghata sadar) are the most disaster prone area. Around 126,000 families live in these 5 unions.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Md. Kamrul Islam	Chairman	Charduanti Union	01713961917
Faisal Karim	Secretary	Charduanti Union	017169111328
Harun-or-rashid	member	Union disaster management committee	01716453747

(3)Responding Date and Hour

07 / 04 / 2013

(4)Responding Place

Charduanti Union parishad office

(5)Interviewer

Shariful Islam



2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

Charduanti Union Parishad , patharghata upozila, Barguna

(2) Organization Chart

- **Could you provide the latest organization chart? if any.** No chart available
- **Which departments/units are in charge of disaster management in the latest organization chart?**

UP chairman, Secretary, 12 ward members, 10 village police, union disaster management committee, CPP



(3) Number of Human Resources

Quorum: 13

Enrollment: 39

(4) Population and Number of Household

Year: 2011 Source: Union parishad record

Population:

Male: 15342 Female: 16,256 Total: 31,598

Number of Household: 4865

(5) Area

10.92 Square kilometer

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			10
Number of ward			9
Number of Polder			1

(7) Outline of Industry

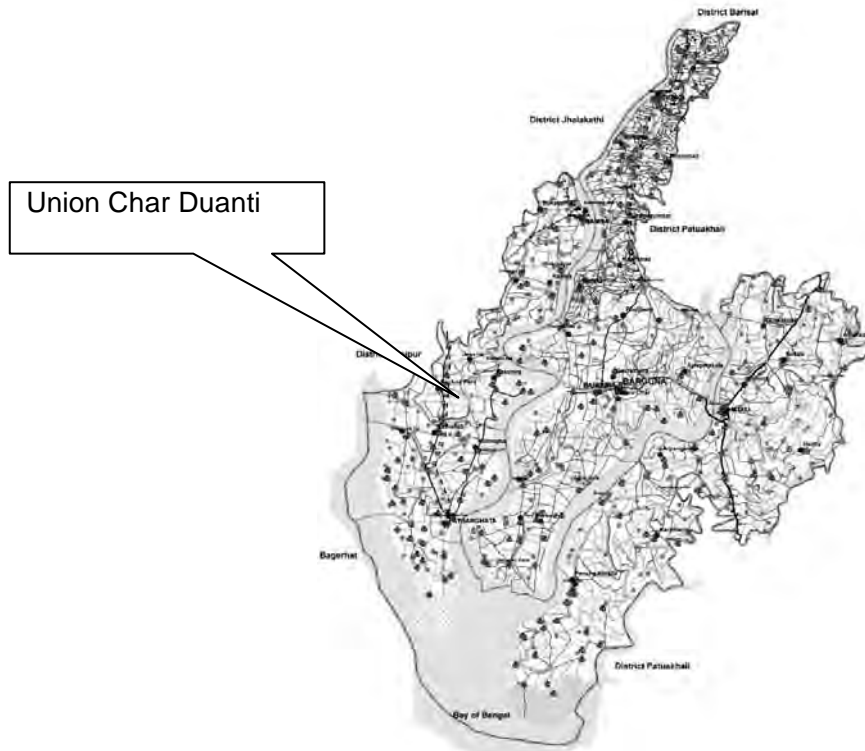
- Population by industry

- Vulnerability by industry N/A

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Indicating Charduanti union in the map

3. Meteorological/ Hydrologic Observation Station

- **Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.**

There is no meteorological observation station here

Rainfall:

Wind:

River level:

Sea level:

- **Do you know the location of meteorological/ hydrologic observation**

station operated by Meteorological department or other organizations?

no

- If yes, do you have map of these locations or can you put the locations on the map?
- **Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?**

It is really important to provide correct information to the community people. it happened in the 2007's sidr that the warning reach to the community at the end and some of the community never heard the warning.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007 and 2009	Dead-85,injured 650



Activities by team B at charduanti union

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?
 - A: District Disaster management committee G: Madrasa Management Committee
 - B: Disaster Relief & Rehabilitation Office H:
 - C: Union Disaster management committee I: NGO (Red Crescent, Multi task)
 - D: Unit Disaster management committee J:
 - E: CPP K:
 - F: School Management Committee L:

(3) Duty of each organization
 Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,E	C,E	E,F,G	C,D,I	C,D,E,G,I	C,I	C,I	C,I	E,C,D
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: 24 Part-time: 0

(2) Office and Equipments

Sole use office room

Equipments : 2 Desks File cabinets
 Copy machine 2 Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? No
- Planning/Reviewing/Updating disaster management plan: No
- Staff training: No
- Emergency drill at district/ Upazila/ Union level: No
- Equipment maintenance: No
- Inter organizational/Stakeholder meeting: Once a month
- Drawing/Reviewing/Updating hazard map: no



- Residents awareness campaign: twice a year
- Residents evacuation drill: no

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	6069847	6055477	4728942	4708942	13096631	13086880
Disaster Management	10,000	10,000	30,000	30,000	100,000	100,000
Early Warning	0	0	0	0	0	0

- **Please describe the allocation policy and priority of the budget. If any.**

There is no budget for early warning

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

No idea about SOD

- Please describe gaps between the SOD and actual activities? If any.

(1)Number of Human Resources

- How many staffs are mobilized? 0
- Do you have any regulations/ rules for mobilization of staffs? no

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time UP office
Others:
- Equipments : 1 Desks File cabinets
 Copy machine 1 Computers
 UPS Internet
 TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
UP Office: UNO, upozila office/phone
CPP: Receive warning from Upozila CPP office by phone
- Where do you send the warning to? What is communication method?
UP Office: send to unit leader and unit CPP leader by phone
CPP: send to village CPP leader by phone
- How long does it take usually since receiving till sending information?
10 minutes
- Contents of warning : Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?
Sometimes warning is not correct. Due to the incorrect information, sometimes people don't care about the contents of warning.
- Do you have any issues and problems regarding communication method?
no
- Do you have communication radio in the district/ upazila/ unit?
no
- How many percent does mobile phone cover in the area?
100 %
- How many percent does Mosque Microphone cover in the area?
50 %
- How many percent does commercial power supply cover the area?
1 %
- How many percent do residents have solar power system?
9 %
- How many percent do residents have mobile phones?
65 %

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
UNO. Union chairman normally get warning information's from the UNO and CPP upozila leader.

7.3 The Other Activities

Could you explain regarding activities below? If any.

Evacuation Guidance

CPP: During the disaster time CPP members call a meeting and try to work with other organizations like UP and Red Crescent.

UDMC: During the disaster time all local government organizations, NGO's, CPP, school management committee work together. They call an emergency meeting and plan for the evacuation. But most of the people, government agencies and CPP don't have enough training.

(1) Shelter Management:

CPP: Only the disaster time CPP coordinates with the school/ madrasha management committee to manage the cyclone shelter.

School Management committee: Normally school management committees manage the shelter. But they don't have any extra budget for that. They also don't have any equipment in the school cum cyclone shelter. Rescue and Search



Cyclone shelters at charduanti union

(2) Sufferer Help: Disaster time upozilla disaster management committee, union disaster management committee, CPP, red-crescent, and different NGO's work together to help the sufferer.



Discussion about the shelter with the community people

(3)**Damage Survey:** CPP and Union parishad jointly conduct the damage survey.

(4)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?
Budget: 0 Expenditure: -0

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - **zoning for each evacuation shelter** : no
 - **evacuation route:** Most of the cyclone shelter's connecting route's condition is really poor. Mainly during the disaster time it is really hard to use the connecting road to the cyclone shelter.
 - **shelter capacity:** For 31598 people there are only 10 cyclone shelters in Charduanti union. It is really urgent to construct few more cyclone shelter in this union. We have visited few primary school, which are possible to use as a cyclone shelter with reconstruction work.
 - **storage of food and water, and so on** : School and madrasha normally used for the storage of cyclone shelter.

(2)Current Condition of shelters

- Number of shelters : Existing: 10 Plan:0
- Total capacity : 4400 Population ratio: 8 %

- Solo use:1 Multi use: 9
- Other purposes of multiuse shelter: school, madrasha and union parishad
- Do you think the shelters have enough height for tidal wave/ flood? yes

(3)Operation / Management

- **Owner:** School and Madrasha management committee
- **Operation/ Management :**
School management committee.During the disaster time CPP and Union Parishad also manage the shelter.
- **Cost burden :** School management committee but they don't have any additional budget for managing the shelter.

(4)Shelter Management Manual

- **Do you have a shelter management manual?** No

Records

(5)Record of Activities

- Do you have obligation to record normal time activities and report it?
No
- **Do you have obligation to record activities under state of emergency and report it?** Yes. During the emergency time Union leaders and CPP is bound to report to the upper agency

(6)Damage Records

- **Do you have obligation to survey disaster damage and report it?** Union parishad is bound to survey and report to the UNO.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP,	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	

	Public Utilities	UP	
	Generalization, Statistics	UP, UNO	

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	3	4	5
Name	Cyclone			
Type	Sydr			
Start Date	15.11.2007			
End Date	15.11.2007			
Maximum Wind Velocity	220 km/hour			
Highest Sea Level	20 feet			
Total Rainfall				
Dead Missing	85 200(fishermen)			
Injured	650			
Total Collapse Houses	3000			
Half Collapse Houses	4000			
Total Collapse Dike	25			
Half Collapse Dike	100			
Inundation Area	10.92 sq km			
Inundation Depth	20 feet			
Agriculture Damage	20000000 taka			
Fisheries Damage	50000000 taka			
Economic Losses	200000000 taka			
Others				

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- **Name of the cyclone:** Sidr
- **Record of activities including time series, if any.** no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ **Normal Times:**

CPP: They don't have any record with them. But around 10 am on 15/11/2007 they have called a urgent meeting with the all CPP leaders.

Problems: CPP don't have sufficient equipments to conduct their job without any obstacle. CPP members training are also necessary.

UDMC: Union disaster management committee and union parishad called a urgent meeting and discussed what to do. The meeting was held around 11.00 am on 15.11.2007

✓ **Alert and Warning Stage:**

CPP: from 2.00 pm on 15.11.2007 they have started to warn the community people. But from 7.00 pm, when the rain started hard, CPP members stop warn the community people as they didn't have any rain coat.

UDMC: Due to lack of equipment, UDMC can't inform the all community level people about the upcoming disaster on 15.11.2007

✓ **Disaster Stage:**

CPP and UDMC: 8.00 pm (15.11.2007) to 6 am (16.11.2007) CPP and UDMC was unable to help the affected people as there were no roads left for using.

✓ **Rehabilitation Stage:** 6.00 am (16/11/2007) to 6.00 am (17/11/2007), all government agencies, NGO,s CPP worked together.

- How many percent of residents did evacuate to shelters?

3 %

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.
2. They stayed the houses even after the warning.

(Please describe the reason:

)

During the sird time, people didn't take the warning seriously. Some religious matter worked here as well. Women don't like to go to the cyclone shelter, as there are no separate rooms for the women.

There are also problems with the warning contents. What the contents saying is not similar with the practical situation. That's why people sometimes don't rely on the warning.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	9.00 am	Received	PIO, Upozilla	Union Parishad	1-3	Notice	Phone		cautionary verbal warning		
2	Ongoing	15.11.2007	10:00 am to 5 pm	Received	PIO	Union Parishad	4-7	Order	Phone		To prepare to come to shelters	Inform d ward/Unit level, called meeting with team members	Volunteer had to walk to unit leader
3	Passing	15.11.2007	10.30 am-to 5.00 pm	Send	Union parishad	Unit/Ward level	4-7	order	Phone		To evacuate and come to cyclone centers	Announced over Mega Phone	No communication with Majher char
4	Passing	15.11.2007	10.30 am-to 6.00 pm	send	Ward leader	Community people/residents	4-10	Order	Phone and face to face		Heavy rain	Inform d team leaders to prepare for the worst case	no

11. Others

Please describe other issues and problems or important information.

- More early warning equipments is necessary
- More cyclone shelter is necessary
- Connecting road to the cyclone shelter necessary
- Scarcity of drinking water. They normally drink water from ponds.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Asaduzzaman	Chairman	Patharghata sadar Union	01718861301
Sanjai Kumar Hajra	Secretary	Patharghata sadar Union	01731257234

(3) Responding Date and Hour

06 / 04 / 2013

(4) Responding Place

Patharghata Union parishad office

(5) Interviewer

Shariful Islam



Questionnaires fill up at union parishad and at padma ward (unit)

General Information of Organization (District/ Upazila/ Union)

(6)Name of Organization

Patharghata sadar Union Parishad , Patharghata upozila, Barguna

(7)Organization Chart

- **Could you provide the latest organization chart? if any.** No chart available
- **Which departments/units are in charge of disaster management in the latest organization chart?**

UP chairman, Secretary, 12 ward members, 10 village police, union disaster management committee, CPP

(8)Number of Human Resources

Quorum: 13

Enrollment:39

(9)Population and Number of Household

Year: 2011 Source: Union parishad record

Population:

Male: 19,500 Female: 20,500 Total: 40,000

Number of Household: 8700

(10)Area

50.67 Square kilometer

(11)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			12
Number of ward			9
Number of Polder			3

(12)Outline of Industry

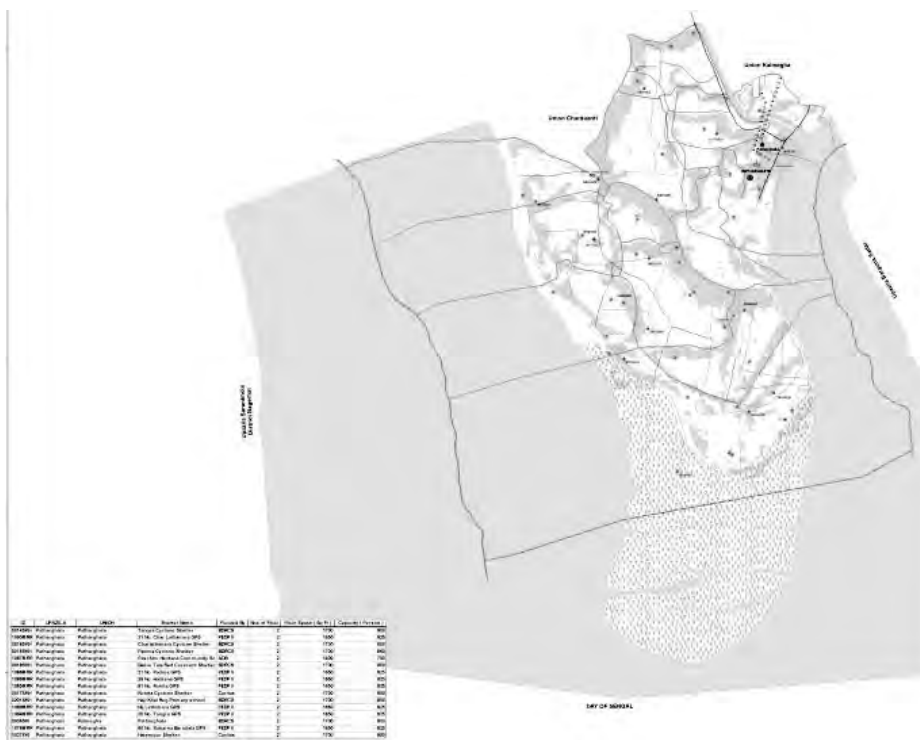
- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		After the sidr, farmers were mainly dependent on the relief.During the disaster time 10500 acre of agricultural land was washed away and the

		land was unable to use more than 2 years due to saline water.
Fisheries		Lots of fishermen died during the disaster time as they haven't got any warning. Radio signal was weak as well. 3189 hectares of ponds were damaged due to sidr 2007
Manufacture		
Service		

(13)Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of patharghata sadar union

2. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

There is no meteorological observation station here

Rainfall: Wind:
 River level: Sea level:

- **Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?**

no

- If yes, do you have map of these locations or can you put the locations on the map?
- **Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?**

It is really important to provide correct information to the community people. it happened in the 2007's sidr that the warning reach to the community at the end and some of the community never heard the warning.

3. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007 and 2009	Around 200 people died and 100 were missing. Around 700 people were injured

4. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: District Disaster management committee G: Madrasa Management Committee

B: Disaster Relief & Rehabilitation Office H:

C: Union Disaster management committee I: NGO (Red Crescent, Naba jibon, CDMP)

D: Unit Disaster management committee J:

E: CPP K:

F: School Management Committee L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,E	C,E	E,F,G	C,D,I	C,D,E,G,I	C,I	C,I	C,I	E,C,D
Gram									
Para									
Individual									
CPP									

5. Normal Time Activities

5.1 Structural Framework

(1) Number of Human Resources

Full-time: 28 Part-time: 0

(2) Office and Equipments

Sole use office room-4

Equipments :	3 Desks	4 File cabinets
	Copy machine	3 Computers



Basic questionnaire fill up by Mr Jahurul at Padma ward, patharghata sadar upozila

5.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? No
- Planning/Reviewing/Updating disaster management plan: No
- Staff training: yes, with NGO, 3 to 4 times in a year
- Emergency drill at district/ Upazila/ Union level: No
- Equipment maintenance: No
- Inter organizational/Stakeholder meeting: Once a month
- Drawing/Reviewing/Updating hazard map : no



Hazard map of patharghata sadar union

- Residents awareness campaign: no



- Residents evacuation drill: no

5.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	74,30442	7034120	13789667	9976496	8633596	8633596
Disaster Management	25,000	25,000	50,000	50,000	20,000	20,000
Early Warning	0	0	0	0	0	0

- **Please describe the allocation policy and priority of the budget. If any.**

Normally this budget are for Kabikha, Test Relief (TR) and EGPP (Employment generation programme for the poorest). They provide GR cash GR rice in order to construction of bridge (not more than 31 feet), culvert, road etc.

6. Activities under State of Emergency

6.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

No idea about SOD

- Please describe gaps between the SOD and actual activities? If any.

(1)Number of Human Resources

- How many staffs are mobilized? 0

- Do you have any regulations/ rules for mobilization of staffs? no

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time UP office
Others:
- Equipments : 1 Desks 1 File cabinets
 Copy machine 1 Computers
 UPS Internet
 TV set Radio receiver

6.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
UP Office: receive the warning from PIO,UNO, Patharghata upozila by phone
CPP: Receive warning from Upozila CPP office by phone
- Where do you send the warning to? What is communication method?
UP Office: send to unit leaders and unit CPP leader by phone
CPP: send to village CPP leader by phone
- How long does it take usually since receiving till sending information?
10 minutes
- Contents of warning: Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?
Sometimes warning is not correct. Due to the incorrect information, sometimes people don't care about the contents of warning.
- Do you have any issues and problems regarding communication method?
If the mobile network gone, than it is really hard to pass the information to the unit leaders.
- Do you have communication radio in the district/ upazila/ unit?
no
- How many percent does mobile phone cover in the area?
95 %
- How many percent does Mosque Microphone cover in the area?

45 %

- How many percent does commercial power supply cover the area?

8 %

- How many percent do residents have solar power system?

5%

- How many percent do residents have mobile phones?

85 %

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

UNO,PIO and upozila office issue warning and evacuation order

6.3 The Other Activities

Could you explain regarding activities below? If any.

Evacuation Guidance

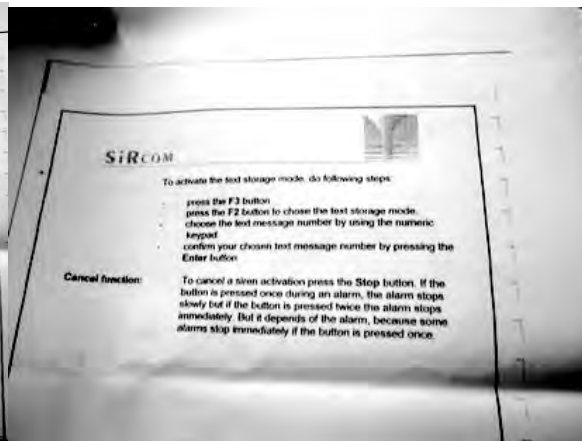
CPP: During the disaster time CPP members call a meeting and try to work with other organizations like UP and Red Crescent.

UDMC: During the disaster time all local government organizations, NGO's, CPP, school management committee work together. They call an emergency meeting and plan for the evacuation. But most of the people, government agencies and CPP don't have enough training.

(1)Shelter Management:

CPP: Only the disaster time CPP coordinates with the school/ madrasha management committee to manage the cyclone shelter.

School Management committee: Normally school management committees manage the shelter. But they don't have any extra budget for that. They also don't have any equipment in the school cum cyclone shelter. Rescue and Search



(2)Sufferer Help: Disaster time upozila disaster management committee, union disaster management committee, CPP, red-crescent, and different NGO's work together to help the sufferer.

(3)**Damage Survey:** CPP and Union parishad jointly conduct the damage survey.

(4)Other

6.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget: 20000

Expenditure: 20000

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - **zoning for each evacuation shelter** : When any new cyclone shelter is constructed by the government (LGED),NGO's, Personal donation or by any donor agencies (JICA, UNDP) etc, local government do the zoning for each evacuation shelter. But due to lack of cyclone shelter considering the population, zoning system don't work all the time.
 - **evacuation route:** Most of the cyclone shelter's connecting route's condition is really poor. Mainly during the disaster time it is really hard to use the connecting road to the cyclone shelter.
 - **shelter capacity:** For 40000 people there are only ten cyclone shelters in Patharghata sadar union. It is really urgent to construct few more cyclone shelter in this union. We have visited few primary schools, which are possible to use as a cyclone shelter with reconstruction work.
 - **storage of food and water, and so on** : School and madrasha normally used for the storage of cyclone shelter.

(2)Current Condition of shelters

- Number of shelters : Existing: 10 Plan:0
- Total capacity : 3800 Population ratio: 9.5 %
- Solo use:5 Multi use: 5
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood? yes

(3)Operation / Management

- **Owner:** School and Madrasha management committee
- **Operation/ Management :**
School head teacher and school management committee. During the disaster time CPP and Union Parishad also manage the shelter.
- **Cost burden :** School management committee but they don't have any additional budget for managing the shelter.

(4) Shelter Management Manual

- **Do you have a shelter management manual? No**

Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it?
No
- **Do you have obligation to record activities under state of emergency and report it?** Yes. During the emergency time Union leaders and CPP is bound to report to the upper agency

(6) Damage Records

- **Do you have obligation to survey disaster damage and report it?** Union parished is bound to survey and report to the UNO.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP,	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics		UP, UNO	

8. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone	Cyclone			
Type	Sydr	Aila			
Start Date	15.11.2007	25.05.2009			
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity	220 km/hour	90km/hour			
Highest Sea Level	21 feet	4 feet			
Total Rainfall					
Dead	200				
Missing	100				
Injured	700				
Total Collapse Houses	3500				
Half Collapse Houses	2400				
Total Collapse Dike	9				
Half Collapse Dike	12				
Inundation Area	50.67 sq. km				
Inundation Depth	15 feet				
Agriculture Damage	10500 acre				
Fisheries Damage	3189 hectors of pond area were damaged				
Economic Losses					
Others					

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- **Name of the cyclone:** Sidr
- **Record of activities including time series, if any.** no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ **Normal Times:**

CPP: They don't have any record with them. But around 10 am on 15/11/2007 they have called a urgent meeting with the all CPP leaders.

Problems: CPP don't have sufficient equipments to conduct their job without any obstacle. CPP members training are also necessary.

UDMC: Union disaster management committee and union parishad called a urgent meeting and discussed what to do. The meeting was held around 11.00 am on 15.11.2007

✓ **Alert and Warning Stage:**

CPP: from 2.00 pm on 15.11.2007 they have started to warn the community people. But from 7.00 pm, when the rain started hard, CPP members stop warn the community people as they didn't have any rain coat.

UDMC: Due to lack of equipment, UDMC can't inform the all community level people about the upcoming disaster on 15.11.2007

✓ **Disaster Stage:**

CPP and UDMC: 8.00 pm (15.11.2007) to 6 am (16.11.2007) CPP and UDMC was unable to help the affected people as there were no roads left for using.

✓ **Rehabilitation Stage:** 6.00 am (16/11/2007) to 6.00 am (17/11/2007), all government agencies, NGO,s CPP worked together.

- How many percent of residents did evacuate to shelters?

3 %

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.
2. They stayed the houses even after the warning.

(Please describe the reason:

)

During the sird time, people didn't take the warning seriously. Some religious matter worked here as well. Women don't like to go to the cyclone shelter, as there are no separate rooms for the women.

There are also problems with the warning contents. What the contents saying is not similar with the practical situation. That's why people sometimes don't rely on the warning.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	9.00 am	Received	PIO, Upozilla	Union Parishad	1-3	Notice	Phone		cautionary verbal warning		
2	Ongoing	15.11.2007	10:00 am to 5 pm	Received	PIO	Union Parishad	4-7	Order	Phone		To prepare to come to shelters	Inform d ward/Unit level, called meeting with team members	Volunteer had to walk to unit leader
3	Passing	15.11.2007	10.30 am-to 5.00 pm	Send	Union parishad	Unit/Ward level	4-7	order	Phone		To evacuate and come to cyclone centers	Announced over Mega Phone	No communication with Majher char
4	Passing	15.11.2007	10.30 am-to 6.00 pm	send	Ward leader	Community people/residents	4-10	Order	Phone and face to face		Heavy rain	Inform d team leaders to prepare for the worst case	no

10. Others

Please describe other issues and problems or important information.

First Aid box, Mega phone, loud speaker, battery, torch,
Connecting road to the cyclone shelter is necessary
It is urgent to dig the ponds for drinking water
Vehicle is necessary to carry the injured people during the disaster time

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Abdul Wahid	DRRO	District relief & rehabilitation officer	01742413599
Md. shabuddin	Deputy director- CPP	Zila Parisad	01712026305
Shahidul Islam	Head assistant	DRR office	
Nurul Huda	Computer operator	DRR office	

(1) Responding Date and Hour

08 / 04 / 2013

(2) Responding Place: DC office, CPP office, Bhola

(3) Interviewer: Mustafizur Rahman, Sukhen & Afrina



Map of Bhola District



Interview with CPP

2. General Information of Organization (District/ Upazila/ Union)

Name of Organization: District administration

(1) Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart but inform the organ gram verbally

- Which departments/units are in charge of disaster management in the latest organization chart?

District Relief & Rehabilitation Office (DRRO) is responsible for disaster management where DC is the head of district DMC. During disaster DC deploys officers from different government agencies with CPP particularly. CPP and DRR office play an important role to deal the disaster.

(2)Number of Human Resources: DRR office (7), DMC -37

Quorum: One third of the member Enrollment:

DRR office human resources (7) are DRRO, Head assistant, Computer assistant, Wireless opera, Driver, Peon, guard

(3)Population and Number of Household

Year: 2011 Source: BBS

Population:

Male: 8,84,069 Female: 8,92,726 Total: 17,76,795

Number of Household: 3,72,723

(4)Area

3403.48 Square kilometer

(5)Number of Subordinate Government Agencies: 30

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	7		
Number of Union	68		
Number of Gram	434		
Number of Para			
Number of Polder	2		

(6)Outline of Industry

Bhola is the biggest island of Bangladesh. From the beginning fisheries and agriculture was main livelihood of the early settler. A big poultry feed industry is under construction. Brick production is increasing and there is gas based power station is active here. Bhola has been producing huge amount of timber. The Saw mills are found here and there. People have been living on agriculture, fisheries and service sector. Agriculture and fish culture are manual based. Bhola exports Fish and coconut, bettle-nut to other area of Bangladesh.



Bettle- nut

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	48%	
Fisheries	12%	Most (90%)
Business/ Manufacture	18%	
Service	20%	
Others	12%	

(7)Map

- Could you provide map of District/ Upazila/ Union, if any?

The same map is available in website of GoB

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

The respondent are not sure but think BWDB might have observation centre at River level and not sure whether they are recording the data or not.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? No idea
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

It is possible if coordination is established with the observation centre and it is necessary indeed.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		

Inside water inundation	Twice per month	Only the area where water regulator does not work well and outside the polder. Since there many island is emerging besides the district where no polder build so far
Cyclone	Thrice in 40 years	Most devastating cyclone attacked in 1970 and thousands of people died. At that time no cyclone centre or polder was available. People have no place to evacuate. People died like other animal.
River bank erosion	Every year	The south bank/river side of this district has been cracking/erosion every year.

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: District administration

B: Disaster Relief & Rehabilitation Office H: LGED

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A,G	C,G,F	D, H	C,A,F	E,F	F	B,F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Red-Crescent, Save the children etc.

6. Normal Time Activities

No budget is allocated for normal activities. Some international NOGs arrange mock drill, awareness program and training for community people.

6.1 Structural Framework

(1)Number of Human Resources NO separate Office and Equipments

Full-time: Part-time:
DRR office: 7, DMC office: 37, CPP office-5

(2)Office and Equipments

Sole use office room

Equipments : Desks File cabinets
Copy machine Computers

DRR office: Desks (4), File cabinets (5), Copy machine-1, Computers- 1,
UPS-1, Internet-1, TV set-1 Radio receiver

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:
Only DRRO Got 7 days long training on SoD
- Emergency drill at district/ Upazila/ Union level: NGOs arrange occasionally.
- Equipment maintenance : NO

DRR office has one wireless operator who does not know how to operate wireless and CPP has HF wireless set. Both DRRO and CPP have no budget to maintenances of Equipment.



Wireless Antenna in DRRO office



HF & VHF equipment with operator

- Inter organizational/Stakeholder meeting: only at disaster time.
- Drawing/Reviewing/Updating hazard map: NO hazard map
- Residents awareness campaign: No idea
- Residents evacuation drill: No

6.3 Financial Status:

NO budget except disaster/emergency time. DRRO office reserves 50 metric ton Rice and 200 thousand taka per year

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? YES

- Please describe gaps between the SOD and actual activities? If any.

May be there is gap but we work as per our ability and resources.

(1)Number of Human Resources

- How many staffs are mobilized?
- Do you have any regulations/ rules for mobilization of staffs? YES

(2)Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others: normally DRR office is used as emergency head quarter

- Equipments : Desks File cabinets
Copy machine Computers
UPS Internet
TV set Radio receiver

DRR office: Desks (4), File cabinets (5), Copy machine-1, Computers- 1,
UPS-1, Internet-1, TV set-1 attena-1, Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? :
For CPP- From control room, or CPP head quarter, to Zonal office, or direct from CPP head office.

For DRR office: Disaster Management Bureau is in charge of distributing the warning to District level.

What is communication means? : HF wireless, Cell/land phone mail, and fax (rare)

- Where do you send the warning to?
CPP send it bottom level i.e. from district to upazila to Union level CPP member & volunteer. The DMC of district level and DRR office send it to Upazila level PIO, DMC then union level UP member & DMC.

What is communication means? Cell phone, VHF wireless, direct communication but cell phone is widely used.

- How long does it take the time usually since receiving till sending?
20 minutes
- Contents of warning :

11 levels warning 6 levels warning Others:

Contents is very simple, evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of

wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?
We can communicate 1 to 1 (one person to another one) by cell phone which is very slow. Radio (good quality) is necessary for unit leader. Cell phone is main communication means at the moment we also use mosque mike during emergency. Most of the staff or volunteer are not entitle to charge og the phone call and maintenances, they use personal phone.
- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 95%
- How many percent does Mosque Microphone cover in the area? 70%
- How many percent does commercial/govt. power supply cover the area? 10%
- How many percent do residents have solar power system? 9%

- How many percent do mobile phone network cover the area? 95%
- How many percent do residents have mobile phones? 90%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
DC with DMC and CPP at district level issue warning and evacuation order. Other downward agencies are instructed to follow the order.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

During the disaster local government bodies, CPP, DMC work together. They call an emergency meeting and plan for the evacuation. In many occasion they use force (police) to evacuate people. UP informed that they evacuate people from different island using trawler or boat during Sidr.

Fire service under the ministry of home they are responsible for fire accident. In every upazila have suppose to station, the total 7000 worker are deployed in this system

(2)Shelter Management:

Normally SMC (school management committees) manage the shelter. SMCs have regular activities. CPP may demand to give them management authority but they have no SC management experience. School teacher have to go school every day. CPP would not go there every day so it is better to keep the authority to SMC but CPP member can be included in SC management committee.

(3)Rescue and Search:

At the time of disaster/emergency local administration do not search or rescue but soon after the passing of cyclone it does if it is necessary.

Bangladesh Army or naval force deployed in evacuation if it is required.

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5)Damage Survey: The survey conducted by UP with the help of CPP

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

DRRO office reserves 50 metric ton Rice and 200 thousand (200,000) taka for emergency per year. District administration can allocate budget considering disaster situation. Upaazila parisad have no budget but UNO manage if upper management instruct o allocate from other source.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below? During the disaster we ask people to take shelter at their nearest one.

➤ zoning for each evacuation shelter NO.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not

followed to construct.

- evacuation route: Access road are not in good condition
- shelter capacity: 300-350 persons per cyclone shelter
- storage of food and water, and so on: NO

(2)Current Condition of shelters

- Number of shelters : 506 Existing: 80% good condition Plan:
- Total capacity : 151800 Population ratio
- Solo use: few Multi use: Most
- Other purposes of multiuse shelter: shelter cum union parisad.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB

- Operation/ Management : Mostly SMC
School management committee generally and school head teacher particularly responsible to maintain the SC. During the disaster time CPP and Union Parishad also manage the shelter.

- Cost burden : LGED/GoB & NGO sponsored

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? YES
- Do you have obligation to record activities under state of emergency and report it? YES

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
Union Parisad conduct survey if the upazila office instructs to do so and they do not know whether it is obligatory or not. Generally UP do damage survey and record it and it is required. Sometime UNO assign government staff with UP. Aid agencies give requisition for information on damages and UP provides.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	UNO, UP, CPP, Police	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Items	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	220	190			
Highest Sea Level	14	15			
Total Rainfall	More than Aila				
Dead	12	5			
Missing	8	0			
Injured	2	25			
Total Collapse Houses	4545	2938			
Half Collapse Houses	7286	16799			
Total Collapse Dike					
Half Collapse Dike		14 km			
Inundation Area					
Inundation Depth					
Agriculture Damage	11065 ha	3171 acre			
Fisheries Damage	80,00,000 lack tk.	37.99 lack tk.			
Livestock	118	4897			
No. of Cyclone Shelter	10	37			
Affected School, College Mosque/ Modir	426	88			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. YES
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities are ignored due to budget crisis (CPP, PIO).

Training and awareness program are implemented by NGOs like Red-Crescent, Caritas, Save the children etc.

✓ Alert and Warning Stage:

No adequate logistic to make people alert or warn

Every CPP Unit leader should have Radio

Hand mikes are out of ordered.

Mosque Mike is very effective to disseminate warning

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Damage survey are manipulated

Access road to shelter are interrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

CPP has no scope to rehabilitee activities

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 7%

- What were the causes of deaths? Please select below.
 1. Warning didn't deliver to the residents well ahead of time
 2. They stayed the houses even after the warning.

(Please describe the reason:

Few people died/missing particularly of island people as they have no polder or to cyclone centre, the access road was not usable. Fisherman community was the most vulnerable, died during sidr. Fishermen use to go more than 150 km away in the deep sea to catch fish. They could not back to coast due to long distance. Even many boats have no Radio. They have no life jacket. If any boat sinks no body come to rescue.

On the other hand, people didn't take the warning seriously. Some said if it is their fate to die then no body helps to survive. Some religious matter worked here as well. Old people Women don't like to go to the cyclone shelter.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13. 11	3pm	Rec	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order	wireless	speaking	Distance cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper agency	Lower agency	4	notice	wireless	speaking	Cautionary		
3	ongoing	14 Nov	9 pm	R/S	Upper agency	Lower agency	6	Notice Recommend	wireless	speaking	Evacuate		
4	ongoing	14 Nov	12pm	R/S	Upper agency	Lower agency	7	Notice Recommend	All	speaking			
5	Passing	15 Nov	12 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
6	Passing	14 Nov	6 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- CPP are divided into 7 zone, that consist of 37 Upazila, and these Upazila are divided into 322 union. Bhola is one of the zone offices.
- Fishermen are the most vulnerable. They could not back to coast due to long distance. They have no life jacket or Radio. Nor the owner of the boat or fishermen buys this equipment. Owner should provide this.
- Tow type of people fall in death trap of cyclone a) fisherman of deep sea b) people who live outside the polder and island areas
- Now people are aware after huge death and damage by different cyclone. They follow the warning. UP evacuate people from different island using trawler or boat during Sidr
- Old and pregnant women faced the sever problem.
- Training for fisherman is essential. CPP are not sure whether fisherman has knowledge at different level of signal
- In 1991 there is a big cyclone attack in the coastal area particularly in Chittagong and Bhola. At that time CPP contributed a lot. There are 24 CPP were died during discharging their duties. But they did not get any benefit from the Govt. Even they have no life insurance. They have no recognition. They are dying for other people. If the society and govt. gave their due respect they will be more motivated.
- Many NGOs have been working/implementing Disaster related program.
- CPP receive message from control room three times every day 1) 9.30 morning 2) 2.30 noon, 3) 8.00 night



Interview with chairman of fisherman association



A killa is being constructed

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Noor E- Alam	UNO	UNO office	01740920246
Md. Mokammel Haque	AD	CPP	01718200230
Md. Siddique		Muslim Aid	01712909226
Md. Mahealam			01710780288
Md. Anisur Rahman	PIO	UNO office	01712372418

(1) Responding Date and Hour

16 / 04 / 2013 (10:00am – 1:00pm)

(2) Responding Place: UNO office, Char Fasson

(3) Interviewer: Mustafizur Rahman

Sukhen & Afrin



Meeting with UNO



Meeting with PIO



Meeting with CPP

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization; upazila parisad

(2) Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

Upazila Disaster Management Committee, PIO and CPP office are responsible for disaster management at upazila level. Upazilla chairman works as adviser at upazila level. During disaster, coordination among different unit headed buy UNO takes place. CPP and PIO play an important role to manage the disaster.

(3) Number of Human Resources: UP DMC -36, PIO-2, CPP- 2250

Quorum: Two third of the member Enrollment:

(4) Population and Number of Household

Year: 2011 Source: BBS

Population:

Male: 2,28,693 Female: 2,27,744 Total: 4,56,437

Number of Household: 94,649

(5) Area

1106.31 Square kilometer

(6) Number of Subordinate Government Agencies: 35

Let us know the number of subordinate government agencies.

The agencies are not subordinate but this agencies have their office at thana/upazila level. One unit from every ministry should have existence at upazila level. Upazila parisad/ UNO are in charge of coordination among the agencies. (BRDB, Agriculture, education, livestock, LGED, health, Family planning, postal, social welfare, Youth development Bank)

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		21	
Number of Gram		77	
Number of Para			
Number of Polder		1 (56/57)	

(7) Outline of Industry

Char Fasson is the biggest upazila of Bhola. From the beginning fisheries and agriculture was main livelihood of the early settler. Char Fasson has been producing huge amount of timber. The Saw mills are found here and there, auto rice mill, ice factory are few in number. People have been living on agriculture, fisheries and service sector. Agriculture and fish culture are manual based. Char Fasson exports Fish and coconut, betel-nut to other area mainly in Dhaka of Bangladesh. The main crop is rice with some winter crop pulse, chilies etc. Besides Coconut, betel-nut has been producing.



Betel nut



Saw mill

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	55 %	Sidr and Aila has damaged 23044 ha and 2717 acre respectively
Fisheries	20 %	Fishermen community is major victim of cyclone. Fisherman dies in every big cyclone. People are illiterate; they do not come to coast on time
Business/ Manufacture	12 %	
Service	9 %	
Others	4 %	

(8) Map

- Could you provide map of District/ Upazila/ Union, if any?

The same map is available in website of GoB

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation

stations below? If yes, let us know the name of stations. NO

This upazila does not have Meteorological Observation Station but WDB collect Hydrologic information as per their requirement but the practice is that CPP or DMC does not collect it.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? NO
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

If we can collect information then it will be possible.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Frequently	During rainy season the sea becomes very rough and water level stay higher than other season. There are many isolated island matter of regularly water inundation.
Cyclone	Every year	Small cyclone attacks every year here. Three part of Char Fasson is open to face cyclone. From the deep sea it attacks directly and can easily destroy houses and standing crops.
Tornado	Frequently	This upazila have been facing tornado frequently and there is no early warning system for tornado.
River bank erosion	Every year	The East coast of the Char Fasson has been cracking/erosion every year. Many areas have disappeared already and on the other hand new land is emerging.

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Red-Crescent, Caritas, Coast trust, WFP, Sushilon, Muslim Aid etc.

Barisal office for maintenance. Spare parts are not available, once equipment goes to workshop it never back to CPP volunteer.

- Inter organizational/Stakeholder meeting:
CPP, PIO, realize the importance inter-organizational/Stakeholder meeting but this is not following.
- Drawing/Reviewing/Updating hazard map:
NGO developed hazard map is found in the roadside
- Residents awareness campaign:
A rally is held on the international Disaster day every year
- Residents evacuation drill: No

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

UNO manage budget from district office instantly but it is negligible amount.

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? YES

- Please describe gaps between the SOD and actual activities? If any.
May be there is gap but we work as per our ability and resources.

(1)Number of Human Resources

- How many staffs are mobilized?
Upazilla administration can mobilize enough staff from different agencies as well as NGOs.
- Do you have any regulations/ rules for mobilization of staffs? YES

(2)Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others:
- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? :
CPP receive from control room Dhaka, also from zonal office.
UNO/PIO receive from district office receive from District office (DC, DRRO). Disaster Management Bureau is in charge of distributing the warning to District level.

What is communication means? :

Cell/land phone, HF wireless, and fax (rare)

- Where do you send the warning to? :

CPP send it bottom level i.e. from Upazila to Union level CPP member & volunteer. The DMC of district level and DRR office send it to Upazila level PIO, DMC then upazilla send to union level UP member & DMC.

What is communication means?

Cell phone, VHF wireless, direct communication



Communication tools of CPP in Char Fasson Upazila office

- How long does it take the time usually since receiving till sending?

15-20 minutes

- Contents of warning :

11 levels warning 6 levels warning Others:

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

CPP can communicate one person to another one by cell phone which is very slow. Cell phone is the main communication means at the moment. CPP lack of equipment cannot work in full swing. Most of the warning

equipment is out of order. Radio (good quality) is necessary for unit leader.

- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 95%
- How many percent does Mosque Microphone cover in the area? 70%
- How many percent does commercial/govt. power supply cover the area? 3%
- How many percent do residents have solar power system? 35%

How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 0% AM Radio: 100%

Mobile Phone: 90%

- How many percent do residents have mobile phones? 90%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

Normally SMC (school management committees) are managing the shelter. SMC, particularly headmaster is aware about the role during disaster. NGOs made SCs are managed by itself. SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

At the time of disaster/emergency CPP do not search or rescue but soon after the passing of cyclone we do if it is required. Mainly upazila administration is responsible for rescue. Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard headquarter

is located in Bhola, Government may deploy them to search and rescue activities.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5) Damage Survey:

The survey conducted by UP generally and PIO has a stake in survey. CPP also help in the process. Sometime UNO conducts the validation check and probe the authenticity of data.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parishad or Upazila parishad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. CPP have experience and work to evacuate people. It is not possible to evacuate most people to cyclone shelter.

➤ zoning for each evacuation shelter NO

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are fair
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

UNO/UP request businessmen not sell dry food at disaster stage and ask them for reserve.

(2)Current Condition of shelters

- Number of shelters : Existing: 102 (most of them are good condition)
Plan:
- Total capacity : 25500 Population ratio 102 for 4,56,437 people
- Solo use: 20% Multi use: 80%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO sponsored

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? No Idea
- Do you have obligation to record activities under state of emergency and report it?
Yes, CPP record as much as they can.

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law Union Parisad is responsible to conduct survey. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Items	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead	8	6			
Missing	1	0			
Injured	7	175			
Total Collapse Houses	4749	6125			
Half Collapse Houses	9724	15275			
Total Collapse Dike					
Half Collapse Dike		29 km			
Inundation Area					
Inundation Depth					
Agriculture Damage	23044 ha	2717 acre			
Fisheries Damage	2,84,00000 tk.	2.14 lack tk.			
Livestock	465	4916			
No. of Cyclone Shelter	16	30			
Affected School, College Mosque/ Modir		364			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities never get priority

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs like Red-Crescent, Caritas, Save the children etc.

✓ Alert and Warning Stage:

No adequate logistic to make people alert

Every CPP Unit leader should have Radio

Hand mikes are out of ordered.

✓ Disaster Stage

No vehicle available for rescue

Road become in-accessible at the time of cyclone

Damage survey are manipulated

Access road to shelter are interrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

CPP is ignored at rehabilitation stage

- How many percent of residents did evacuate to shelters? 4%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

People of this Upzila their house with low cost material. The wall and roof are tin made. Weaker wood is used for the structure. It is very vulnerable to strong wind and cyclone. It is our observation that people receive warning, but they are not interested to move from their houses. Since the houses are not cyclone tolerant and it falls down on dweller.

The other reason is the Fishermen do not use or have no life jacket or Radio. Nor the owner of the boat or fishermen buys this equipment. They are not used to use security measures. They think cyclone or strong wind cannot cause any harm to them.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13. 11	3pm	Rec	Upper agency	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	3	-Notice -Recommendation -Order	wireless	speaking	Distance cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper agency	Lower agency	4	notice	wireless	speaking	cautionary		
3	ongoing	14 Nov	9 pm	R/S	Upper agency	Lower agency	6	Notice Recommend	wireless	speaking	evacuate		
4	ongoing	14 Nov	12pm	R/S	Upper agency	Lower agency	7	Notice Recommend	All	speaking			
5	Passing	15 Nov	12 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
6	Passing	14 Nov	6 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- SoD is now a merely a book now, no body read. The risk can be minimized if SoD were followed
- CPP volunteer need intake equipment. Couple of years ago American Red Cross give some equipment (though all are 2nd hand). The equipments are in position of not easy communication, sound are not clear. The central management suppose to procure the logistics and equipment
- Now Govt. provides salary and Red Crescent provides training & equipment. CPP become more or less de-motivated due to the control over issue on CPP management between Govt. and Red-crescent.
- Whatever the cyclone center it has is not enough but the number of KILLA is very few compare to the requirement. In every cyclone it lost huge livestock (buffalo, cow, goat, etc). Since Agriculture is manual based and livestock are destroyed, it causes double damage of resources.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
A. F. M. Bahauddin	UP Chairman	Union council	01748989127
Probir Kumar Dey	UP Secretary	Union council	01733255398
Harun	Member	Union council	01761754006
Sirajul Islam	Unit Team Leader	CPP	01684341030
Abdul Baten	Unit Team leader	CPP	01761101583

(1)Responding Date and Hour

18 / 04 / 2013 (10:00 am – 1:00 pm)

(2)Responding Place: UP, Char Madraj

Interviewer:

Mustafizur Rahman,

Sukhen

Afrina



Meeting With UP Chairman,

2. General Information of Organization (District/ Upazila/ Union)

Name of Organization: DMC, UP & CPP

(1)Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

.

- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management where UP chairman has to play main role. It seems the DMC and CPP are very inactive here.

(2)Number of Human Resources: UP DMC -33, CPP- 165

Quorum: Two third of the member

Enrollment:

(3)Population and Number of Household

Year: 2009 Source: UP database

Population:

Male: 17700

Female: 17300

Total: 35000

Number of Household: 6301

(4)Area

25 Square kilometer

(5)Number of Subordinate Government Agencies: 13

The agencies are not subordinate but this agencies have their office at union level, they have to with coordination of UP some of the agencies are BRDB, Agriculture, education, livestock, LGED, health, Family planning, postal, social welfare, youth development, Bank

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			9
Number of Para			
Number of Polder			1

(6)Outline of Industry

Char Madraj is one of the islands suffering from river bank erosion. A big ice factory is present near to the river bank. Brick production is increasing. Char Madraj has been producing huge amount of timber. The Saw mills are found here and there. People have been living on agriculture, fisheries and service sector. Small trawler are used to fishing which vulnerable to cyclone. One or two poultry farm is found. Char Madraj exports Fish and coconut, betel nut to other area of Bangladesh.



Saw Mill

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	65%	Livestock and agriculture production are damaged in every cyclone. The crop intensity is good. People cannot harvest fully due heavy rain, or cyclone. During Sidr and Cyclone 1991 all the standing crops damaged.
Fisheries	20%	Fishermen community is major victim of cyclone. Two types of fisherman; inland and deep see fisherman. Fisherman dies in every big cyclone.
Business/ Manufacture	10%	
Service	5%	
Others		

(7)Map

- Could you provide map of District/ Upazila/ Union, if any? No

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

The respondent is not sure but thinks BWDB might have hydrologic observation centre.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? No
- If yes, do you have map of these locations or can you put the locations on the map? No
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation	Twice per month	Only the area where water regulator does not work well and outside the polder.
Cyclone	Thrice in 40 years	Most devastating cyclone attacked in 1970 and thousands of people died. At that time no cyclone centre was available & the polder was very weak. People have no place to evacuate. People died like other animal.
River Bank Erosion	Everyday	River erosion is the main disaster or hazard of this union. Some of ward has lost 80% area already due to erosion. Char Newton, char Hamidpur and Char Mohammadpur will be disappear very soon. Many are unprotected; no polder is build after vanished by Meghna river. Many polder areas had to shift twice or thrice. Now new polder is required. Polder is first priority than cyclone centre.

6. Normal Time Activities

No budget is allocated for normal activities. Some international NOGs arrange mock drill, awareness program and training for community people.

6.1 Structural Framework

(1)Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

UP- DMC: 33, CPP-165

(2)Office and Equipments NO separate Office and Equipments

Sole use office room

Equipments :

Desks

File cabinets

Copy machine

Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?

The UP DMC has little idea on disaster management plan. Save the Children USA implemented project couple of year ago and this union was one the working areas. Thank save the children to develop a disaster management plan for this union. The NGOs try to enhance their capacity how to develop and implement a disaster management plan.

- Planning/Reviewing/Updating disaster management plan : NO

- Staff training:

No UP member/Chairman or CPP got training on disaster issue in the last 20 years from government side except some international NGOs. Save the Children provide some training and capacity enhancing program for DMC

- Emergency drill at district/ Upazila/ Union level: NGOs arrange occasionally.

- Equipment maintenance : NO

UP have no equipment for early warning but CPP have some. If the maintenance is required the concern equipment is surrendered to upper CPP they will manage maintenance but the system is very slow and most of the case the equipment are beyond repairable. It is heard that these equipment goes to Barisal office for maintenance and very rare occasion it back to unit office or volunteer.

- Inter organizational/Stakeholder meeting:
- Drawing/Reviewing/Updating hazard map
- Residents awareness campaign: No
- Residents evacuation drill: No



Hazard Map of Char Madraj

6.3 Financial Status:

NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

This Union parisad and CPP have no idea on SoD.

- Please describe gaps between the SOD and actual activities? If any.

(1)Number of Human Resources

- How many staffs are mobilized?
Union parisad can mobilize only themselves and Village Defenses force, ANSWER and some staffs from different agencies.
- Do you have any regulations/ rules for mobilization of staffs?

(2)Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others: Normally UP office is used as emergency head quarter
- Equipments : Desks File cabinets
Copy machine Computers
UPS Internet
TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? :
UP receive message through cell phone from UNO office and CPP receive from control room or CPP upazila office. Upazila-CPP receives from Dhaka control room directly.

What is communication means? : Cell/land phone

- Where do you send the warning to?
The union DMC call meeting send message to community people through public announcement. CPP send it bottom level i.e. from district to upazila to Union level CPP member & volunteer to unit people.

What is communication means?

Cell phone, direct communication but cell phone is widely used. UP

announce to community people by hiring commercial megaphone also

- How long does it take the time usually since receiving till sending?

30 minutes

- Contents of warning :

11 levels warning 6 levels warning Others:

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?
UP warn people by commercial megaphones available in this area. Though Cell phone is main communication means at the moment. CPP lack of equipment cannot work in full swing. Most of the warning equipment is out of order. CPP, UP also use mosque's mike during emergency.
- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 100%
- How many percent does Mosque Microphone cover in the area? 100%
- How many percent does commercial/govt. power supply cover the area?
20%
- How many percent do residents have solar power system? 15%
- How many percent do mobile phone network cover the area? 100%
- How many percent do residents have mobile phones? 95%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
During the disaster local government bodies, CPP, DMC work together. They call an emergency meeting and plan for the evacuation.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

During the disaster local government bodies, CPP, DMC work together. They call an emergency meeting and plan for the evacuation.

(2)Shelter Management:

Normally SMC (school management committees) manage the shelter. School teacher have to go school daily. SMC, particularly headmaster is aware about the responsibility during disaster.

(3)Rescue and Search:

Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very scope to assist the victim. Local administration do not search or rescue but soon after the passing of cyclone it does if it is necessary.

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5)Damage Survey: The survey conducted by UP with CPP involvement

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster we (CPP, UP member, DMC) ask people to take shelter at their nearest one. CPP have experience and work to evacuate people

- zoning for each evacuation shelter NO.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are in good condition
- shelter capacity: 250 persons per cyclone shelter
- storage of food and water, and so on:

UP request businessman not to sell dry food at disaster time and ask them for reserve.



Cyclone Shelter

(2)Current Condition of shelters

- Number of shelters : 3 Existing: 80% good condition Plan:
- Total capacity : 800-900 Population ratio 3 for 35000 people
- Solo use: none Multi use: All
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3) Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Mostly SMC
School management committee generally and school head teacher particularly responsible to maintain the SC. During the disaster time, headmaster opens the door.
- Cost burden : LGED/GoB & NGO sponsored

(4) Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? No idea
- Do you have obligation to record activities under state of emergency and report it? No idea,

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law Union Parisad is responsible to conduct survey. Upazila parisad may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	UNO, UP, CPP, Police	
Private Sector	Building	LGED	
	Agriculture	Agriculture	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Items	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead	05				
Missing					
Injured					
Total Collapse Houses	10%				
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage	15000 acre				
Fisheries Damage					
Livestock					
No. of Cyclone Shelter					
Affected School, College Mosque/ Modir					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr
- Record of activities including time series, if any. YES
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

No Training and awareness program for CPP, DMC or community people.

No mock drill took place for years and budget crisis

✓ Alert and Warning Stage:

No adequate logistic to make people alert or warn

Mosque Mike is very effective to disseminate warning

CPP are not working as they do before.

✓ Disaster Stage

No boat/vehicle for rescue to fishermen

Quick response is not possible

Road become in-accessible at the time of cyclone

✓ Rehabilitation Stage

Quick rehabilitation is not possible

CPP play important role to deal disaster but is not responsible/entitled to rehabilitate activities

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 6%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

It is our observation that people receive warning, maybe it is not well ahead of time but they are not interested to move from their houses. The houses are not cyclone tolerant and it fall down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13.11	3pm	Rec	Upper agency	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	3	-Notice -Recommendation -Order	wireless	speaking	Distance cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper agency	Lower agency	4	notice	wireless	speaking	Cautionary		
3	ongoing	14 Nov	9 pm	R/S	Upper agency	Lower agency	6	Notice Recommend	wireless	speaking	Evacuate		
4	ongoing	14 Nov	12pm	R/S	Upper agency	Lower agency	7	Notice Recommend	All	speaking			
5	Passing	15 Nov	12 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
6	Passing	14 Nov	6 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- Three wards under Char Madraj named Char Neuton, Char Mohammadpur & Hamidpur have lost 40% due to erosion. Half of Char Neuton have gone under the river and another island has lost one fourth of the total land. The polder should be built $\frac{1}{2}$ km away from the river.
- Peoples didn't come in the shelter previously leaving the different resource in the house. Now that tendency is reduced.
- The meetings are not held regularly. The member secretary of DMC (up secretary) is not regular. No DMC meeting minutes are found. One of NGOs has developed disaster plan two year ago.
- The polder was sifted 7-8 times in east side.
- Mock drill was done in 2008 at the school field from *Gibon O Gibika* (NGO).
- Union parisad DMC has no equipment. In last cyclone the volunteers and UP chairman was used track for rescue the affected peoples.
- CPP team leaders and volunteers had got their training about 15 years ago.
- It can be possible to cover 100% by using hand siren and megaphone.
- There is no storage for dry food.



River Bank Errosion Site vissiting

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Abul Kalam	Chairman	Union Parisad	01725540178
Md. Mokammel Haque	AD	CPP	01718200230
Md. Mostafij	UP member	Union Parisad	01730199117
Md. Saiful Islam	UP member	Union Parisad	01722479011
Md Mostafijur Rahman	UP member	Union Parisad	01730188752

(1) Responding Date and Hour

17 / 04 / 2013, (11.30 am – 1:00 pm)

(2) Responding Place: Dhal Char Union parisad office, Dhal Char

(3) Interviewer: Mustafizur Rahman

Sukhen & Afrin



Meeting in union
parisad

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization: Union parisad

(2) Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management. UP themselves with village police and CPP unit team leader and volunteer deal the disaster.

(3)Number of Human Resources: UP DMC -21, CPP- 90

Quorum: two third of the member Enrollment:

(4)Population and Number of Household

Year: 2009 Source: UP database, Dhal Char

Population:

Male: 11,500 Female: 10,5000 Total: 22,000

Number of Household: 4500

(5)Area

120 Square kilometer

(6)Number of Subordinate Government Agencies: 6

Let us know the number of subordinate government agencies.

Twenty thousand people have been living here and the number is comparatively fewer than other union. Govt. agency's as well as the NGO's are not want to come and stay here due to lack of accommodations, and transportation. In fact the secretary of this union is also stay in Char Fasson upazila.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			9
Number of Para			
Number of Polder			No polder

(7)Outline of Industry

Dhal Char union is surrounded by big river by all side. No industry is found. From the beginning fishing was main livelihood of the early settler. Now people also do agriculture activities but most of the land is collapsed by saline water. The main crop is rice in only one season. Some winter crops like some variety of pulse, chilies, potato, sweet potato and linseed can be cultivated but this can't meet their needs. They have to be depending for other needs on far upazila/union. Fish is the main income earning and they often make to going very deep sea.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	5%	Dhal Char is a newly silted island. The island has no polder that's way saline water easily entered into it and the farmers cannot grow any crops except one season etc. Only 5% of peoples are farmer.
Fisheries	90%	This island is basically known as village Fishermen. Actually the fisherman's are invented this island. The availability of fishes is high in this island that's way people's are come here and spend their lives. They have nothing to do except fishing. Fisherman dies in every big cyclone. People are illiterate; they do not come to coast as availability of more fish during cyclone.
Others	5%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

NO

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? N/A
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		As the Dhal Char union is located in far south of Bhola district, whenever sea level is raised the land is easily go under flood.
Flash flood	No	
Inside water inundation	Every month	The island is inundated twice in every month during full moon and dark fortnight. The inclusion of saline water hinders to grow crops.
Cyclone	Every year	Cyclone easily attack on this island. All the surrounding area is open. From the deep sea it attacks directly. So cyclone can easily destroy houses and houses are built in area very weaker manner. Cyclone attack such a way that the leaves are become isolated from the branch. This island is very much destroyed in 1970's and 1991.
Tornado	More or less every year	They are facing tornado frequently and there is no early warning system for tornado.
River bank erosion	Everyday	The north coast of the Dhal Char has been cracking/erosion every year.

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Red-Crescent, Save the children, Coast trust, Sushilon, Muslim Aid etc.

6. Normal Time Activities

No budget is allocated for normal activities. Disaster management bureau has arranged one Mock dill in Dhal Char last year. Some national and international NGOs have implemented awareness program and training for community people.

6.1 Structural Framework

(1)Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

(2)Office and Equipments

Sole use office room

Equipments :	Desks	File cabinets
	Copy machine	Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?
UP has no PLAN
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:

No UP member/Chairman or CPP got training on disaster issue since last ten years. New volunteer did not receive any training so far. CPP could not remember when last training was arranged. No refresher training is provided since couple of years.

- Emergency drill at district/ Upazila/ Union level: Once in a year by CPP
- Equipment maintenance :

CPP has to inform and give requisition for maintenance. Spare parts are not available, once equipment goes to workshop it never back to CPP volunteer. UP have no equipment for early warning but CPP have some. If the maintenance is required the concern equipment is surrendered to upzila-CPP. It is heard that these equipment goes to Barisal office for maintenance and very rare occasion it back to unit office or volunteer.

- Inter organizational/Stakeholder meeting: NO
- Drawing/Reviewing/Updating hazard map: No
- Residents awareness campaign: No
- Residents evacuation drill: No

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

Even they have no budget to evacuate people. Chairman has to spend money from his personal source.

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
Union parisad and union CPP have no idea on SoD.
- Please describe gaps between the SOD and actual activities? If any.

(1)Number of Human Resources

- How many staffs are mobilized?
Only DMC and CPP members are mobilized.
- Do you have any regulations/ rules for mobilization of staffs? No idea

(2)Office and Equipments

(No particular office and equipment for state of emergency or emergency time

and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others: UP
- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? :
UP receive message through cell phone from UNO office and CPP receive from control room or CPP upazila office. Upazila-CPP receives from Dhaka control room directly.

What is communication means? :

Cell/land phone & VHF wireless.

- Where do you send the warning to? :
The union DMC call meeting, send message to community people through public announcement. Union level CPP member & volunteer send message to the community people.

What is communication means?

Cell phone, VHF wireless and by walk.

- How long does it take the time usually since receiving till sending?
25 minutes
- Contents of warning :
11 levels warning 6 levels warning Others:

To warn people is the main concern of warning content of warning level 4.
The content of warning level 5 or more is to ask people to take shelter and

content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents?
The local issues are ignored in current warning system.
- Do you have any issues and problems regarding communication method?
Communication to community people is not a problem rather CPP/UP cannot ask people to take shelter to SC due to lack of space. We can communicate one person to another one by cell phone. Cell phone is main communication means at the moment. CPP cannot work in full swing lack of equipment. Most of the warning equipment is out of order.
Radio (good quality) is necessary for unit leader.
- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 100%
- How many percent does Mosque Microphone cover in the area? 100%
- How many percent does commercial/govt. power supply cover the area?
No (0%)
- How many percent do residents have solar power system? 15%
- How many percent do information infrastructures below cover the area?
TV Network: FM Radio: 0% AM Radio: 100%
Mobile Phone: 90%
- How many percent do mobile phone network cover the area? 100%
- How many percent do residents have TV in the area? No idea
- How many percent do residents listen to Radio? 7%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.



Warning equipments in Dhal Char Union

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers. The agency who has constructed the centre is managing the SC now.

(3)Rescue and Search:

At the time of disaster/emergency CPP do not search or rescue but soon after the passing of cyclone it does if it is required. Mainly upazila administration is responsible for rescue. Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard headquarter is located in Bhola, they might use to search and rescue activities.

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGOs play important role and work together to help the sufferer.

(5)Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and government official scrutinizes.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation. UP can spend few from GR fund.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

Dalchar is union without polder. It is not possible to evacuate most people to cyclone shelter. The island is very long. Distance to SC is very long. During the disaster CPP, UP ask people to take shelter at their nearest one. CPP have experience and work to evacuate people.

- zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The literacy rate of Dhal Char is very low. The Dhal Char is an island without Polder.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are bad.
- shelter capacity: 200-250 persons per cyclone shelter & some are collapsed.
- storage of food and water, and so on:

Generally there is no dry food storage at normal time in the SC. The dry food is available in local market and be meet for 1 or 2 days. UP request businessman not sells dry food at disaster stage and ask them for reserve.

(2)Current Condition of shelters

- Number of shelters : 7 Existing: (Few of them are good condition) Plan:
- Total capacity : 15,00 Population ratio 5 for 20,000 people

- Solo use: 60% Multi use: 40%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3) Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO sponsored

(4) Shelter Management Manual

- Do you have a shelter management manual? NO



Cyclone Shelter in Dhal Char union

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? No Idea
- Do you have obligation to record activities under state of emergency and report it?
Yes, CPP record as much as they can.

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law, Union Parisad is responsible to conduct survey. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required.
It is unfortunate in Bhola no UP has kept record of damage database (the D-form)
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records (UP could not provide following information. The given information is valid for Monpura upazila)

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
Poultry					
Prawn					
Affected Mosque/Mondir					
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

Normal activities never get priority

New volunteer did not receive any training so far

CPP/UP cannot arrange normal activity due to budget crisis.

- ✓ Alert and Warning Stage:

Fishermen community remain out of communication

No adequate logistic to make people alert

Every CPP Unit leader should have Radio

Hand mikes are out of ordered.

- ✓ Disaster Stage

No vehicle for rescue to fishermen, they have no life jacket.

Quick response is not possible

People have few space to take shelter

- ✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle and abuse of fund is also a fact.

Rehabilitation is ignore issue.

- How many percent of residents did evacuate to shelters? 1%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

The island is extremely unprotected. There is no Polder; water washed away everything within hours. It is difficult to take shelter to SC. Everything is very vulnerable to strong wind and cyclone and houses are not cyclone tolerant.

Fishermen do not use or have no life jacket or Radio. In many occasion they could not come back to the coast.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13-11	3pm	Rec	Upper-agency Lower Agency Other Agency NGOs Residents Public Media	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order	wireless	speaking	Distance-cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	-4	-notice	wireless	speaking	cautionary		—
3	ongoing	14 Nov	9 pm	R/S	Upper-agency	Lower-agency	-6	Notice Recommend	wireless	speaking	evacuate		—
4	ongoing	14 Nov	12pm	R/S	Upper-agency	Lower-agency	-7	Notice Recommend	All	speaking			—
5	Passing	15-Nov	12 pm	R/S	Upper-agency	Lower-agency	-10	Notice Recommend Order	All means	speaking		—	—
6	Passing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	-10	Notice Recommend Order	All means	speaking		—	—
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- The necessity of polder, killa, and cyclone shelter & rescue boat in Dhal Char is very urgent. Whatever the cyclone center it has is not enough but there is no Killa. In every cyclone it lost huge livestock (buffalo, cow, goat, etc). No livestock was alive in 1991 cyclone.
- Dhal Char Island is situated in far south in Bangladesh. This island is very prone to cyclone. This island is surrounded by Bay. There is no polder. In the year 1970, 1991 & 1997 causes devastating damage of life and wealth. Especially a remarkable event occurred by the cyclone in 1970, only one family is remaining in Dhal Char union. The worst damage happen in 1991, half of the population is affected. Some of them are dead, and some are missing. The dead bodies are floating many days. All livestock's are lost. The peoples of the Dhal Char are living in this unprotected island such a manner that their life is like a straw.
- As an isolated union the transport & communication system is very risky. The only means of transport is the trawlers and small boat. Speed boat is used occasionally because it is very risky under bad weather. Official boat goes once in day to Dalchar.
- Wind speed is very fast here. It directly comes from the sea and can attack directly to island. We found many tree uprooted and houses demolished.
- CPP we cannot evacuate people to cyclone shelter. The island is very long. Access to SC goes under water during cyclone. Some cyclone shelters are not in a position to use.



Damaged wall by saline water



Using Solar system



Unprotected bridge

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Md Zakir Hosain	UNO	UNO office	01712611896
Opurba Das	PIO	PIO office	01723557435
Abul Kashem Mia	UP Chairman	Union Parisad	01712054014
Hedaetullah Mintu	UP Chairman	Union Parisad	01740842729
Md. Mokammel Haque	AD	CPP	01718200230

(1)Responding Date and Hour

11 / 04 / 2013 (10:00am – 1:00pm)

(2)Responding Place: UNO & WDB office, Lalmohon

(3)Interviewer: Mustafizur Rahman, Sukhen & Afrin



Meeting with UNO



Meeting with PIO



Meeting with SDE of
BWDB

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization; upazila parisad

(2)Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

Upazila Disaster Management Committee, PIO and CPP office are responsible for disaster management at upazila level. Upazilla chairman works as adviser at upazila level. During disaster, coordination among different unit headed buy UNO takes place. CPP and PIO play an important role to manage the disaster.

(3)Number of Human Resources: UP DMC -36, PIO-2, CPP-

Quorum: Two third of the member Enrollment:

(4)Population and Number of Household

Year: 2011 Source: BBS

Population:

Male: 1,38,877 Female: 1,45,012 Total: 2,83,889

Number of Household: 60,988

(5)Area

396.24 Square kilometer

(6)Number of Subordinate Government Agencies: 33

Let us know the number of subordinate government agencies.

The agencies are not subordinate but this agencies have their office at thana/upazila level. One unit from every ministry should have existence at upazila level. Upazila parisad/ UNO are in charge of coordination among the agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		9	
Number of Gram		78	
Number of Para			
Number of Polder		1 (56/57)	

(7)Outline of Industry

Lalmohon has been producing huge amount of timber. The Saw mills are found here and there. People have been living on agriculture, fisheries and service

sector. Agriculture and fish culture are manual based. Lalmohon exports Fish and coconut, betel-nut to other area mainly in Dhaka of Bangladesh. The main crop is rice with some winter crop pulse, chilies etc. Besides Coconut, betel-nut has been producing.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	60 %	Land of Lalmohon is very fertile and the crop intensity is more than two. Whenever cyclone attack it finds standing crop
Fisheries	15 %	Fishermen community is major victim of cyclone. Fisherman dies in every big cyclone. People are illiterate; they do not come to coast on time
Business/ Manufacture	12 %	
Service	9 %	
Others	4 %	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

The same map is available in website of GoB

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. NO

This upazila does not have Meteorological Observation Station but WDB collect Hydrologic information as per their requirement but the practice is that CPP or DMC does not collect it.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? NO
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

If we can collect information then it will be possible.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Frequently	During rainy season the sea becomes very rough and water level stay higher than other season. Many areas are inundated during rainy season particularly low land
Cyclone	Every year	Small cyclone attacks every year here. The east coast is open to face cyclone. From the deep sea it attacks directly and can easily destroy houses and standing crops.
Tornado	Frequently	This upazila have been facing tornado frequently and there is no early warning system for tornado.
River bank erosion	Every year	The East coast has been cracking/erosion every year. Many areas have disappeared already.



River bank erosion

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Red-Crescent, Caritas, Coast trust, WFP, Sushilon, Muslim Aid etc.

Barisal office for maintenance. Spare parts are not available, once equipment goes to workshop it never back to CPP volunteer.

- Inter organizational/Stakeholder meeting:
CPP, PIO, realize the importance of inter-organizational/Stakeholder meeting but this is not following.
- Drawing/Reviewing/Updating hazard map:
NGO developed hazard map is found Doligour Nagar Union of Lalmohon upazila
- Residents awareness campaign:
A rally is held on the international Disaster day every year
- Residents evacuation drill: No

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

UNO manage budget from district office instantly but it is negligible amount.

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? YES

volunteer. The DMC of district level and DRR office send it to Upazila level PIO, DMC then upazilla send to union level UP member & DMC.

What is communication means?

Cell phone, VHF wireless, direct communication



- How long does it take the time usually since receiving till sending?
15-20 minutes

- Contents of warning :

11 levels warning 6 levels warning Others:

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?
Cell phone is the main communication means at the moment. CPP lack of equipment cannot work in full swing. Most of the warning equipment is out of order. Radio (good quality) is necessary for unit leader.
- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 95%
- How many percent does Mosque Microphone cover in the area? 80%

- How many percent does commercial/govt. power supply cover the area? 5%
- How many percent do residents have solar power system? 25%

How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 0% AM Radio: 100%

Mobile Phone: 90%

- How many percent do residents have mobile phones? 90%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

Normally SMC (school management committees) are managing the shelter. SMC, particularly headmaster is aware about the role during disaster. NGOs made SCs are managed by itself. SMCs are managing only those are school cum cyclone centers.

(3) Rescue and Search:

At the time of disaster/emergency CPP do not search or rescue but soon after the passing of cyclone we do if it is required. Mainly upazila administration is responsible for rescue. Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard headquarter is located in Bhola, Government may deploy them to search and rescue activities.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich

people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5)Damage Survey:

The survey conducted by UP generally and PIO has a stake in survey. CPP also help in the process. Sometime UNO conducts the validation check and probe the authenticity of data.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. CPP have experience and work to evacuate people. It is not possible to evacuate most people to cyclone shelter.

- zoning for each evacuation shelter NO

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are fair
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

UNO/UP request businessmen not sell dry food at disaster stage and ask

them for reserve.

(2)Current Condition of shelters

- Number of shelters : Existing: 124 (most of them are good condition)

Plan:

Total capacity : 31500

Population ratio 124 for 2,83,889 people

- Solo use: 20% Multi use: 80%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO sponsored

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? No
Idea
- Do you have obligation to record activities under state of emergency and report it?
Yes, CPP record as much as they can.

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law Union Parisad is responsible to conduct survey. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Items	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead	2	2			
Missing	0	0			
Injured	50	1			
Total Collapse Houses	1493	1725			
Half Collapse Houses	2001	2320			
Total Collapse Dike					
Half Collapse Dike		22 km			
Inundation Area					
Inundation Depth					
Agriculture Damage	7009 ha	2400 acre			
Fisheries Damage	32,00,000 tk.	0			
Livestock	155	0			
No. of Cyclone Shelter	3	20			
Affected School, College Mosque/ Modir	324	0			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities never get priority

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs

✓ Alert and Warning Stage:

No adequate logistic to make people alert

Every CPP Unit leader should have Radio

Hand mikes are out of ordered.

✓ Disaster Stage

No vehicle available for rescue

Road become in-accessible at the time of cyclone

Damage survey are manipulated

Access road to shelter are interrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

CPP is ignored at rehabilitation stage

- How many percent of residents did evacuate to shelters? 8%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

People of this Upzila their house with low cost material. The wall and roof are tin made. Weaker wood is used for the structure. It is very vulnerable to strong wind and cyclone. It is our observation that people receive warning, but they are not interested to move from their houses. Since the houses are not cyclone tolerant and it falls down on dweller.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13. 11	3pm	Rec	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order	wireless	speaking	Distance cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper agency	Lower agency	4	notice	wireless	speaking	cautionary		
3	ongoing	14 Nov	9 pm	R/S	Upper agency	Lower agency	6	Notice Recommend	wireless	speaking	evacuate		
4	ongoing	14 Nov	12pm	R/S	Upper agency	Lower agency	7	Notice Recommend	All	speaking			
5	Passing	15 Nov	12 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
6	Passing	14 Nov	6 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- CPP volunteer need intake equipment. Couple of years ago American Red Cross give some equipment (though all are 2nd hand). The equipments are in position of not easy communication, sound are not clear. The central management suppose to procure the logistics and equipment
- Now Govt. provides salary and Red Crescent provides training & equipment. CPP become more or less de-motivated due to the control over issue on CPP management between Govt. and Red-crescent.
- SoD is now a merely a book now, no body read. The risk can be minimized it SoD were followed

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Hedaetullah Mintu	UP Chairmman	Union Parisad	01740842729
Md. Mokammal Haque	AD	CPP	01718200230
Johor lal Das	UP Secretary	Union Parisad	01748975460
Abusufian Joshim	UP member	Union Parisad	01747101781
Parul Begum	UP member	Union Parisad	01770663615
Humaun kabir	Dholigour Govt. Primary School	Head Teacher	01712898637
Md. Amranul Haque	Union Team leader	CPP	01716648178
Md. Shamrud	Unit Team leader	CPP	01748940036

(1) Responding Date and Hour

14 / 04 / 2013 (11:00am – 1:00 pm)

(2) Responding Place:

Dholigour Nagar union parisad
(Mongol Sikder bazaar)

(3) Interviewer:

Mustafizur Rahman,
Sukhen & Hashan



2. General Information of Organization (District/ Upazila/ Union)

Name of Organization; DMC, UP & CPP

(1) Organization Chart

- Could you provide the latest organization chart? if any.
The office could not provide Organization chart but know the organ gram.
- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management. UP themselves with village police and CPP with unit team leader and volunteer deal the disaster.

(2) Number of Human Resources: UP DMC -32, CPP- 300

Quorum: One third of the member

Enrollment:

(3) Population and Number of Household

Year: 2009 Source: UP database

Population:

Male: 26,750 Female: 25,000 Total: 51,750 (now 59,000)

Number of Household: 8100

(4) Area

56 Square kilometer

(5) Number of Subordinate Government Agencies: 13

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			11
Number of Para/ mouza			9
Number of Polder			1

(6) Outline of Industry

Dholigour Nagar is one of the biggest unions of Lalmohon Upazila. From the beginning fishing and agriculture was main livelihood of the early settler. Coconut, betel-nut has been producing widely besides Rain tree are grown as timber. The Saw mills are found here and there. Fish and coconut, betel-nut are exported from here to other area of Bangladesh.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	42 %	More than 50% people live on agriculture. The east coast of this union have been facing river erosion. Agriculture is the main victim of disaster.
Fisheries	18 %	Fishermen community is major victim of cyclone. Two types of fisherman; inland and deep see fisherman. Fisher dies in every big cyclone.

Business/ Manufacture	17%	
Service	13%	
Others	10%	

(7)Map

- Could you provide map of District/ Upazila/ Union, if any? YES

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. NO

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? NO
- If yes, do you have map of these locations or can you put the locations on the map? N/A
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station? N/A

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone		Most devastating cyclone attacked in 1970 and 2000 people died. Another Tornado attacked 22, march 2007 and 4 people died and many house fully damaged.
River bank erosion	Daily	The Mehna river damages the east coast of this union daily. The wards (ward # 1, 2, 3, 4, 6, 7) are facing river bank erosion. 20% of area had gone into river. People have displace in different location

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: District administration

B: Disaster Relief & Rehabilitation Office H: LGED

C: CPP I: PIO

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,F	D, H	C,A,F	E,F	F	I,F	E	C,E
Gram									
Para									
Individual									
CPP									

NGO= Red-Crescent, Save the children Coast trust etc.

6. Normal Time Activities

No budget is allocated for normal activities. Some international NOGs arrange mock drill, awareness program and training for community people.

6.1 Structural Framework

(1)Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

UP- DMC: 32, CPP-300

(2)Office and Equipments NO separate Office and Equipments

Sole use office room

Equipments :

Desks

File cabinets

Copy machine

Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? YES

The UP DMC has little idea on disaster management plan. Save the Children USA implemented project couple of year ago and this union was one the working areas. Thank save the children to develop a disaster management plan for this union. The NGOs try to enhance their capacity how to develop and implement a disaster management plan.

- Planning/Reviewing/Updating disaster management plan : NO

- Staff training:

No UP member/Chairman or CPP got training on disaster issue in the last 20 years from government side except some international NGOs. Save the Children provide some training and capacity enhancing program for DMC

- Emergency drill at district/ Upazila/ Union level:

NGOs arrange occasionally.

- Equipment maintenance :

UP have no equipment for early warning but CPP have some. If the

maintenance is required the concern equipment is surrendered to upper CPP they will manage maintenance but the system is very slow and most of the case the equipment are beyond repairable.

- Inter organizational/Stakeholder meeting: only at disaster time.
- Drawing/Reviewing/Updating hazard map:
- Residents awareness campaign: No
- Residents evacuation drill: No



Hazard map for Dholigour Nagar

6.3 Financial Status:

NO budget except disaster/emergency time. Chairman expense from own pocket

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

This Union parisad and CPP have no idea on SoD.

- Please describe gaps between the SOD and actual activities? If any.

SoD is not followed but they work as per their ability and resources.

(1)Number of Human Resources

- How many staffs are mobilized?
Union parisad can mobilize only themselves and Village Defenses force, ANSWER and some staffs from different agencies as well as NGOs.
- Do you have any regulations/ rules for mobilization of staffs? YES

(2)Office and Equipments

CPP or UP have NO own structure/building now. A new building is under construction for union parisad. UP have been working in a rented building for years.

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others: Normally UP or CPP office is used as emergency head quarter
- Equipments : Desks File cabinets
Copy machine Computers
UPS Internet
TV set Radio receiver
(The detailed information is given in DMICI form)

7.2 Warning

(1)Warning

- Where do you receive the warning form? :
UP receive message through cell phone from UNO office and CPP receive from control room or CPP upazila office.

What is communication means? :

Cell/land phone, HF wireless, direct communication/ by walk

- Where do you send the warning to?
The union DMC call meeting send message to community people through public announcement. Union level CPP member & volunteer to community people.

What is communication means?

Cell phone, direct communication is recently. CPP hoist signal flag use megaphone. UP announce to community people by hiring commercial megaphone also.

- How long does it take the time usually since receiving till sending?
25 minutes
- Contents of warning :
4+ levels warning:
Take shelter in cyclone centre, evacuate as soon as possible, and ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc. keep dry food.
- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?
UP warn people by commercial megaphones available in this area. Though Cell phone is main communication means at the moment. CPP lack of equipment cannot work in full swing. Most of the warning equipment is out of order. CPP, UP also use mosque's mike during emergency.
- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 97%
- How many percent does Mosque Microphone cover in the area? 80%
This union has 38 Mosques
- How many percent does commercial/govt. power supply cover the area?
10% (have 23 km power line)
- How many percent do residents have solar power system? 7%
- How many percent do mobile phone network cover the area? 95%
- How many percent do residents have mobile phones? 91%
- How many percent do residents have TV in the area? 10%
- How many percent do residents listen to Radio? 8%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
UNO with upazila DMC, PIO and CPP issue warning and evacuation order.

Other downward agencies are instructed to follow the order.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

During the disaster local government bodies, CPP, DMC work together. They call an emergency meeting and plan for the evacuation.

(2)Shelter Management:

Normally SMC (school management committees) manage the shelter. SMCs have regular activities. School teacher have to go school daily. SMC, particularly headmaster is aware about the role during disaster. People (PIO, SMC) think it is better to keep the authority to SMC but CPP member can be included in SC management committee.

(3)Rescue and Search:

Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very scope to assist the victim. Local administration do not search or rescue but soon after the passing of cyclone it does if it is necessary.

Bangladesh Coast guard headquarter is located in Bhola, they might use to search and rescue activities

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5)Damage Survey: The survey conducted by UP with CPP involvement

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parishad or Upazila parishad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster we ask people to take shelter at their nearest one. CPP have experience and work to evacuate people

- zoning for each evacuation shelter

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are in good condition
- shelter capacity: 350 (average) persons per cyclone shelter
- storage of food and water, and so on: YES

UP request businessman not sell dry food at disaster stage and ask them for reserve.

(2)Current Condition of shelters

- Number of shelters : 23 Existing: 75% good condition Plan:
- Total capacity : 7000 Population ratio 23 for 52000 people
- Solo use: none Multi use: All
- Other purposes of multiuse shelter: shelter cum primary school & religious school
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB

- Operation/ Management : Mostly SMC

School management committee generally and school head teacher particularly responsible to maintain the SC. During the disaster time, headmaster opens the door. CPP and Union Parishad take control over the shelter. Dholigour Nagar union have many registered school that are declare cyclone shelter during cyclone.

- Cost burden : LGED/GoB & NGO sponsored

(4) Shelter Management Manual

- Do you have a shelter management manual? NO



Cyclone Shelter

Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it? No idea
- Do you have obligation to record activities under state of emergency and report it? No idea, perhaps YES

(6) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law Union Parisad is responsible to conduct survey. Upazila parisad may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required.
It is unfortunate in Bhola no UP has kept record of damage database (the D-form)
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	UNO, UP, CPP, Police	
Private Sector	Building	LGED	
	Agriculture	Agriculture	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

(UP could not provide following information)

Items	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	220	190			
Highest Sea Level					
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
No. of Cyclone Shelter					
Affected School, College Mosque/ Modir					
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

No Training and awareness program for CPP, DMC or community people.

NGOs like Red-Crescent, Caritas, Save the children etc. have few activities on disaster

No mock drill took place for years and budget crisis

✓ Alert and Warning Stage:

No adequate logistic to make people alert or warn

Mosque Mike is very effective to disseminate warning

It is difficult to mobilize people to CS

CPP are not working as they do before.

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

✓ Rehabilitation Stage

Quick rehabilitation is not possible

CPP play important role to deal disaster but is not responsible/entitled to rehabilitate activities

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 5%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

It is our observation that people receive warning, maybe it is not well ahead of time and CPP motivated enough. Many people is not interested to move from their houses. The houses are not cyclone tolerant and it fall down on dweller.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13-11	3pm	Rec	Upper-agency Lower Agency Other Agency NGOs Residents Public Media	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order	wireless	speaking	Distance-cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	-4	-notice	wireless	speaking	Cautionary		
3	ongoing	14 Nov	9 pm	R/S	Upper-agency	Lower-agency	-6	Notice Recommend	wireless	speaking	Evacuate		
4	ongoing	14 Nov	12pm	R/S	Upper-agency	Lower-agency	-7	Notice Recommend	All	speaking			
5	Passing	15-Nov	12 pm	R/S	Upper-agency	Lower-agency	-10	Notice Recommend order	All means	speaking			
6	Passing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	-10	Notice Recommend order	All means	speaking			
7													
8													
9													
10													
11													

11. Others

Please describe other issues and problems or important information.

- Warning system has improved now than 10 years before. Now people believe that cyclone will attack. People become alert as have harsh experience. There are several big cyclone attacked here within 20 to 30 years. Now they are more alert.
- Now people go to SC. During last Sidr, people broke the lock and get into the shelter
- CPP do need good conditioned equipment, they need not money. Most of the equipment is very old and many are out of order. They cannot deal the disaster efficiently with this equipment.
- CPP can reach to community people within half an hour whereas it takes more than two hour before.
- People are not happy with CPP's performances. Some CPP volunteer move different area due to smash up their resident by river erosion. CPP could not replace the same number of volunteer.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Abul kashem Miah	Chairman	Union Parisad	01712054014
Suronjitt Das	Secretary	Union Parisad	01715910216
Mofajjol Hyder	Unit team leader	CPP	01724495305
Md. Salauddin	MUP	CPP	01727022454
Arsad	Volunteer	CPP	01849231048

(1) Responding Date and Hour

11 / 04 / 2013, (4.00- 6.15) pm

(2) Responding Place: Lord Harding Union parisad, Lalmohon

(3) Interviewer: Mustafizur Rahman

Sukhen & Afrin



Meeting in union parisad

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization: Union parisad

(2) Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster

management. UP themselves with village police and CPP unit team leader and volunteer deal the disaster.

(3)Number of Human Resources: UP DMC -36, CPP- 155

Quorum: Two third of the member Enrollment:

(4)Population and Number of Household

Year: 2009 Source: UP database, Lord Harding

Population:

Male: 18,000 Female: 17,000 Total: 35,000

Number of Household: 7000

(5)Area

70 Square kilometer

(6)Number of Subordinate Government Agencies: 14

Let us know the number of subordinate government agencies.

The agencies are not subordinate but this agencies have their office at union level, they have to with coordination of UP some of the agencies are BRDB, Agriculture, education, livestock, LGED, health, Family planning, postal, social welfare, youth development, Bank

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			5
Number of Para			9
Number of Polder			1 (58/1)

(7)Outline of Industry

Lord Harding union is surrounded by big river by east and north side. From the beginning fishing was main livelihood of the early settler. Now people also do agriculture activities; the main crop is rice with some winter crop pulse, chilies. Fish is the main income earning even today and they often make to going very deep sea.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	44%	Livestock and agriculture production are damaged in every cyclone. The crop intensity is good. People cannot harvest fully due heavy rain, or cyclone. During Sidr and Cyclone 1991 all the standing crops damaged.
Fisheries	45%	Fishermen community is major victim of cyclone. Fisherman dies in every big cyclone. People are illiterate; they do not come to coast as availability of more fish during cyclone.
Business/ Manufacture	8 %	
Service	2 %	
Others	1%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?
NO

3. Meteorological/ Hydrologic Observation Station:

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. NO

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? N/A
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?
If the information is available then it will be possible.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Regularly and twice in every month particularly	Two isolated island of this union have been suffering regular inundation. The villages near to the river go under water in every high tide during full moon or the opposite. East part of the lord Harding union will be disappearing very soon. During rainy season the sea becomes very rough and water level increase.
Cyclone	Every year	Cyclone easily attack on this island. All the surrounding area is open. From the deep sea it attacks directly. So cyclone can easily destroy houses and houses are built in area very weaker manner. Wind speed is very fast here. It directly comes from the sea and can attack directly to island. We found many tree uprooted and house demolished.
Tornado	More or less every year	They are faces tornado frequently and there is no early warning system for tornado.
River bank erosion	Everyday	Old polder has to shift twice due to erosion and polder is open in 4 or places/point.

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Red-Crescent, Caritas, Coast trust, WFP, Muslim Aid etc.

6. Normal Time Activities

No budget is allocated for normal activities. Disaster management bureau has arranged to Mock dill in Lord Harding last year. Some national and international NGOs have implemented awareness program and training for community people.

6.1 Structural Framework

(1)Number of Human Resources

NO separate Office and Equipments

Full-time:

Part-time:

(2)Office and Equipments

Sole use office room

Equipments :	Desks	File cabinets
	Copy machine	Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?

It is heard that Save the Children USA implemented project couple of year ago and this union was one the working areas. The above mentioned NGO have developed a disaster management plan for this union. The NGOs try to enhance their capacity how to develop and implement a disaster management plan.

- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:

No UP member/Chairman or CPP got training on disaster issue since last five years. New volunteer did not receive any training so far. CPP could not remember when last training was arranged. No refresher training is provided since couple of years.

- Emergency drill at district/ Upazila/ Union level: Once in a year by CPP
- Equipment maintenance :

CPP has to inform and give requisition for maintenance. UP have no equipment for early warning but CPP have some. If the maintenance is required the concern equipment is surrendered to upzila-CPP. It is heard that these equipment goes to Barisal office for maintenance and very rare occasion it back to unit office or volunteer.

- Inter organizational/Stakeholder meeting: NO except with CPP
- Drawing/Reviewing/Updating hazard map: No
- Residents awareness campaign:
UP arranges rally on internal Disaster Day once in a year with other stakeholder
- Residents evacuation drill: No

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

Even they have no budget to evacuate people. Chairman has to spend money from his personal source.

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
Union parisad and union CPP have no idea on SoD.

- Where do you send the warning to? :

The union DMC call meeting, send message to community people through public announcement. Union level CPP member & volunteer send message to the community people.

What is communication means?

Cell phone, direct communication

- How long does it take the time usually since receiving till sending?

15 minutes

- Contents of warning :

11 levels warning 6 levels warning Others:

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents?

NO

- Do you have any issues and problems regarding communication method?

Cell phone is main communication means at the moment. CPP cannot work in full swing lack of equipment. Most of the warning equipment is out of order. Radio (good quality) is necessary for unit leader.

- Do you have communication radio in the district/ upazila/ unit? NO

- How many percent does mobile phone cover in the area? 96%

- How many percent does Mosque Microphone cover in the area? 90%

- How many percent does commercial/govt. power supply cover the area? 5%

- How many percent do residents have solar power system? 25%

- How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 0% AM Radio: 100%

Mobile Phone: 90%

- How many percent do residents have TV in the area? 8%

- How many percent do residents listen to Radio? 5%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers. Caritas made SCs are managed by itself. The agency who has constructed the centre is managing the SC now.

(3) Rescue and Search:

Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard headquarter is located in Bhola, they might use to search and rescue activities.

(4) Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGOs play important role and work together to help the sufferer.

(5) Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and government official scrutinizes.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation. UP can spend few from GR fund.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. CPP have experience and work to evacuate people.

- zoning for each evacuation shelter NO

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not bad.
- shelter capacity: 250-300 persons per cyclone shelter
- storage of food and water, and so on:

Generally there is no dry food storage at normal time in the SC. The dry food is available in local market and be meet for 2/3 days. UP request businessman not sells dry food at disaster stage and ask them for reserve.

(2)Current Condition of shelters

The cyclone shelters are lack of sanitation, it has no capacity to store dry food.

- Number of shelters : 7 Existing: (most of them are good condition) Plan:
- Total capacity : 1750 Population ratio 7 for 35,000 people
- Solo use: 50% Multi use: 50%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3) Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO sponsored

(4) Shelter Management Manual

- Do you have a shelter management manual? NO



Killa in Lord Harding union under construction

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? No Idea
- Do you have obligation to record activities under state of emergency and report it?
Yes, CPP record as much as they can.

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law, Union Parisad is responsible to conduct survey. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required.
It is unfortunate in Bhola no UP has kept record of damage database (the D-form)
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records (UP could not provide following information. The given information is valid for Monpura upazila)

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
Poultry					
Prawn					
Affected Mosque/Mondir					
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities never get priority

New volunteer did not receive any training so far

CPP/UP cannot arrange normal activity due to budget crisis.

✓ Alert and Warning Stage:

Fishermen community remain out of communication

No adequate logistic to make people alert

Every CPP Unit leader should have Radio

Signal flag are not working in night

✓ Disaster Stage

No vehicle for rescue to fishermen, they have no life jacket.

No raincoat is usable

Quick response is not possible

Road become in-accessible at the time of cyclone

Access road to shelter are interrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle and abuse of fund is also a fact.

- How many percent of residents did evacuate to shelters? 4%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

People of this island make their house with low cost material. The wall and roof are tin made. Weaker wood is used for the structure. It is very vulnerable to strong wind and cyclone. It is our observation that people receive warning, but they are not interested to move from their houses. Since the houses are not cyclone tolerant and it falls down on dweller.

The other reason is the Fishermen do not use or have no life jacket or Radio. Nor the owner of the boat or fishermen buys this equipment. They are not used to use security measures. They think cyclone or strong wind cannot cause any harm to them.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13-11	3pm	Rec	Upper-agency Lower Agency Other Agency NGOs Residents Public Media	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	11 Level 8-10 Level 6 Level	-Notice -Recommendation -Order	wireless	speaking	Distance-cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	4	-notice	wireless	speaking	cautionary		—
3	ongoing	14 Nov	9 pm	R/S	Upper-agency	Lower-agency	6	Notice Recommend	wireless	speaking	evacuate		—
4	ongoing	14 Nov	12pm	R/S	Upper-agency	Lower-agency	7	Notice Recommend	All	speaking			—
5	Passing	15-Nov	12 pm	R/S	Upper-agency	Lower-agency	10	Notice Recommend Order	All means	speaking		—	—
6	Passing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	10	Notice Recommend Order	All means	speaking		—	—
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- In 1970 hundreds lack people were died. They do not believe the warring. They believe that Allah will decide who will die or who will live. If Allah wants cyclone can't hamper them and if it is already decided that who will die no one can protect them. Now they realized the fact that they are the worst victim of cyclone. Due to the bitter experience now they come in the shelter.
- Wind speed is very fast here. It directly comes from the Meghna River and can attack directly to some of the village.
- Signal light & rescue boat is essential. Polder, Cyclone shelter, Training are needed. They suggest that it would be better if the equipments and supports are distributed through NGO not Government.
- CPP cannot evacuate and rescue people to cyclone shelter due to lack of equipments .They said that, the quality of the given raincoat is very bad, they cannot use them and all are damaged.
- CPP said that all equipments are damaged. Warning cannot be done without equipment. The volunteers are not received any kind of reward even after the cyclone.
- The peoples are told from their experience that the cyclone stay 2-3 hour.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Abdullah –Al- Baki	UNO	Upazila Parisad	01731846899
Muhammad Jakir Hossain	PIO	Upazila Parisad	01718742553
Md. Morsed Alom	Cpmputer Operator	Upazila Parisad	01716269742
Dilip Mojumder	AD(Additional)	CPP Office	01711049537
Md. Jakir Hossain	MCG	CPP Office	01912266831

(1)Responding Date and Hour

21 / 04 / 2013 (10:00am – 1:00pm)

(2)Responding Place: UNO office, Monpura

(3)Interviewer: Mustafizur Rahman

Sukhen & Afrin



Meeting with UNO



Meeting with PIO



Meeting with CPP

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization; upazila parisad

(2)Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

Disaster management responsibilities start just after the warning level 4. Upazila Disaster Management Committee, PIO and CPP office are responsible for disaster management at upazila level. Upazilla chairman works as adviser at upazila level. During disaster, coordination among different unit headed buy UNO takes place. CPP and PIO play an important role to manage the disaster.

(3)Number of Human Resources: UP DMC -36, PIO-2, CPP- 645

Quorum: One third of the member Enrollment:

(4)Population and Number of Household

Year: 2011 Source: Department of Statistics, Monpura

Population:

Male: 38,746 Female: 37,836 Total: 76,582

Number of Household: 24000

(5)Area

373.19 Square kilometer

(6)Number of Subordinate Government Agencies: 35

Let us know the number of subordinate government agencies.

The agencies are not subordinate but this agencies have their office at thana/upazila level. One unit from every ministry should have existence at upazila level. Upazila parisad/ UNO are in charge of coordination among the agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		4	
Number of Gram		36	
Number of Para			
Number of Polder		3 (58/1, 58/2, 58/3)	

(7) Outline of Industry

Monpura upazila is surrounded by big river and very newly settled area. No industry is found. From the beginning fishing was main livelihood of the early settler. Now people also do agriculture activities; the main crop is rice with some winter crop dal, chilies etc. besides Coconut, bettle-nut has been producing. Fish is the main income earning even today but they do not go very deep sea.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	45%	90% people are fisherman as well as farmer, they are mutually inclusive. They involve in fishing 6 months and rest of time is in agriculture. Man can evacuate by trawlers but how livestock can be evacuated. Livestock is main resource in this area.
Fisheries	45%	Fishermen community is major victim of cyclone. Fisherman dies in every big cyclone. People are illiterate; they do not come to coast as availability of more fish during cyclone.
Business/ Manufacture	6 %	
Service	2 %	
Others	2%	

(8) Map

- Could you provide map of District/ Upazila/ Union, if any?

The same map is available in website of GoB

3. Meteorological/ Hydrologic Observation Station: Fortunately both observation centre is active here

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. YES

The Monpura upazila is fortunate that one Meteorological and Hydrologic Observation Station is located here. But it is not lunched its activities yet.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? YES

- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?
If we can collect information then it will be possible.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Frequently	During rainy season the sea becomes very rough. Wind makes bigger wave and water level stay higher than other season; these altogether create an unsecured situation for fishing at the adjacent river.
Cyclone	Every year	Cyclone easily attack on this island. All the surrounding area is open. From the deep sea it attacks directly. So cyclone can easily destroy houses and houses are built in area very weaker manner. Cyclone attack such a way that the leaves are become isolated from the branch.
Tornado	Frequently	They are faces tornado frequently and there is no early warning system for tornado.
River bank erosion	Every year	The west coast of the Monpura has been cracking/erosion every year. Three mouza of Mopura union will be disappear very soon



River bank erosion

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Red-Crescent, Caritas, Coast trust, WFP, Sushilon, Muslim Aid etc.

6. Normal Time Activities

No budget is allocated for normal activities. Some international NOGs arrange mock drill, awareness program and training for community people

6.1 Structural Framework

(1) Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

(2) Office and Equipments

Sole use office room

Equipments :

Desks

File cabinets

Copy machine

Computers



Siren tools in PIO office of Monpura upazila

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan : NO

Staff training:

No UP member/Chairman or CPP got training on disaster issue or SoD since last five years.

- Emergency drill at district/ Upazila/ Union level: Once in a year by CPP
- Equipment maintenance : NO

If the maintenance is required the concern equipment is surrendered to upper CPP. It is heard that these equipment goes to Barisal office for maintenance. Spare parts are not available, once equipment goes to workshop it never back to CPP volunteer.

- Inter organizational/Stakeholder meeting: NO except with CPP

- Drawing/Reviewing/Updating hazard map:
NGO developed hazard map is found in the roadside



Hazard map

- Residents awareness campaign:
A rally is held on the international Disaster day every year

- Residents evacuation drill: No

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

Even they have no budget to evacuate people. PIO has to spend money from his personal source, later they collect from union chairman.

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? YES

- Please describe gaps between the SOD and actual activities? If any.

May be there is gap but we work as per our ability and resources.

What is communication means? Cell phone, VHF wireless, direct communication

- How long does it take the time usually since receiving till sending?

15 minutes

- Contents of warning :

11 levels warning 6 levels warning Others:

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

We can communicate one person to another one by cell phone which is very slow. Cell phone is main communication means at the moment. CPP lack of equipment cannot work in full swing. Most of the warning equipment is out of order.

Radio (good quality) is necessary for unit leader.

- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 85%
- How many percent does Mosque Microphone cover in the area? 70%
- How many percent does commercial/govt. power supply cover the area? 1%
- How many percent do residents have solar power system? 45%

How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 0% AM Radio: 100%

Mobile Phone: 90%

- How many percent do mobile phone network cover the area? 85%
- How many percent do residents have mobile phones? 90%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Local administration decides evacuation order. CPP volunteers play

important role to evacuate at every level.



Wireless



Stasher



Megaphone

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers. Caritas made SCs are managed by itself.

(3)Rescue and Search:

At the time of disaster/emergency CPP do not search or rescue but soon after the passing of cyclone we do if it is required. Mainly upazila administration is responsible for rescue. Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very scope to assist the victim. Bangladesh Coast guard headquarter is located in Bhola, they might use to search and rescue activities.

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5)Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and scrutinize by government official.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parishad or Upazila parishad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

During the disaster CPP, UP ask people to take shelter at their nearest one. CPP have experience and work to evacuate people. It is not possible to evacuate most people to cyclone shelter. The island is very long. Distance to SC is very long.

➤ zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The literacy rate of Monpura is very low. Sometime co-ordination of both necessities is difficult to meet.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

➤ evacuation route: Access road are not in good condition

➤ shelter capacity: 200-250 persons per cyclone shelter

➤ storage of food and water, and so on:

UNO/UP request businessmen not sell dry food at disaster stage and ask them for reserve.

(2)Current Condition of shelters

- Number of shelters : 23 Existing: 23 (most of them are good condition)
Plan: 2

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? No Idea
- Do you have obligation to record activities under state of emergency and report it?
Yes, CPP record as much as they can.

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law Union Parisad is responsible to conduct survey. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required. Aid agencies give requisition for information on damages and UP provides.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead	3	2		2	
Missing	0	0		250	
Injured					
Total Collapse Houses	155	8150		465	
Half Collapse Houses	667	7360		2901	
Total Collapse Dike	0				
Half Collapse Dike	km				
Inundation Area				31 km ²	
Inundation Depth					
Agriculture Damage	235 (Acre)	6700 (Acre)		15000 acre	
Fisheries Damage	BDT. 850,000	BDT. 150,000			
Livestock	73 (no.)	6000 (no)			
Poultry					
Prawn					
Affected Mosque/Mondir	286				
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities never get priority

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs like Red-Crescent, Caritas, Save the children etc.

✓ Alert and Warning Stage:

No adequate logistic to make people alert

Every CPP Unit leader should have Radio

Hand mikes are out of order.

CPP uses Hand siren/ VHF set

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Damage survey are manipulated

Access road to shelter are interrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 4%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

People of this island make their house with low cost material. The wall and roof are tin made. Weaker wood is used for the structure. It is very vulnerable to strong wind and cyclone. It is our observation that people receive warning, but they are not interested to move from their houses. Since the houses are not cyclone tolerant and it falls down on dweller.

The other reason is the Fishermen do not use or have no life jacket or Radio. Nor the owner of the boat or fishermen buys this equipment. They are not used to use security measures. They think cyclone or strong wind cannot cause any harm to them.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13. 11	3pm	Rec	Upper agency	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	3	-Notice -Recommendation -Order	wireless	speaking	Distance cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper agency	Lower agency	4	notice	wireless	speaking	cautionary		
3	ongoing	14 Nov	9 pm	R/S	Upper agency	Lower agency	6	Notice Recommend	wireless	speaking	evacuate		
4	ongoing	14 Nov	12pm	R/S	Upper agency	Lower agency	7	Notice Recommend	All	speaking			
5	Passing	15 Nov	12 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
6	Passing	14 Nov	6 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- The necessity of killa in Monpura is very urgent. Whatever the cyclone center it has is not enough but the number of KILLA is very few compare to the requirement. In every cyclone it lost huge livestock (buffalo, cow, goat, etc). Since Agriculture is manual based and livestock are destroyed, it causes double damage of resources. Peoples are demanding more killa than polder or cyclone shelter.
Char Nizam and kalatoli need killa very urgently
- Now cyclone shelter could not be built due to absence of school. Policy should change. for example Kalatoli need a SC but there is school there.
- CPP We cannot evacuate people to cyclone shelter. The island is very long. Distance to SC is very long.
- Now Govt. provides salary and Red Crescent provides training & equipment. CPP become more or less de-motivated due to the control over issue on CPP management between Govt. and Red-crescent.
- Couple of years ago American Red Cross give some equipment (though all are 2nd hand). The equipments are in position of not easy communication, sound are not clear.
- Special training for fisherman and Imam community is required. If we make fishermen aware, the causality/ damage can be minimized or reduced. The death rate is high among fisherman community.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Shahriar Choudhury	Chairman	Union Pasisod	01711984831
Md. Alom	Secretary	Union Pasisod	01724633510
Sitaram dey	SAAO	Agriculture Office	01718335213
A. Sayed	Member	Union CPP	01732773490
Md. Mossarrof Hossain	Up team leader	Union CPP	01740431732

(1)Responding Date and Hour

22 / 04 / 2013, (4.00- 615 pm)

(2)Responding Place: Hazirhat Union parisad office, Monpura

(3)Interviewer: Mustafizur Rahman

Sukhen & Afrin



Meeting in Hajirhat Union
Porisad

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization; Union parisad

(2)Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

Disaster management responsibilities start just after the warning level 4. UP Chairman, DMC member and CPP are responsible for disaster management. UP themselves with village police and CPP with unit team leader and volunteer deal the disaster.

(3) Number of Human Resources: UP DMC -35, CPP-

Quorum: two third of the member Enrollment:

(4) Population and Number of Household

Year: 2011 Source: UP database, Hazirhat

Population:

Male: 38,746 Female: 37,836 Total: 76,582

Number of Household: 24000

(5) Area

373.19 Square kilometer

(6) Number of Subordinate Government Agencies: 34

Let us know the number of subordinate government agencies.

The agencies are not subordinate but this agencies have their office at Union level. Since thana and union are same jurisdiction this union have more agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			5
Number of Para			9
Number of Polder			1 (58/2)

(7) Outline of Industry

Hazirhat union is surrounded by big river by east and west side. No industry is found. From the beginning fishing was main livelihood of the early settler. Now people also do agriculture activities; the main crop is rice with some winter crop dal, chilies. Fish is the main income earning even today but they do not go very deep sea.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	45%	90% people are fisherman as well as farmer, they are mutually inclusive. They involve in fishing 6 months and rest of time is in agriculture.
Fisheries	45%	Fishermen community is major victim of cyclone. Fisherman dies in every big cyclone. People are illiterate; they do not come to coast as availability of more fish during cyclone.
Business/ Manufacture	6 %	
Service	2 %	
Others	2%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

NO

3. Meteorological/ Hydrologic Observation Station: Fortunately both observation centre is active here

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. YES

The Monpura union is fortunate that one Meteorological and Hydrologic Observation Station is located here. But it is not lunched its activities yet.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? YES
- If yes, do you have map of these locations or can you put the locations on the map?

The metrological office is very close to UP office.

- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

If we can collect information then it will be possible.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Regularly and twice in every month particularly	3 wards are suffering regular under inundation. Char faziuddin, Dasher hat goes under water. Land reclaim by cross dam are also under normal high tide and low tide. During rainy season the sea becomes very rough and water level increase. Wind makes bigger wave and water level stay higher than other season.
Cyclone	Every year	Cyclone easily attack on this island. All the surrounding area is open. From the deep sea it attacks directly. So cyclone can easily destroy houses and houses are built in area very weaker manner. Cyclone attack such a way that the leaves are become isolated from the branch. We found many trees uprooted here and there.
Tornado	More or less every year	They are faces tornado frequently and there is no early warning system for tornado.
River bank erosion	Every year	The west coast of the Monpura has been cracking/erosion every year. West part of the Hazirhat union will be disappear very soon. Old polder has to shift twice due to erosion and polder is open in 4 or places/point.



5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Red-Crescent, Caritas, Coast trust, WFP, Sushilon, Muslim Aid etc.

6. Normal Time Activities

No budget is allocated for normal activities. Disaster management bureau has arranged to Mock drill in Monpura last year.

Some national and international NGOs have implemented awareness program and training for community people.

6.1 Structural Framework

(1)Number of Human Resources NO separate Office and Equipments

Full-time:

Part-time:

(2)Office and Equipments

Sole use office room

Equipments :

Desks

File cabinets

Copy machine

Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan : NO

Staff training:

No UP member/Chairman or CPP got training on disaster issue or SoD since last five years. New volunteer did not receive training. CPP could not remember when last training was arranged. No refresher training is provided since couple of years.

- Emergency drill at district/ Upazila/ Union level: Once in a year by CPP
- Equipment maintenance :

CPP has to inform and give requisition for maintenance. Spare parts are not available, once equipment goes to workshop it never back to CPP volunteer. UP have no equipment for early warning but CPP have some. If the maintenance is required the concern equipment is surrendered to upper CPP. It is heard that these equipment goes to Barisal office for maintenance and very rare occasion it back to unit office or volunteer.

- Inter organizational/Stakeholder meeting: NO except with CPP

- Drawing/Reviewing/Updating hazard map:
- NGO developed hazard map is found in the roadside
- Residents awareness campaign: No
- Residents evacuation drill: No



Hazard map of Hajirhat Union

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

Even they have no budget to evacuate people. Chairman has to spend money from his personal source.

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
Union parisad and union CPP have no idea on SoD.

- Please describe gaps between the SOD and actual activities? If any.

May be there is gap but we work as per our ability and resources.

(1)Number of Human Resources

- How many staffs are mobilized?
Union parisad can mobilize only themselves and VDB, ANSWER and enough staff from different agencies as well as NGOs.

11 levels warning 6 levels warning Others:

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

Communication to community people is not a problem rather we can ask to take shelter to SC due to lack of space. We can communicate one person to another one by cell phone which is very slow. Cell phone is main communication means at the moment. CPP lack of equipment cannot work in full swing. Most of the warning equipment is out of order.

Radio (good quality) is necessary for unit leader.

- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 85%
- How many percent does Mosque Microphone cover in the area? 70%
- How many percent does commercial/govt. power supply cover the area? 1%
- How many percent do residents have solar power system? 50%

How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 0% AM Radio: 100%

Mobile Phone: 90%

- How many percent do mobile phone network cover the area? 85%
- How many percent do residents have mobile phones? 90%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers. Caritas made SCs are managed by itself. The management authority goes to an agency who has constructed the centre.

(3)Rescue and Search:

At the time of disaster/emergency CPP do not search or rescue but soon after the passing of cyclone we do if it is required. Mainly upazila administration is responsible for rescue. Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very scope to assist the victim. Bangladesh Coast guard headquarter is located in Bhola, they might use to search and rescue activities.

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5)Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and scrutinize by government official.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation. UP can spend few from GR fund.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

It is not possible to evacuate most people to cyclone shelter. The island is very long. Distance to SC is very long. During the disaster CPP, UP ask people to take shelter at their nearest one. CPP have experience and work to evacuate people.

- zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The literacy rate of Monpura is very low. Sometime co-ordination of both necessities is difficult to meet. We have vast area without SC.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not bad.
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

Generally there is no dry food storage at normal time in the SC. The custom is dry food is available in local market for 2or days. UP request businessman not sells dry food at disaster stage and ask them for reserve.

(2)Current Condition of shelters

- Number of shelters : 8 Existing: (most of them are good condition) Plan:
- Total capacity : 5,000 Population ratio 96 for 21,000 people
- Solo use: 50% Multi use: 50%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea

- Cost burden : LGED/GoB & NGO sponsored

(4) Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? No Idea
- Do you have obligation to record activities under state of emergency and report it?
Yes, CPP record as much as they can.

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law Union Parisad is responsible to conduct survey. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required. Aid agencies give requisition for information on damages and UP provides.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records (UP could not provide following information. The given information is valid for Monpura upazila)

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila		Tornado	
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead	3	2		2	
Missing	0	0		250	
Injured					
Total Collapse Houses	155	8150		465	
Half Collapse Houses	667	7360		2901	
Total Collapse Dike	0				
Half Collapse Dike	Km				
Inundation Area				31 km ²	
Inundation Depth					
Agriculture Damage	235 (Acre)	6700 (Acre)		15000 acre	
Fisheries Damage	BDT. 850,000	BDT. 150,000			
Livestock	73 (no.)	6000 (no)			
Poultry					
Prawn					
Affected Mosque/Mondir	286				
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

Normal activities never get priority

We cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs like Red-Crescent, Caritas, Save the children etc.

- ✓ Alert and Warning Stage:

No adequate logistic to make people alert

Every CPP Unit leader should have Radio

Hand mikes are out of order.

- ✓ Disaster Stage

No vehicle for rescue to fishermen, they have no life jacket.

Quick response is not possible

Road become in-accessible at the time of cyclone

Access road to shelter are interrupted

- ✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle and abuse of fund is also a fact.

- How many percent of residents did evacuate to shelters? 4%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

People of this island make their house with low cost material. The wall and roof are tin made. Weaker wood is used for the structure. It is very vulnerable to strong wind and cyclone. It is our observation that people receive warning, but they are not interested to move from their houses. Since the houses are not cyclone tolerant and it falls down on dweller.

The other reason is the Fishermen do not use or have no life jacket or Radio. Nor the owner of the boat or fishermen buys this equipment. They are not used to use security measures. They think cyclone or strong wind cannot cause any harm to them.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13-11	3pm	Rec	Upper-agency Lower Agency Other Agency NGOs Residents Public Media	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order	wireless	speaking	Distance-cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	-4	-notice	wireless	speaking	cautionary		—
3	ongoing	14 Nov	9 pm	R/S	Upper-agency	Lower-agency	-6	Notice Recommend	wireless	speaking	evacuate		—
4	ongoing	14 Nov	12pm	R/S	Upper-agency	Lower-agency	-7	Notice Recommend	All	speaking			—
5	Passing	15-Nov	12 pm	R/S	Upper-agency	Lower-agency	-10	Notice Recommend Order	All means	speaking		—	—
6	Passing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	-10	Notice Recommend Order	All means	speaking		—	—
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- Special training for imam of Mosque, fisherman community is required. Since we use mosque mike and they have contribution to warn people. Imam is a very respected people in the community and people trust them. If we become trained them they will contribute more. CPP will get more resources.
- The west coast of this union has been suffering regular inundation. Char faziuddin, Dasher hat goes under water. Land reclaim by cross dam are also under normal high tide and low tide. During rainy season the sea becomes very rough and water level increase. Saline water can go straight to upazila town if the water level increase 2 or 3 feet more than normal time..
- The necessity of killa in Monpura is very urgent. Whatever the cyclone center it has is not enough but the number of KILLA is very few compare to the requirement. In every cyclone it lost huge livestock (buffalo, cow, goat, etc). Since Agriculture is manual based and livestock are destroyed, it causes double damage of resources. Peoples are demanding more killa than polder or cyclone shelter.
Char Nizam and kalatoli need killa very urgently
- CPP We cannot evacuate people to cyclone shelter. The island is very long. Distance to SC is very long.
-

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Alauddin Haolader	Chairman	Union Porisad	01716224771
Suronjrit Das	Secretary	Union Porisad	01740962005
Dilip Mojumder	CPP team leader	CPP	01711049507
Bikas Chandro Das	CPP unit team leader	CPP	01717651882
Md. Umoruddin	UP Member	Union Porisad	01765862866

(1)Responding Date and Hour

22 / 04 / 2013, (4.00- 6.15) pm

(2)Responding Place: Monpura Union parisad office, Monpura

(3)Interviewer: Mustafizur Rahman

Sukhen & Afrin



2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization; Union parisad

Meeting in union parisad

(2)Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management. UP themselves with village police and CPP unit team leader and volunteer deal the disaster.

(3)Number of Human Resources: UP DMC -36, CPP-

Quorum: two third of the member Enrollment:

(4)Population and Number of Household

Year: 2009 Source: UP database, Monpura

Population:

Male: 10,500 Female: 9,5000 Total: 20,000

Number of Household: 4500

(5)Area

70 Square kilometer

(6)Number of Subordinate Government Agencies: 19

Let us know the number of subordinate government agencies.

The agencies are not subordinate but this agencies have their office at Union level.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			5
Number of Para			9
Number of Polder			1 (58/1)

(7)Outline of Industry

Monpura union is surrounded by big river by north, east and west side. Two scattered island called Dhalchar and kalatoli is unprotected area/ward. No industry is found. From the beginning fishing was main livelihood of the early settler. Now people also do agriculture activities; the main crop is rice with some winter crop dal, chilies. Fish is the main income earning even today but they do not go very deep sea.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	44%	90% people are fisherman as well as farmer,

		they are mutually inclusive. They involve in fishing 6 months and rest of time is in agriculture.
Fisheries	45%	Fishermen community is major victim of cyclone. Fisherman dies in every big cyclone. People are illiterate; they do not come to coast as availability of more fish during cyclone.
Business/ Manufacture	8 %	
Service	2 %	
Others	1%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

NO

3. Meteorological/ Hydrologic Observation Station: Fortunately both observation centre is active here

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. YES

The Monpura upazila is fortunate that one Meteorological and Hydrologic Observation Station is located here. But it is not lunched its activities yet.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? YES
- If yes, do you have map of these locations or can you put the locations on the map?

The metrological office is 9 km away from the UP office.

- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

If the information is available then it will be possible.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Regularly and twice in every month particularly	Two isolated island of this union have been suffering regular inundation. Dalchar and Kalatoli go under water in every high tide during full moon or the opposite. West part of the Monpura union will be disappearing very soon. During rainy season the sea becomes very rough and water level increase. Wind makes bigger wave and water level stay higher than other season.
Cyclone	Every year	Cyclone easily attack on this island. All the surrounding area is open. From the deep sea it attacks directly. So cyclone can easily destroy houses and houses are built in area very weaker manner. Cyclone attack such a way that the leaves are become isolated from the branch. Wind speed is very fast here. It directly comes from the sea and can attack directly to island. We found many tree uprooted and house demolished.
Tornado	More or less every year	They are faces tornado frequently and there is no early warning system for tornado.
River bank erosion	Everyday	The west coast of the Monpura has been cracking/erosion every year. West part of the union will be disappear very soon. Old polder has to shift twice due to erosion and polder is open in 4 or places/point.



River bank erosion

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upazila administration

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C,G,F	E,D	C,A,F,G	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

NGO= Red-Crescent, Caritas, Coast trust, WFP, Sushilon, Muslim Aid etc.

- Drawing/Reviewing/Updating hazard map:
NGO developed hazard map is found in the roadside
- Residents awareness campaign: No
- Residents evacuation drill: No

6.3 Financial Status: NO budget except disaster/emergency time.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

Even they have no budget to evacuate people. Chairman has to spend money from his personal source.

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
Union parisad and union CPP have no idea on SoD.
- Please describe gaps between the SOD and actual activities? If any.
May be there is gap but we work as per our ability and resources.

(1)Number of Human Resources

- How many staffs are mobilized?
Union parisad can mobilize only themselves and VDB, ANSWER and some staffs from different agencies as well as NGOs.
- Do you have any regulations/ rules for mobilization of staffs? No idea

(2) Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others:
- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receiver

7.2 Warning

(1) Warning

- Where do you receive the warning form? :
UP receive message through cell phone from UNO office and CPP receive from control room or CPP upazila office. Upazila-CPP receives from Dhaka control room directly. Disaster Management Bureau is in charge of distributing the warning to District level.

What is communication means? :

Cell/land phone, HF wireless, direct communication/ by walk

- Where do you send the warning to? :
The union DMC call meeting, send message to community people through public announcement. Union level CPP member & volunteer send message to the community people.

What is communication means?

Cell phone, VHF wireless, direct communication

- How long does it take the time usually since receiving till sending?
15 minutes
- Contents of warning :

11 levels warning 6 levels warning Others:

To warn people is the main concern of warning content of warning level 4. The content of warning level 5 or more is to ask people to take shelter and content of warning level 7+ is to danger is coming and take necessary measure as much as they have.

Other contents are evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents?

The local issues are ignored in current warning system.

- Do you have any issues and problems regarding communication method?

Communication to community people is not a problem rather CPP/UP cannot ask people to take shelter to SC due to lack of space. We can communicate one person to another one by cell phone which is very slow. Cell phone is main communication means at the moment. CPP cannot work in full swing lack of equipment. Most of the warning equipment is out of order.

Radio (good quality) is necessary for unit leader.

- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 95%
- How many percent does Mosque Microphone cover in the area? 65%
- How many percent does commercial/govt. power supply cover the area? 2%
- How many percent do residents have solar power system? 50%

- How many percent do information infrastructures below cover the area?

TV Network: 100% FM Radio: 0% AM Radio: 100%

Mobile Phone: 90%

- How many percent do mobile phone network cover the area? 95%
- How many percent do residents have TV in the area? 5%
- How many percent do residents listen to Radio? 2%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Local administration decides evacuation order. CPP volunteers play important role to evacuate at every level.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance No idea

(2) Shelter Management:

SMCs are managing only those are school cum cyclone centers. Caritas made SCs are managed by itself. The agency who has constructed the centre is managing the SC now.

(3)Rescue and Search:

At the time of disaster/emergency CPP do not search or rescue but soon after the passing of cyclone it does if it is required. Mainly upazila administration is responsible for rescue. Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very little scope to assist the victim. Bangladesh Coast guard headquarter is located in Bhola, they might use to search and rescue activities.

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGOs play important role and work together to help the sufferer.

(5)Damage Survey:

The survey conducted by UP with the help of CPP. UP collect information and government official scrutinizes.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation. UP can spend few from

GR fund.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

It is not possible to evacuate most people to cyclone shelter. The island is very long. Distance to SC is very long. During the disaster CPP, UP ask people to take shelter at their nearest one. CPP have experience and work to evacuate people.

- zoning for each evacuation shelter NO

Govt. wants to build cyclone shelter cum school. The literacy rate of Monpura is very low. Sometime co-ordination of both necessities is difficult to meet. The Dalchar is an island without cyclone centre.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are not bad.
- shelter capacity: 200-250 persons per cyclone shelter
- storage of food and water, and so on:

Generally there is no dry food storage at normal time in the SC. The dry food is available in local market and be meet for 2/3 days. UP request businessman not sells dry food at disaster stage and ask them for reserve.

(2)Current Condition of shelters

- Number of shelters : 5 Existing: (most of them are good condition) Plan:
- Total capacity : 15,00 Population ratio 5 for 20,000 people
- Solo use: 50% Multi use: 50%
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB

- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO sponsored

(4) Shelter Management Manual

- Do you have a shelter management manual? NO



Cyclone Shelter in 1 no. Monpura union

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? No Idea
- Do you have obligation to record activities under state of emergency and report it?
Yes, CPP record as much as they can.

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law, Union Parisad is responsible to conduct survey. Upazila parisad/UNO may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required.
It is unfortunate in Bhola no UP has kept record of damage database (the D-form)
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records (UP could not provide following information. The given information is valid for Monpura upazila)

- Could you provide past disaster records? If possible, could you fill the table below?

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Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009		9/4/2012	
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	170	120			
Highest Sea Level	8	9			
Total Rainfall					
Dead	3	2		2	
Missing	0	0		250	
Injured					
Total Collapse Houses	155	8150		465	
Half Collapse Houses	667	7360		2901	
Total Collapse Dike	0				
Half Collapse Dike	Km				
Inundation Area				31 km ²	
Inundation Depth					
Agriculture Damage	235 (Acre)	6700 (Acre)		15000 acre	
Fisheries Damage	BDT. 850,000	BDT. 150,000			
Livestock	73 (no.)	6000 (no)			
Poultry					
Prawn					
Affected Mosque/Mondir	286				
No. of affected School/ College					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities never get priority

New volunteer did not receive any training so far

CPP/UP cannot arrange normal activity due to budget crisis.

Training and awareness program are implemented by NGOs like Red-Crescent, Caritas, Save the children etc.

✓ Alert and Warning Stage:

Fishermen community remain out of communication

No adequate logistic to make people alert

Every CPP Unit leader should have Radio

Hand mikes are out of ordered.

✓ Disaster Stage

No vehicle for rescue to fishermen, they have no life jacket.

Quick response is not possible

Road become in-accessible at the time of cyclone

Access road to shelter are interrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle and abuse of fund is also a fact.

- How many percent of residents did evacuate to shelters? 4%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

People of this island make their house with low cost material. The wall and roof are tin made. Weaker wood is used for the structure. It is very vulnerable to strong wind and cyclone. It is our observation that people receive warning, but they are not interested to move from their houses. Since the houses are not cyclone tolerant and it falls down on dweller.

The other reason is the Fishermen do not use or have no life jacket or Radio. Nor the owner of the boat or fishermen buys this equipment. They are not used to use security measures. They think cyclone or strong wind cannot cause any harm to them.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13-11	3pm	Rec	Upper-agency Lower Agency Other Agency NGOs Residents Public Media	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order	wireless	speaking	Distance-cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	-4	-notice	wireless	speaking	cautionary		—
3	ongoing	14 Nov	9 pm	R/S	Upper-agency	Lower-agency	-6	Notice Recommend	wireless	speaking	evacuate		—
4	ongoing	14 Nov	12pm	R/S	Upper-agency	Lower-agency	-7	Notice Recommend	All	speaking			—
5	Passing	15-Nov	12 pm	R/S	Upper-agency	Lower-agency	-10	Notice Recommend Order	All means	speaking		—	—
6	Passing	14 Nov	6 pm	R/S	Upper-agency	Lower-agency	-10	Notice Recommend Order	All means	speaking		—	—
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- The west coast of the Monpura has been cracking/erosion every year. West and north part of the union will be disappearing very soon. Old polder has to shift twice due to erosion and polder is open in 4 or places/point. Most of the polder was constructed in 1980-1983, now it lost its half of the height. It reduced to 7 feet from 14 feet.
- After Aila, minister came here and declared that every people will get BDT. 20,000 who lost their house fully but nobody receive any money so far. Anybody can understand from this message how the rehabilitation work going on.
- Wind speed is very fast here. It directly comes from the sea and can attack directly to island. We found many tree uprooted and houses demolished.
- Special training for imam of Mosque is required. Since we use mosque mike and they have contribution to warn people. Imam is a very respected people in the community and people trust them. If we become trained them they will contribute more. CPP will get more resources.
- Climate change fund was abused. BWD suppose to construct new polder by climate change fund but sign of new polder construction is absent.
- Signal light & rescue boat is essential. Kalatoli is extremely unprotected. People are living without polder, safe drinking water. We could bring them into main land if we have had rescue boat.
- The necessity of killa in Monpura is very urgent. Whatever the cyclone center it has is not enough but the number of KILLA is very few compare to the requirement. In every cyclone it lost huge livestock (buffalo, cow, goat, etc). Man can evacuate by trawlers but how livestock can be evacuated. Livestock is main resource in this area. Killa is proven security measure for the livestock.
- CPP We cannot evacuate people to cyclone shelter. The island is very long. Distance to SC is very long.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Way of Collection

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Santi Ranjan Baidya	DRRO	District relief & rehabilitation officer	01716447512
Shahidul Islam	Head assistant	DRR office	
Nurul Huda	Computer operator	DRR office	

(3)Responding Date and Hour

24 / 03 / 2013

(4)Responding Place

DC office Patuakhali

(5)Interviewer: Mustafizur Rahman

2. General Information on Main Body of the Organization

(1)Name of Main Body of the Organization: District administration

(2)Organization Chart

The office could not provide Organization chart

- Do you have organization chart?
The respondent/office could not show us the organization chart that very day during interview
- If yes, could you provide a copy of the chart? Or let us take a photo of it.
- Which departments/units are charges of disaster management? Could you explain on the chart? (We ask more detail at section 5.)

District Relief & Rehabilitation Office are responsible for disaster management. One officer called DDRO (District Relief & Rehabilitation Officer) is the head of this unit. DC is the head of district DMC

(3)Number of Staff

Full number: 7 Existent number

(4)If we have not got the data yet, Population and Number of Household

At which time: 2011 Source: census 2011

Male: 783103 Female: 813119 Total:1596222

Number of Household:

(5)If we have not got the data yet, Area

3221 Square kilometer

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	8		
Number of Union	72		
Number of Gram			
Number of Para			
Number of Polder			

(7)Outline of Industry

This is not industry area but some small or cottage industry might have here but I have no idea. People have been living on agriculture and fisheries and service sector. Agriculture and fish culture and manual based.

- Let us know how many employees do each industrial group have ?
- Let us know what kind of vulnerability on disaster do each industrial group have ?

Group	Number of Employees	Vulnerability on disaster
Agriculture	45%	
Fisheries	3%	
Manufacture		
Service	6%	

(8)Map

- Do you have map of your jurisdiction area?
- If yes, could you provide a copy of the map? Or let us take a photo of it.
- What kind of information is mapping on it?

A photocopy of jurisdiction area map was provided where location of different

upazila, roads, demarcation line of upazila, forest area are mentioned.

3. Hydrologic Observation Station

We concern that the warning by Meteorological department is sufficient for evacuation decision making at each local site.

- Do you have your own hydrologic observation station?

I am not sure but think BWDB might have observation centre at River level and not sure whether they are recording the data or not

Rainfall:

Wind:

River level:

Sea level:

- Do you grasp location of hydrologic observation station operated by Meteorological department?

Hydrologic observation station is under WDB (water development board).

- If yes, do you map these locations? N/A
- Do you think you should have more detailed local warning depended on local observation data? YES
- Do you think more detailed local warning can be executed on existing observation stations? YES

4. Disaster Conditions

Let us know disaster conditions in your jurisdiction area.

Disaster Type	Frequency	Damage
Large river flood		
Flash flood	no	
Inside water inundation	Twice per month	Some lower part of district inundated during high tide
Cyclone	Thrice in 40 years	

6. Normal Times Activities

: currently no normal times activities

Appropriate disaster management execution depends on preparedness through normal time activities.

6.1 Normal Assignment:

(1) Number of staff

Full-time: 6 Part-time:

(2) Office and Equipments

Sole use office room

Multi use desk

Equipments : Desks 4 File cabinets 1

Copy machine 1 Computers 1

Communication equipments (Another questionnaire)

6.2 Activity Contents

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan: NO
- Staff training: ONLY officer level
- Emergency assignment drill: They heard that few NGOs are organizing
- Equipment maintenance: NO maintenance
- Interorganizational/Stakeholder meeting: once in a two month
- Drawing/Reviewing/Updating hazard map: NO hazard map
- Residents awareness campaign: No
- Residents evacuation drill: No information

6.3 Finance

- Let us know the finance statements in normal times activities.
Budget: 50 metric ton Rice and 200 thousand taka per year
Expenditure: as per requirement

Disaster Management Bureau is in charge of distributing the warning to residents through local agencies in order.

- Where do you receive the warning form?
From Ministry, control room, and concern department
What is communication means? : Cell/land phone mail, and fax
- Where do you send the warning to?
Upazila level, CPP member & volunteer
What is communication means? Cell phone, mail, and fax
- How long does it take the time usually since receiving till sending?
20-25 minutes
- Contents of warning :
11 levels warning 6 levels warning Others: contents is very simple, evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge and what to do and do not etc.
- Let us know your evaluation on existing warning contents. Do you have any improvement plan?
I think existing content warning content is good enough but we have no improvement plan so far. Ministry is responsible for improvement.
- Let us know your evaluation on existing communication means. Do you have any improvement plan?
Cell phone is main communication means at the moment we also use mosque mike during emergency. The mosque mike has wider coverage. Land phone are also effective.
- When you send the warning, do you add some information on or take some information away?
Yes, we add information but very little quantity.

(2) Warning Originated from Local Agencies

- Is there a regulation in which the chives of local agencies give resident living in particular area recommendation or direction of evacuation?

The current practice is government official and DMC, CPP are disseminating the warning. Mayor or locally elected bodies are associated the process.

7.3 The Other Activities

Let us know the other activities if you do.

(1)Evacuation Guidance: No idea

(2)Shelter Management: No idea

(3)Rescue and Search

(4)Sufferer Help

(5)Damage Survey: UP

(6)Other

7.4 Finance

- Let us know the finance statements in emergency activities.

Budget: Expenditure:

The same budget as we mention earlier

8. Evacuation Shelter

(1)Evacuation Plan

- Does the disaster management plan include evacuation plan describing evacuation zoning, evacuation route, shelter capacity, food and water and so on?

NO

(2)Current Condition of the shelters

- Number of shelters : Existing 322 (298 have better Condition)

Plan

- Total capacity : 350/ shelter Population ratio 322 for 1596222 people

- Solo use: Multi use: mostly multi use
- The other purpose on multi use shelter: school
- Do you think the shelters have enough height against tidal waves. YES

(3) Superintendence

- Owners: LGED/GoB
- Superintendents: GoB (Government of Bangladesh)
- Cost burden : GoB

(4) Shelter Management Manual: NO

The shelter management manual is vital to operate shelter appropriately and to keep evacuees orderly.

- Do you have the shelter management manual in disaster? NO
- If yes, could you provide a copy of the plan? Or let us take a photo of it

9. Records

Learning from past disaster is very important. Records of disaster make it possible therefore the records are vital at all level local agencies.

(1)Activities Records

- Is there obligation that you record normal times activities and report it?
NO
- If yes, could you provide a copy of the report? Or let us take a photo of it
- Is there obligation that you record activities in disaster and report it? YES
- If yes, could you provide a copy of the report? Or let us take a photo of it

(2)Damage Records

- Is there obligation that you take a survey of disaster damage and report it?
We don't know whether it is obligation or not but we conduct survey on disaster damage and report it.
- If it is not your business, who is in charge? Could you fill below table?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP, DMC	
	Injured	UP	
	Evacuees	CPP	
Private Sector	Building	LGED,PWD	
	Agriculture	UP, Agriculture dept.	
	Fisheries	Fisheries dept	
	Manufacture		
Public Sector	Road, Bridge	LGED,RHD	
	Dike		
	Public Utilities	DPHE	
Generalization, Statistics			

10. Conditions of Past Disasters

- Let us know ruinous conditions given by past disasters of recent years.
- If you have records, could you provide a copy of the records? Or let us take a photo of it
- If there are not records, but you have data on your note or something, could you fill the below table as possible.

#	1	2	3	4	5
Name	Sidr	aila			
Type					
Start Date					
End Date					
Outline					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Others					

11. Actual Activities in past specific cyclone

We try to grasp real condition of warning and evacuation in past specific cyclone.

We select cyclone_____in district_____for this survey.

- If you have activities record on this cyclone, could you try to add time series on each activity. NO
- If you do not have record on this cyclone, could you try to fill the next table using your diary, memo and so on as possible?

#	Situation Approaching Ongoing Passing	Date	Hour	Receive /Send	From Whom/To Whom Upper Agency Lower Agency Other Agency NGOs Residents Public Media	Type Notice Recommendation Direction	Means		Contents	Activities	Issues
							Fixed-line phone Cell-phone Radio Loudspeaker Face to Face	Speaking Fax Email			
1											
2											
3											
5											
6											
7											
8											
9											
10											
11											
12											
13											

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Way of Collection

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Mr. Harun-ur-rashid	Upazilla Chairman	Upazila parisad	01715806432
Mr. Mahbub Alam	Upazila Nirbahi Officer	administration	01712786830
Mr. Mojahidul Islam	PIO	Upzila administration	01711947460

(3)Responding Date and Hour

25 / 03 / 2013

(4)Responding Place

UNO office Galachipa

(5)Interviewer: Mustafizur Rahman

2. General Information on Main Body of the Organization

(1)Name of Main Body of the Organization

Upzila administration

(2)Organization Chart

The office could not provide Organization chart

- Do you have organization chart?
The UNO office could not show us the organization chart that very day during interview
- If yes, could you provide a copy of the chart? Or let us take a photo of it.
- Which departments/units are charges of disaster management? Could you explain on the chart? (We ask more detail at section 5.)

(8)Map

- Do you have map of your jurisdiction area?
- If yes, could you provide a copy of the map? Or let us take a photo of it.
- What kind of information is mapping on it?

A photocopy of jurisdiction area map was provided where location of different union, roads, demarcation line of union, forest area are mentioned.

3. Hydrologic Observation Station

We concern that the warning by Meteorological department is sufficient for evacuation decision making at each local site.

- Do you have your own hydrologic observation station?

Only one observation centre at River level is available but it is not sure whether they are recording the data or not

Rainfall: Wind:
River level: Sea level:

- Do you grasp location of hydrologic observation station operated by Meteorological department?

Hhydrologic observation station is being operated by WDB (water development board) of local office.

- If yes, do you map these locations?
- Do you think you should have more detailed local warning depended on local observation data?

The respondent could not understand the real meaning of this question and have fewer idea about the importance local observation data.

- Do you think more detailed local warning can be executed on existing observation stations?

Have no idea.

4. Disaster Conditions

Let us know disaster conditions in your jurisdiction area.

Disaster Type	Frequency	Damage
Large river flood		
Flash flood	no	
Inside water inundation	Twice per month	
Cyclone	Thrice in 40 years	

5. Disaster Management Departments/Units: 18 unit upazila administration

(1)Departments/units in the organization and Organizations Concerned

Could you list names of departments/units in charges of disaster management? Also organizations concerned disaster manegment?

- A: Disaster management committee G:
- B: Disaster Relief & Rehabilitation Office H:
- C: I:
- D: J:
- E: K:
- F: L:

(2)Duties/Business of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by above organizations' mark?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Sufferer Help	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Times Activities
National									
District									
Upazila	DMC, CPP	DRR, CPP	CPP, SMC	CPP, DRR	CPP, DRR	UP	DRR	NGO, rich	NGO, CPP
Union									
Gram									
Para									
Individual									
CPP									

6. Normal Times Activities

: currently no normal times activities

Appropriate disaster management execution depends on preparedness through normal time activities.

6.1 Normal Assignment:

(1) Number of staff

Full-time: 2 Part-time:

(2) Office and Equipments

Sole use office room Multi use desk

Equipments : Desks 2 File cabinets

Copy machine Computers 1

Communication equipments (Another questionnaire)

6.2 Activity Contents

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan: NO
- Staff training: NO
- Emergency assignment drill: They heard that few NGOs are organizing
- Equipment maintenance: NO maintenance
- Interorganizational/Stakeholder meeting: once in a two month
- Drawing/Reviewing/Updating hazard map: NO hazard map
- Residents awareness campaign: No idea
- Residents evacuation drill: No information

6.3 Finance

- Let us know the finance statements in normal times activities.

Budget: NO Expenditure:

Disaster Management Bureau is in charge of distributing the warning to residents through local agencies in order.

- Where do you receive the warning form? From control room, District office
What is communication means? : Cell/land phone mail, and fax
- Where do you send the warning to?
Union level, CPP member & volunteer
What is communication means? Cell phone, direct communication
- How long does it take the time usually since receiving till sending?
20 minutes
- Contents of warning :
11 levels warning 6 levels warning Others: contents is very simple, evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.
- Let us know your evaluation on existing warning contents. Do you have any improvement plan?
We think existing content warning content is good enough but we have no improvement plan so far.
- Let us know your evaluation on existing communication means. Do you have any improvement plan?
Cell phone is main communication means at the moment we also use mosque mike during emergency. The mosque mike has wider coverage since all the mosque have not mike but more than 20% have mike (people vary on percentage of having mike in community, in the union and village level the percentage of having mike is fewer and upazila or district level)
Since we have no fund we do not think to improve the plan so far.
- When you send the warning, do you add some information on or take some information away?
Yes, we add information but very little quantity. Sometime we add local message more and we add one more level of warning.

9. Records

Learning from past disaster is very important. Records of disaster make it possible therefore the records are vital at all level local agencies.

(1)Activities Records

- Is there obligation that you record normal times activities and report it?
NO
- If yes, could you provide a copy of the report? Or let us take a photo of it
- Is there obligation that you record activities in disaster and report it? YES
- If yes, could you provide a copy of the report? Or let us take a photo of it

(2)Damage Records

- Is there obligation that you take a survey of disaster damage and report it?
- We don't know whether it is obligation or not but we conduct survey on disaster damage and report it.
- If it is not your business, who is in charge? Could you fill below table?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP, DMC	
	Injured	UP	
	Evacuees	CPP	
Private Sector	Building		
	Agriculture	UP, Agriculture dept.	
	Fisheries	Fisheries dept	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike		
	Public Utilities	LG	
Generalization, Statistics			

10. Conditions of Past Disasters

- Let us know ruinous conditions given by past disasters of recent years.
- If you have records, could you provide a copy of the records? Or let us take a photo of it
- If there are not records, but you have data on your note or something, could you fill the below table as possible.

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Outline					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Others					

11. Actual Activities in past specific cyclone

We try to grasp real condition of warning and evacuation in past specific cyclone.

We select cyclone_____in district_____for this survey.

- If you have activities record on this cyclone, could you try to add time series on each activity. NO
- If you do not have record on this cyclone, could you try to fill the next table using your diary, memo and so on as possible?

#	Situation Approaching Ongoing Passing	Date	Hour	Receive /Send	From Whom/To Whom Upper Agency Lower Agency Other Agency NGOs Residents Public Media	Type Notice Recommendation Direction	Means		Contents	Activities	Issues
							Fixed-line phone Cell-phone Radio Loudspeaker Face to Face	Speaking Fax Email			
1											
2											
3											
5											
6											
7											
8											
9											
10											
11											
12											
13											

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below): a

a) Interview b) Filling in this paper c) Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Ramiz Uddin	UP secretary, Amkhola	Union Parisad	01716004856
Mr. Anwar mridha	Chairman, Amokhola UP	Union Parisad	
MA. Barek Mridha	Head, CPP Galachipa	CPP	01812167581

(3) Responding Date and Hour

29 / 03 / 2013

(4) Responding Place

Amkhola UP

(5) Interviewer : Mustafizur Rahman

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

DMC & CPP

(2) Organization Chart

The office could not provide Organization chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

DMC & CPP

(3) Number of Human Resources

Quorum: 11 Enrollments: 21

(4) Population and Number of Household

Year: 2011 Source: UP estimation

Population:

Male: 15577 Female: 15039 Total: 30,616

Number of Household: 8500 (wild guess)

(5) Area

52 skm (approx) Square kilometer/Hectare

(6) Number of Subordinate Government Agencies

Agriculture, education, livestock, LGED, health, postal, Bank

(The agencies are not subordinate but this agencies have their office at union level)

Let us know the number of subordinate government agencies. 7

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram	22		
Number of Para			
Number of Polder	1		

(7) Outline of Industry

Amkhola union has no industry, people are living on agriculture and fisheries and service sector. Agriculture and fish culture are manual based.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

A photocopy of jurisdiction area map was provided where location of different union, roads, demarcation line of union, rivers are mentioned.

3. Meteorological/ Hydrologic Observation Station:

At least ten years ago there was hydrological Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

It is necessary indeed.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	no	
Inside water inundation	Twice per month	Only the area where water regulator does not work well
Cyclone	Thrice in 40 years	

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G:

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C	D	C,A	E,F,C	F	F	E	C,E
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: 21 (DMC)

Part-time:

(2) Office and Equipments: NO separate Office and Equipments

Sole use office room

Equipments : Desks File cabinets

 Copy machine Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training: NO
- Emergency drill at district/ Upazila/ Union level: Once in a year by CPP
- Equipment maintenance : NO
- Inter organizational/Stakeholder meeting: NO except with CPP
- Drawing/Reviewing/Updating hazard map: NO hazard map
- Residents awareness campaign: No idea
- Residents evacuation drill: No information

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Budget:

Expenditure:

NO budget except disaster/emergency time.

height of tidal surge etc.

- Do you have any issues and problems regarding warning contents?

Specific local issue should incorporate in warning contents

- Do you have any issues and problems regarding communication method?

We can communicate 1 to 1 (one person to another one) by cell phone which is very slow. All number are in hand instantly, concern people may change cell number

- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 30%
- How many percent does Mosque Microphone cover in the area? 40%
(But 20% mosque have microphone)

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

It is our idea that metrology department issue order

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance No idea

(2)Shelter Management: SMCs are managing

(3)Rescue and Search:

At the time of disaster/emergency we do not search or rescue but soon after the passing of cyclone we do if it is necessary

(4)Sufferer Help: We try to help according to our resources

(5)Damage Survey

The survey conducted with the help of CPP

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

We have no budget At union level, sometime DMC/chairman expend from other source if there is availability during disaster.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below? During the disaster we ask people to take shelter at their nearest one.
 - zoning for each evacuation shelter
 - evacuation route
 - shelter capacity: 400-450 persons per cyclone shelter
 - storage of food and water, and so on: NO

(2)Current Condition of shelters

- Number of shelters : Existing: 4 (1 is expired the date) Plan:
- Total capacity : 1200-1300 people Population ratio : 3 for 30,000 people
- Solo use: Multi use: shelter cum primary school.
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management
- Cost burden : LGED/GoB

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? NO
- Do you have obligation to record activities under state of emergency and report it? NO

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
We conduct survey if the upazila office instructs to do so and we do not know whether it is obligation or not. Generally we do damage survey and record it and it is required. Sometime different agencies are requesting information damages and we provide.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees		
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike		
	Public Utilities	UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	220	190			
Highest Sea Level	8-9	9-10			
Total Rainfall	More than Aila				
Dead Missing	26	1			
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area	70%	70%			
Inundation Depth	2 ft	4 ft			
Agriculture Damage	90%	80%			
Fisheries Damage	70%	90%			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities are ignored due to budget crisis.

Training and awareness program are much neglected

✓ Alert and Warning Stage:

No adequate logistic to make people alert or warn

Hand mikes are out of ordered.

No siren or VHF set are available

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

If Chairman is out of office or stay outside the jurisdiction no action taken place

Damage survey are manipulated

Logistic crisis

Access road to shelter is not uninterrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1													
2													
3													
5													
6													
7													
8													
9													
10													
11													
12													
13													

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Mr. Harun-ur-rashid	Upazilla Chairman	Upazila parisad	01715806432
MA. Barek Mridha	Head, CPP Galachipa	CPP	01812167581

(3) Responding Date and Hour

26 /03 / 2013 Hour: 11.30 pm to 2.30

(4) Responding Place: Ratandi Taltoli high school

(5) Interviewer: Mustafizur Rahman

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization: DMC. Ratandi taltoli Union Parisad

(2) Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart? DMC & CPP

(3) Number of Human Resources 39

Quorum: 19 Enrollment:

(4)Population and Number of Household

Year: Source:

Population:

Male: 11216 Female: 11371 Total: 22,587

Number of Household: 6500

(5)Area

96 Square kilometer/Hectare

(6)Number of Subordinate Government Agencies

BRDB, Agriculture, education, livestock, LGED, health, Family planning, postal

(The agencies are not subordinate but this agencies have their office at union level, they have to work with coordination of UP)

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram	28		
Number of Para			
Number of Polder	1 (#55/1)		

(7)Outline of Industry

Ratandi Taltoli union has no industry, people are living on agriculture and fisheries and service sector. The productions of Agriculture and fish culture are manual based.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	60%	
Fisheries	10%	
Manufacture	1%	
Service	29%	

(8)Map: Could not provide Map

- Could you provide map of District/ Upazila/ Union, if any?

3. Meteorological/ Hydrologic Observation Station

No Meteorological and Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

It is necessary indeed.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	no	
Inside water inundation	Twice per month	Only the area where water regulator does not work well
Cyclone	Thrice in 40 years	

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G:

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: SMC (School management committee) J:

E: NGO K:

F: UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,A	C	D	C,A,F	E,F	F	F	E	E
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: 36 (DMC) & 131 (CPP) Part-time:

(2) Office and Equipments: NO separate Office and Equipments

Sole use office room

Equipments : Desks File cabinets

Copy machine Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training: NO
- Emergency drill at district/ Upazila/ Union level: NO drill
- Equipment maintenance : NO
- Inter organizational/Stakeholder meeting: YES
- Drawing/Reviewing/Updating hazard map: NO hazard map
- Residents awareness campaign: NO idea
- Residents evacuation drill: NO idea

6.3 Financial Status

Let us know the finance statements in normal time activities in the last three years. NO budget except disaster/emergency time.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any. NO policy

7. Activities under State of Emergency: We have no experience

7.1 Emergency Plan: Have no idea

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

We follow what Upazila office ask to do or not to do

- Please describe gaps between the SOD and actual activities? If any. N/A

(1)Number of Human Resources

- How many staffs are mobilized?
- Do you have any regulations/ rules for mobilization of staffs?

(2)Office and Equipments

- Where is emergency head quarter office set up?

Same as normal time

DC/ UNO/ PIO office

Others:

- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?

We receive from Upazila office & CPP control room. They use either or both VHF, HF wireless set. From our end we make phone call to the Unit leader and volunteer. The cell phone service came recently here later and phone user are very few number at that time. We used mike of mosque to warn people.

- Where do you send the warning to? What is communication method?

Mosque MIKE, Cell phone, direct communication

- How long does it take usually since receiving till sending information?

More than 1 hour requires to cover all the union

- Contents of warning : Which warning signal levels do you use?
11 levels 10 Levels 6 levels Others:
Evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.
- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?
We can communicate 1 to 1 (one person to another one) by cell phone which is very slow. All mosques have not Mike, only 20% might have. We cannot cover all the area through mosque's mike; we guess at best 30% area can be covered at the moment by these Mike. The numbers of our communicating equipment is inadequate and are out of order.

Since we have no electricity, electricity-based equipment are not uses properly

- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area?
65-70% Household have cell phone but access to network is not available, 5 area out of 9 (nine) has faces connectivity problem, in terms of percentage it may be 70% area ..
- How many percent does Mosque Microphone cover in the area? 30-35%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
The order comes to us from Upazila office

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance: No idea

(2)Shelter Management: SMCs are in charge of management

(3)Rescue and Search

CPP volunteers play important role on rescue activities.

(4) Sufferer Help

We try to help according to our resources and rich people came forward to help them

(5) Damage Survey: The UP DMC conduct the survey with the help of CPP

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

We have no budget at union level, sometime UP expend from other source if there is availability during disaster.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below? : we have no evacuation plan
 - zoning for each evacuation shelter : NO
 - evacuation route
 - shelter capacity: Average capacity is 400 person
 - storage of food and water, and so on: No food item storage

(2)Current Condition of shelters

- Number of shelters : Existing: 3 Plan:
- Total capacity : 1200 Population ratio 3 for 22000
- Multi use : shelter cum primary school.
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : Constructed by LGED but no maintenance budget

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? NO
- Do you have obligation to record activities under state of emergency and report it? Have no idea

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
We conduct survey if the upazila office instructs to do so and we do not know whether it is obligatory or not. Generally we do damage survey and record it.
There is common structured format for all the union to collect data.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP	
Private Sector	Building	LGED	
	Agriculture	Department of agriculture	
	Fisheries	Department of Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWDB	
	Public Utilities	UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4
Name	Sidr	Aila		
Type	cyclone	Cyclone		
Start Date	13/11/2007	25/05/2009		
End Date	15/11/2007	25/05/2009		
Outline				
Maximum Wind Velocity	240	190		
Highest Sea Level	14	15		
Total Rainfall				
Dead	0	0		
Missing	0	0		
Injured	8	0		
Total Collapse Houses	700	1200		
Half Collapse Houses	1000	4500		
Total Collapse Dike	1.00 km	10 km (road)		
Half Collapse Dike	1.00 km	15 km (road)		
Inundation Area	20%	15%		
Inundation Depth	2 ft	4 ft		
Agriculture Damage	6584 Acres	600 Acres		
Fisheries Damage	250 Acres	20 number		
Livestock (number)	70	300		
Mosque & Temple Damage (number)	9	50		
Number of affected School & Collage fully	2	10		
Number of affected School & Collage partly	10	31		
Others				

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities are ignored due to budget crisis (UP).

Training and awareness program are held.

✓ Alert and Warning Stage:

No adequate logistic to make people alert or warn

Hand mikes are out of order

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1													
2													
3													
5													
6													
7													
8													
9													
10													
11													
12													
13													

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Md. Jahangir Hossain	UNO	Upazila Parisad	01712533153
Md. Shafiqul Islam	PIO	Upazila Parisad	01718150542

(1)Responding Date and Hour

03 / 04 / 2013

(2)Responding Place: UNO office, Kalapara

(3)Interviewer: Mustafizur Rahman

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization; upazila parisad

(2)Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart

- Which departments/units are in charge of disaster management in the latest organization chart?

Upazila Disaster Management Committee, PIO and CPP office are responsible for disaster management at upazila level. Upazilla chairman

works as a head at upazila level. During disaster, a coordination among different unit are in charge of disaster management. CPP and PIO play an important role to manage the disaster.

(3)Number of Human Resources

Quorum: Enrollment:

(4)Population and Number of Household

Year: 2011 Source: BBS

Population:

Male: 120,514 Female: 117,317 Total: 237,831

Number of Household:

(5)Area

491.89 Square kilometer

(6)Number of Subordinate Government Agencies: 30

Let us know the number of subordinate government agencies.

(The agencies are not subordinate but this agencies have their office at union level, they have to with coordination of UP)

Respondents	District	Upazila	Union
Number of Upazila	30		
Number of Union			
Number of Gram			
Number of Para			
Number of Polder			

(7)Outline of Industry

Once kalapara was famous for rice mill, oil mill etc. The tourism industry in Kuakata has been developed very fast her. There are few small industries are running here like ice factory, cold-storage, plastic industries, fish hatchery, dock for trawler maintenance. Agriculture and fish culture are manual based.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	48%	
Fisheries	8%	Most (90%)

Business/ Manufacture	12%	
Service	20%	
others	12%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

The same map is available in website of GoB

3. Meteorological/ Hydrologic Observation Station: Fortunately both observation centre is active here

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

In many upazila, there is Meteorological/ Hydrologic Observation Station but CPP or concern body does not use their report due practice or lack of coordination. It is not clear that whether the hydrological centre are collecting data regularly or not or these are active or inactive.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations? YES
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

It is possible as both observation centre are situate here and it is necessary indeed.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	No	
Inside water inundation	Twice per month	Only the area where water regulator does not work well and outside the polder
Cyclone	Thrice in 40 years	

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? YES
- Please describe gaps between the SOD and actual activities? If any.

May be there is gap but we work as per our ability and resources.

(1) Number of Human Resources

- How many staffs are mobilized?
- Do you have any regulations/ rules for mobilization of staffs?

(2) Office and Equipments

(No particular office and equipment for state of emergency or emergency time and the logistic for normal and emergency time is same)

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others:
- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receiver

7.2 Warning

(1) Warning

- Where do you receive the warning form? : From control room, CPP head quarter, Zonal office, District office

What is communication means? : HF wireless, Cell/land phone mail, and fax (rare)

- Where do you send the warning to? : Union level CPP member & volunteer, UP member, DMC

What is communication means? Cell phone, VHF wireless, direct communication

- How long does it take the time usually since receiving till sending?
20 minutes
- Contents of warning :
11 levels warning 6 levels warning Others:
Contents is very simple, evacuate as soon as possible, ask fisherman community and boat, motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.
- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?
We can communicate 1 to 1 (one person to another one) by cell phone which is very slow. Radio (good quality) is necessary for unit leader.
- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area? 90%
- How many percent does Mosque Microphone cover in the area? 70%
- How many percent does commercial/govt. power supply cover the area?
10%
- How many percent do residents have solar power system? 7%
- How many percent do mobile phone network cover the area? 90%
- How many percent do residents have mobile phones? 90%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
CPP at upazila level. Local administration decide evacuation order.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance No idea

Fire service under the ministry of home they are responsible for fire accident. In every upazila have suppose to station, the total 7000 worker are deployed in this system

- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3) Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB & NGO sponsored

(4) Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? NO
- Do you have obligation to record activities under state of emergency and report it? NO idea

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
We conduct survey if the upazila office instructs to do so and we do not know whether it is obligatory or not. Generally we do damage survey and record it and it is required. Sometime different agencies give requisition for information on damages and we provide.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP, Police, UNO	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Item	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	220	190			
Highest Sea Level	14	15			
Total Rainfall	More than Aila				
Dead	94	0			
Missing	0	0			
Injured	1400	145			
Total Collapse Houses	12970	5227			
Half Collapse Houses	21750	12901			
Total Collapse Dike	0	8.28 km			
Half Collapse Dike	270 km	51.00 km			
Inundation Area					
Inundation Depth					
Agriculture Damage	43250 (Acre)	2366.52 (Acre)			
Fisheries Damage					
Livestock	2450 (no.)	3,14,400 tk.			
Poultry		2,05,344 tk.			
Prawn		86,55,000 tk.			
Affected Mosque/Mondir	315	285			
No. of affected School/ College	163	68			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities are ignored due to budget crisis (UP).

Training and awareness program are implemented by NGOs like Red-Crescent, Caritas, Save the children etc.

✓ Alert and Warning Stage:

No adequate logistic to make people alert or warn

Every CPP Unit leader should have Radio

Hand mikes are out of ordered.

CPP uses Hand siren/ VHF set

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Damage survey are manipulated

Access road to shelter are interrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 7%

- What were the causes of deaths? Please select below.
 1. Warning didn't deliver to the residents.
 2. They stayed the houses even after the warning.

(Please describe the reason:

Few people died on the way to cyclone centre, the access road was not usable. Fisherman community was the most vulnerable, 20 fisherman died during sidr from one union (latachapli) of Kalapara Upazila. fishermen use to go more than 150 km away in the deep sea to catch fish. They could not back to coast due to long distance. Even many boat have no Radio. They have no life jacket. If any boat sinks no body come to rescue.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13. 11	3pm	Rec	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order	wireless	speaking	Distance cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper agency	Lower agency	4	notice	wireless	speaking	cautionary		
3	ongoing	14 Nov	9 pm	R/S	Upper agency	Lower agency	6	Notice Recommend	wireless	speaking	evacuate		
4	ongoing	14 Nov	12pm	R/S	Upper agency	Lower agency	7	Notice Recommend	All	speaking			
5	Passing	15 Nov	12 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
6	Passing	14 Nov	6 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

20 fishermen died during Sidr from Latachapli union of Kalapara Upazila. Fisherman can detect or identified the information of cyclone by their own way. They said that at that time ocean water become hot and they understand by water temperature and get message a lot of ahead than metrological observation center.

Many fishermen use to go more than 150/200 km away in the deep sea to catch fish. This community people are the most vulnerable. They could not back to coast due to long distance. They have no life jacket. Even they have no Radio. If any boat sinks no body come to rescue. Even there is no rescue boat.

Fisherman said during cyclone fish catchment is increased dramatically. Fisherman cannot control their greed at that time. They think the cyclone could not harm them rather catching fish will be profitable. But time is running out. They have to think that life is more valuable than fish.

Another group of people fall in death trap of cyclone; people who live outside the polder.

Old and pregnant women faced the sever problem.

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People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below): a

a) Interview b) Filling in this paper c) Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Dr. Siddiqur Rahman	Local elite	DMC	01733252128
Ms. Shahida Begum	Chairman, Latachapli UP	Union Parisad	01757335229
Abul Bashar Hawlater	UP member	Union Parisad	01733299843
Mr. Moniruzzman	UP member	Union Parisad	01713688966
Ms. Nazma Akter	UP member	Union Parisad	01732776279

(3) Responding Date and Hour

30 / 03 / 2013

(4) Responding Place

Latachapli UP office, Kalapara

(5) Interviewer: Mustafizur Rahman

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

DMC

(2) Organization Chart

The office could not provide Organization chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

DMC & CPP

(3) Number of Human Resources

Quorum: 25 Enrollments: 37

(4) Population and Number of Household

Year: 2011 Source: UP estimation

Population:

Male: 13,226 Female: 12,015 Total: 25,241

Number of Household: 5500 (approx.)

(5) Area

28.35 square km (approx) Square kilometer/Hectare

(6) Number of Subordinate Government Agencies

BRDB, Agriculture, education, livestock, LGED, health, Family planning, postal, social welfare, youth development, Bank

(The agencies are not subordinate but these agencies have their office at union level, they have to work with coordination of UP)

Let us know the number of subordinate government agencies. 7

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			27
Number of Para			
Number of Polder			1

(7) Outline of Industry

The tourism industry is developed very fast here but govt. separated it from the union by declaring City Corporation. There are few small industries running here like ice factory, cold-storage, plastic industries, fish hatchery, dock for trawler maintenance. Agriculture and fish culture are manual based.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

--	--	--

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

A photocopy of jurisdiction area map was provided where location of different union, roads, demarcation line of union, rivers are mentioned.

3. Meteorological/ Hydrologic Observation Station:

There was a hydrological Observation Station at least 12 years ago.

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

It is necessary indeed.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	no	
Inside water inundation	Twice per month	Only the area where water regulator does not work well and outside areas of the polder
Cyclone	Thrice in 40 years	

The polder-47 was build at 1965 in this area was in good condition for twenty years. At that time the height was 24 ft but it reduced to 15 ft. Out of 6 water regulators, 5 are not functioning well. Saline water inclusion during high tide create problem to grow agriculture on the other than it cannot remove the over rain-fall.

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: 37 (DMC)

Part-time:

(2) Office and Equipments: NO separate Office and Equipments

Sole use office room

Equipments :	Desks	File cabinets
	Copy machine	Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training: NO
- Emergency drill at district/ Upazila/ Union level: Four (\$) mock drills organized by NGOs last year
- Equipment maintenance : NO
- Inter organizational/Stakeholder meeting: YES
- Drawing/Reviewing/Updating hazard map: NGOs has developed some hazard map but UP has no information.
- Residents awareness campaign: By NGOs
- Residents evacuation drill: By NGOs

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Budget:

Expenditure:

NO budget except disaster/emergency time.

motor vehicle to take shelter in safe place, velocity of wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
- Do you have any issues and problems regarding communication method?

We can communicate 1 to 1 (one person to another one) by cell phone which is very slow. All necessary phone number are not kept /recorded or maintained. The concern people may change cell number, the changes are tracked

- Do you have communication radio in the district/ upazila/ unit? NO
- How many percent does mobile phone cover in the area?

70% Household have cell phone. All the area of this union have network coverage though sometimes it interrupts.

- How many percent does Mosque Microphone cover in the area? 100%
(90% mosque have microphone)

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

It is our idea that metrology department issue order

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance No idea

(2)Shelter Management: SMCs are managing

(3)Rescue and Search:

At the time of disaster/emergency we do not search or rescue but soon after the passing of cyclone we do if it is necessary. We think it is upazila administration who is responsible for rescue.

(4)Sufferer Help:

We try to help according to our resources and rich people came forward to help them

(5) Damage Survey

The survey conducted by UP with the help of CPP

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

We have no budget at union level, sometime UP expend from other source if there is availability during disaster.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below? During the disaster we ask people to take shelter at their nearest one.
 - zoning for each evacuation shelter NO
 - evacuation route: Access road are not in good condition
 - shelter capacity: 400-450 persons per cyclone shelter
 - storage of food and water, and so on: NO

(2)Current Condition of shelters

- Number of shelters : Existing: 7 Plan:
- Total capacity : 3000+ people Population ratio : 7 for 25,000 people
- Solo use: Multi use: shelter cum primary school.
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Have no idea
- Cost burden : LGED/GoB

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? NO
- Do you have obligation to record activities under state of emergency and report it? NO

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
We conduct survey if the upazila office instructs to do so and we do not know whether it is obligatory or not. Generally we do damage survey and record it and it is required. Sometime different agencies give requisition for information on damages and we provide.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	CPP	
Private Sector	Building	LGED	
	Agriculture	ARICULTURE	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	220	190			
Highest Sea Level	14	15			
Total Rainfall	More than Aila				
Dead Missing	26	1			
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike	3 point				
Half Collapse Dike					
Inundation Area	20%	15%			
Inundation Depth	2 ft	4 ft			
Agriculture Damage	90%	80%			
Fisheries Damage	70%	90%			
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr or Aila
- Record of activities including time series, if any. NO
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Normal activities are ignored due to budget crisis (UP).

Training and awareness program are implemented by NGOs like Red-Crescent, Caritas, Save the children etc.

✓ Alert and Warning Stage:

No adequate logistic to make people alert or warn

Hand mikes are out of ordered.

The installation Siren at UP office is under process,

CPP uses Hand siren/ VHF set

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Damage survey are manipulated

Access road to shelter are interrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

Fund is major obstacle

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1													
2													
3													
5													
6													
7													
8													
9													
10													
11													
12													
13													

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md.Mahamudul Hasan Sujan Molla	UP Chairman	Union council	01717711690
Md.Oahed Masud	UP Secretary	Union council	01715717687
A.Khaleak	UDMC Member	Union council	01796141751
Mysbahuddin Babul	Union Team Leader	CPP	01738530877
Md. Motaleb Howlader	Union Team Leader	CPP	01743943417

(1) Responding Date and Hour

03 / 04 / 2013 (11:00am – 1:00 pm)

(2) Responding Place:

Tiakhali union parisad

(3) Interviewer:

Mustafizur Rahman,
Sukhen & Hashan



2. General Information of Organization (District/ Upazila/ Union)

Name of Organization: DMC, UP & CPP

(1) Organization Chart

- Could you provide the latest organization chart? if any.

The office could not provide Organization chart but know the organ gram.

- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman, DMC member and CPP are responsible for disaster management where UP chairman has to play main role. During disaster village police play an important role to deal the disaster.

(2)Number of Human Resources: UP DMC -33, CPP- 135

Quorum: One third of the member

Enrollment:

(3)Population and Number of Household

Year: 2012 Source: UP database

Population:

Male: 7,140

Female: 7,100

Total: 14,240

Number of Household: 3900

(4)Area

10 Square kilometer

(5)Number of Subordinate Government Agencies: 19

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			9
Number of Para			
Number of Polder			1

(6)Outline of Industry

Once kalapara was famous for rice mill, oil mill etc. The tourism industry in Kuakata has been developed very fast. There are few small industries are running here like ice factory, fish hatchery. Agriculture and fish were manually produced. Water melon is grown recently. Farmer exports to other area of Bangladesh.

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	45%	
Fisheries	5%	
Business/ Manufacture	15%	
Service	25%	
Others	10%	

(7)Map

- Could you provide map of District/ Upazila/ Union, if any? YES

3. Meteorological/ Hydrologic Observation Station

6. Normal Time Activities

No budget is allocated for normal activities. Some international NOGs arrange mock drill, awareness program and training for community people.

6.1 Structural Framework

(1)Number of Human Resources NO separate Office and Equipments

Full-time: Part-time:
UP- DMC: 33, CPP-135

(2)Office and Equipments NO separate Office and Equipments

Sole use office room

Equipments : Desks File cabinets
Copy machine Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? NO
- Planning/Reviewing/Updating disaster management plan : NO
- Staff training:
No UP member/Chairman got training on disaster issue or SoD.
- Emergency drill at district/ Upazila/ Union level: NGOs arrange occasionally.
- Equipment maintenance : NO

UP have no equipment for early warning but CPP have some. If the maintenance is required the concern equipment is surrendered to upper CPP they will manage maintenance but the system is very slow and most of the case the equipment are beyond repairable.



HF Wireless and operator, Kalapara



A killa without maintenance



Megaphone, few are found good condition

- Inter organizational/Stakeholder meeting: only at disaster time.
- Drawing/Reviewing/Updating hazard map: We found in latachapli union which is far remote but no hazard map seen in Tiakhali Uuion.
- Residents awareness campaign: No
- Residents evacuation drill: No

6.3 Financial Status:

NO budget except disaster/emergency time. Chairman expense from own pocket

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

UP is newly elected and no idea on SoD. The current UP members are elected just Two year ago

- Please describe gaps between the SOD and actual activities? If any.

SoD are not followed but they work as per their ability and resources.

(1)Number of Human Resources

- How many staffs are mobilized?
- Do you have any regulations/ rules for mobilization of staffs? YES

(2)Office and Equipments

(No particular office and equipment for state of emergency or emergency time

wind and possible height of tidal surge etc.

- Do you have any issues and problems regarding warning contents? NO
 - Do you have any issues and problems regarding communication method?
CPP and union DMC can communicate 1 to 1 (one person to another one) by cell phone which is very slow. UP also warn people by commercial megaphones available in this area. Though Cell phone is main communication means at the moment UP also use mosque mike during emergency.
 - Do you have communication radio in the district/ upazila/ unit? NO
 - How many percent does mobile phone cover in the area? 99%
 - How many percent does Mosque Microphone cover in the area? 95%
- This union has 38 Mosques
- How many percent does commercial/govt. power supply cover the area?
10%
 - How many percent do residents have solar power system? 8%
 - How many percent do mobile phone network cover the area? 95%
 - How many percent do residents have mobile phones? 90%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
UNO with upazila DMC, PIO and CPP issue warning and evacuation order.
Other downward agencies are instructed to follow the order.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

During the disaster local government bodies, CPP, DMC work together. They call an emergency meeting and plan for the evacuation. In many occasion they use force (police) to evacuate people. UP informed that previous UP evacuated people who live outside the polder during Sidr.

(2)Shelter Management:

During meeting with CPP, they demand to give them management authority though they have no SC management experience. Normally SMC (school management committees) manage the shelter. SMCs have regular activities. School teacher have to go school daily. SMC, particularly headmaster is aware about the role during disaster. People (PIO, SMC) think it is better to keep the

authority to SMC but CPP member can be included in SC management committee.

(3)Rescue and Search:

Rescue and search is the weaker point of disaster management. CPP are motivated but lack of equipment, very scope they have for the victim. Local administration do not search or rescue but soon after the passing of cyclone it does if it is necessary. Fire service, Bangladesh Army or naval force deployed in evacuation if it is required.

(4)Sufferer Help:

Local government agencies try to help according to their resources and rich people came forward to help them. CPP, red-crescent, and different NGO's play important role and work together to help the sufferer.

(5)Damage Survey: The survey conducted by UP with CPP involvement

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Union parisad or Upazila parisad have no budget but UNO or chairman give requisition to upper management to allocate. District administration can allocate budget considering disaster situation.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below? During the disaster we ask people to take shelter at their nearest one. Tiakhali is in blessed position that kalapara municipality is adjacent area where many house works a shelter place.

➤ zoning for each evacuation shelter NO.

Cyclone shelter should build considering the optimum use like nearest distance, access road, multi use. But now it consider only multiuse. Primary school give land and LGED construct. Zoning concept is not followed.

- evacuation route: Access road are in good condition
- shelter capacity: 350-300 persons per cyclone shelter
- storage of food and water, and so on: NO

(2)Current Condition of shelters

- Number of shelters : 3 Existing: 80% good condition Plan:
- Total capacity : 800-900 Population ratio 3 for 14000 people
- Solo use: none Multi use: All
- Other purposes of multiuse shelter: shelter cum primary school.
- Do you think the shelters have enough height for tidal wave/ flood? YES

(3)Operation / Management

- Owner : LGED/GoB
- Operation/ Management : Mostly SMC
School management committee generally and school head teacher particularly responsible to maintain the SC. During the disaster time, headmaster opens the door. CPP and Union Parishad take control over the shelter.
- Cost burden : LGED/GoB & NGO sponsored

(4)Shelter Management Manual

- Do you have a shelter management manual? NO

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? No idea
- Do you have obligation to record activities under state of emergency and report it? No idea, perhaps YES

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
As per law Union Parisad is responsible to conduct survey. Upazila parisad may assign someone from other agency to follow up or assist to collect data and finalize report. Generally UP do damage survey and record it and it is required. Aid agencies give requisition for information on damages and UP provides.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Upazila admin. UP	
	Injured	UP	
	Evacuees	UNO, UP, CPP, Police	
Private Sector	Building	LGED	
	Agriculture	Agriculture	
	Fisheries	Fisheries	
	Manufacture		
Public Sector	Road, Bridge	R&D	
	Dike	BWB	
	Public Utilities	UP	
Generalization, Statistics		UP, upazila parisad	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Items	1	2	3	4	5
Name	Sidr	Aila			
Type	cyclone	Cyclone			
Start Date	13/11/2007	25/05/2009			
End Date	15/11/2007	25/05/2009			
Outline					
Maximum Wind Velocity	220	190			
Highest Sea Level	14	15			
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Livestock					
No. of Cyclone Shelter					
Affected School, College Mosque/ Modir					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr
- Record of activities including time series, if any. YES
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

No Training and awareness program for CPP, DMC or community people.

NGOs like WAVE Foundation, Red-Crescent, Caritas, Save the children etc.

have few activities on disaster

No mock drill took place for years and budget crisis

✓ Alert and Warning Stage:

No adequate logistic to make people alert or warn

Mosque Mike is very effective to disseminate warning

It is difficult to mobilize people to CS

Hand mikes are out of order.

✓ Disaster Stage

No vehicle for rescue

Quick response is not possible

Road become in-accessible at the time of cyclone

Access road to shelter are interrupted

✓ Rehabilitation Stage

Quick rehabilitation is not possible

CPP play important role to deal disaster but is not responsible/entitled to rehabilitate activities

Fund is major obstacle

- How many percent of residents did evacuate to shelters? 6%

- What were the causes of deaths? Please select below.
 1. Warning did not deliver to the resident
 2. They stayed the houses even after the warning

(Please describe the reason:

It is our observation that people receive warning, maybe it is not well ahead of time but they are not interested to move from their houses. The houses are not cyclone tolerant and it fall down on dweller.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	13. 11	3pm	Rec	Upper agency	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	3	-Notice -Recommendation -Order	wireless	speaking	Distance cautionary	no	no
2	ongoing	14 Nov	6 pm	R/S	Upper agency	Lower agency	4	notice	wireless	speaking	Cautionary		
3	ongoing	14 Nov	9 pm	R/S	Upper agency	Lower agency	6	Notice Recommend	wireless	speaking	Evacuate		
4	ongoing	14 Nov	12pm	R/S	Upper agency	Lower agency	7	Notice Recommend	All	speaking			
5	Passing	15 Nov	12 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
6	Passing	14 Nov	6 pm	R/S	Upper agency	Lower agency	10	Notice Recommend order	All means	speaking			
7													
8													
9													
10													
11													

12. Others

Please describe other issues and problems or important information.

- The early warning were not functioning during Sidr said journalist who were present in the group discussion with MDC. Before cyclone Sidr, there was warning on tsunami like to be occurred at coast area. Later the announcements were withdrawn and people thought this time (sidr) will not attack on us. The announcements of sidr treat as rumor that cause ignoring the warning and causes human causality and damage of resources
- The Tiakhali union is fortunate that both the Meteorological and Hydrologic Observation Station is very close to the union. The Radar station provides regular message and data for Dhaka office/central office. The central office analyze and synthesis information and delivered to the concern agencies. It is not clear that whether the hydrological centre are collecting data regularly or not or these are active or inactive.
- CPP of Kalapara demand to give them management authority of cyclone centre. On the other hand school teacher says they have daily attachment with the centre as SC is school in normal time. Their recommendation is it is better to keep the authority to SMC but CPP member can be included in SC management committee or we can handover our responsibility at the time of disaster



Tiakhali Union Map



Equipment and logistics of information services

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Anol Chandra Das	Deputy Commissioner	DC Office, Pirojpur	01715108805
Sujit Devnath	Nezarot Deputy Collector (NDC)	DC office Pirojpur	01730036515
Ishrat Zahan	DRRO	Disaster relief and rehabilitation office	01710677996
Shah Alom	Radio Operator	Disaster relief and rehabilitation office	01715782721
Anser Ali	Head clerk	Disaster relief and rehabilitation office	01915189053

(3)Responding Date and Hour

11 / 04 / 2013 at 10.00 am

(4)Responding Place

DC office, Pirojpur

(5)Interviewer

Shariful Islam



DRRO, Pirojpur district

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

DRRO Office, Pirojpur, Bangladesh

(2)Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

Disaster relief and rehabilitation office (DRRO)

(3)Number of Human Resources

Quorum: 8 Enrollment:

(4)Population and Number of Household

Year: 2011 Source: Population census

Population:

Male: 640000 Female: 665202 Total: 1305202

Number of Household: 302001

(5)Area

1307.61 Square kilometer/Hectare

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	7		
Number of Union	52 and 03 pourcesava		
Number of Gram	648		
Number of Para/mouza	409		
Number of Polder	295.79 km embankment		

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		In the sidr, Total crop land in Pirojpur district is 95,839.13 hectors where 11,746.43 was fully damaged and 69,920.88 were partially damaged
Fisheries		29,902 hectors of pond fisheries and shrimp cultivations land were damaged where 4058.60 were fully damaged.
Manufacture	1500	Due to sidr 67 garments and agro processing industry were fully damaged where 215 were partially damaged.

Service	103000	

(8)Map

- **Could you provide map of District/ Upazila/ Union, if any?**

Yes



Map of Pirojpur district

3. Meteorological/ Hydrologic Observation Station

- **Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.** No hydrologic observation station

Rainfall:

Wind:

River level:

Sea level:

- **Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?** no
- **If yes, do you have map of these locations or can you put the locations on the map?** no
- **Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?**

Yes, it is really necessary to provide accurate warning. Area based observation data will be more effective. Sometimes people do not care about the warnings because people are getting used to with the wrong data.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	In last 2 years 2 times.	These two floods have damaged most of the agricultural land and due to the saline water agricultural land lost its productivity for few years. People, who live by the bank of the river, lost their livelihood.
Flash flood	Once a year specially in the rainy season.	Water related Diseases spread at that time
Inside water inundation		
Cyclone	2007 and 2009	It washed away everything. Lots of people died (409). Still lots of people are missing.

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: CPP

B: Disaster Relief & Rehabilitation Office H: Brac

C: Upozila disaster management committee I: RICK (NGO)

D: Union Disaster management committee J: Dak diye jai(NGO)

E: Ward disaster management committee K: Muslim aid (NGO)

F: Red crescent

L: School Management committee

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District	B,G,A	G	L	A,B, F,E,G	B,C,D,I,J,K	D	D, C	I,J,k	D,G
Upazila									
Union									
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: 22/ 10 at dc office

Part-time: 2

(2) Office and Equipments

Sole use office room

Equipments : 4 Desks 4 File cabinets
 1 Copy machine 2 Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- **Do you have disaster management plan?**
 Whatever government plan, they implement that. They have standing orders. Normally in district level, they follow it.
- **Planning/Reviewing/Updating disaster management plan** ..In Pirojpur district, there is a Disaster management planning committee and emergency response committee. Update of SOD done by the request of DRRO.
- **Staff training.....** They provide staff training but it decided by disaster management Bureau.
- **Emergency drill at district/ Upazila/ Union level.....** They are linked with the fire service and Fire service and DRRO jointly conduct the mock drill.
- **Equipment maintenance:** They have trained staff and they maintain the equipments but budget is minimal.
- **Inter organizational/Stakeholder meeting:** 15th of every month they conduct a meeting which is called zila korodhor meeting. This is mandatory.
- **Drawing/Reviewing/Updating hazard map:** They don't have any hazard map
- **Residents awareness campaign:** Yes/ once a year
- **Residents evacuation drill :** Yes/ Once a year

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure

Total	368000 metric ton rice (EGPP,KA BIKHA and TR and 3,50,000 taka	337250 metric ton rice and 261500 taka (GR cash)	1250000 metric ton rice and 700000 taka	644100 metric ton rice and 644100 taka	1000000 metric ton rice and 500000 taka	999.050 metric ton rice and 499000 taka
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

It is really important to keep some budget for the disaster management. The process is so long that sometimes take quite long time to implement the project. Moreover there is not a single budget for the early warning. All budgets are for TR, EGPP and KABIKHA. But there should be a budget for training of the DMC and CPP. For the maintenance of the equipments and cyclone shelter, there is no budget.

Activities under State of Emergency

6.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

Yes they do. They have to follow.

- Please describe gaps between the SOD and actual activities? If any.

In practical, it is impossible to maintain the SOD without the budget and more manpower. Sometimes we don't get response from the lower agency. They have problem with the coordination. Early warning exercise is minimal. As there no no budget for early warning system.

(1)Number of Human Resources

- How many staffs are mobilized? 12
- Do you have any regulations/ rules for mobilization of staffs? Yes they have

(2)Office and Equipments

- Where is emergency head quarter office set up?

Same as normal time

DC office

Others:

- Equipments :

3 Desks	1 File cabinets
1 Copy machine	1 Computers
1 UPS	Internet
TV set	1 Radio receiver

6.5 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
Disaster management and relief ministry/ fax and land phone
- Where do you send the warning to? What is communication method?
Open emergency control room and send warning to UNO/ fax and land phone
- How long does it take usually since receiving till sending information?
10 to 15 minutes to inform all UNO of different Upazila
- Contents of warning Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?
It is ok. But if the contents were specific for the particular zila or Upazila, than the community people would be more reliable on the warning message.

- Do you have any issues and problems regarding communication method?

No

- Do you have communication radio in the district/ Upazila/ unit?

1 communication radio

- How many percent does mobile phone cover in the area?

80 %

- How many percent does Mosque Microphone cover in the area?

55%

- How many percent does commercial power supply cover the area?

40%

- How many percent do residents have solar power system?

Less than 5%

- How many percent do residents have mobile phones?

70%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

Disaster management and relief ministry

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

Follow SOD

(2)Shelter Management

Management committee in different levels like school management committee, madrasha management committee

(3)Rescue and Search

Follow SOD's rules and regulations. Red cross, Red Crescent, CPP plays an important role during rescue and search time.

(4)Sufferer Help

Jointly upozila porishad, Union parishad, unit team leader, CPP help the sufferer during the disaster time.

(5)Damage Survey

Union and CPP jointly conduct the damage survey. But Union parish is bound to conduct the survey and report to upozila office.

(6)Other

No

Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it?
yes
- Do you have obligation to record activities under state of emergency and report it?
To the Disaster ministry

(6) Damage Records

- Do you have obligation to survey disaster damage and report it? yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing		Govt is trying to reduce the dead tools and trying to avoid the missing categories.
	Injured	Union parishad,	
	Evacuees	Union parishad	
Private Sector	Building	LGED/union parishad	
	Agriculture	Agriculture department	
	Fisheries	Fisheries department	
	Manufacture	Union parishad	
Public Sector	Road, Bridge	LGED/union parishad	
	Dike	LGED/union parishad	
	Public Utilities	Utilities department	
Generalization, Statistics			

8. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone				
Type	Sidr				
Start Date	15/05/2007				
End Date	15/05/2007				
Maximum Wind Velocity	190 km/hour				
Highest Sea Level	22 feet				
Total Rainfall					
Dead	409				
Missing	389				
Injured	4266				
Total Collapse Houses	54,416				
Half Collapse Houses	1,19,601				
Total Collapse Dike	76 bridge/culvert and 73.70 km embankment				
Half Collapse Dike					
Inundation Area	1207.12 sq.km.				
Inundation Depth					
Agriculture Damage	95,839.13 hactor of land				
Fisheries Damage	29,902 hactor of land				
Economic Losses					
Others					

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: sidr
- Record of activities including time series, if any. recorded
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

They are normally used to with the disaster related issues. So Normal times DRRO conduct a meeting with the upozila and union disaster management committee. Every month DRRO conduct this meeting.

✓ Alert and Warning Stage: Before the SIDR people were not serious about the warning. But community people are more serious about the warning. At this stage DRRO normally open a control room and keep contact with the upozila disaster management committee.

✓ Disaster Stage: As the network completely broke down during the disaster time, It is really hard to keep contact with the upozila. In the District level, they don't have enough vehicles, other warning equipments to keep contact with the community.

✓ Rehabilitation Stage: At this stage all local government departments, NGO's and CPP work together.

- How many percent of residents did evacuate to shelters?

7 %

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason: People didn't want to evacuate during the last sidr. But after the sidr, people care about the warning. The problem is, not much cyclone shelter to evacuate them.

)

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	10.00 am	Received	Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	DRRO	1-3	Notice	Fax		cautionary warning	Called meeting	
2	Passing	15.11.2007	10.15	Send	DRRO	Upozila Office (uno)	1-3	Notice	Phone	Fax	cautionary verbal warning	Inform Upozila Disaster management committee	
3	Approaching	15.11.2007	12.00 to 4.30	Received	Stroam warning centre	Upozila Office (uno)	4-7	recommendation	phone	fax	Warning level and to prepare to move for shelter	Called emergency meeting and inform all government agencies and CPP	Not many shelters to accommodate and people didn't rely on warning
4	Passing	15.11.2007	12.00 to 4.30	send	DRRO	Upozila disaster management committee and UNO	4-7	recommendation	phone	Fax	Warning level and to prepare to move for	Inform all union chairmen and CPP	Not much shelter and warning

5	On going	15.11.2 007	6.00 pm	Received	DRRO	Upozila level	8-10	Order	phone	To evacuate and come to cyclone shelters	Annou nced over Mega Phone	equip ments
6	Passing	15.11.2 007	4.00 pm to 5.00 pm	send	Upozila disaster management committee and UNO	Union chairman and union disaster managemen t committee	4-7	Order	Phone and face to face	Warning level and to prepare to move for shelter	Informe d CPP team leaders	Not much shelter and warnin g equip ments
5												
6												

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Dr. Md. Anwar Hossain	Member of parliament	Pirojpur 3	01711125992
Md. Sadekur Rahman	Chairman	Mathbaria Upozila	01727176772
Md. Ahsan Habib	UNO	Mathbaria Upozila	01730036513
Md. Faizul Islam	PIO	Mathbaria Upozila	01772284921
Abdul Latif	Assistant director	CPP	01716398812
Ibrahim Khalil	Upozila team leader	CPP	01837672175

(3) Responding Date and Hour

28 / 03 / 2013 at 3.00 pm

(4) Responding Place

Mathbaria Upozila office, Pirojpur

(5) Interviewer

Shariful Islam



Meeting with PIO, CPP, Disaster Management committee in Mathbaria upozila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Mathbaria Upozila office, Pirojpur

Organization Chart

- **Could you provide the latest organization chart? if any.** No chart available
- **Which departments/units are in charge of disaster management in the**

latest organization chart?

UNO, PIO, UP chairman, Secretary, ward members, village police, union disaster management committee, CPP

(2)Number of Human Resources

Quorum: 18 Enrollment:18

(3)Population and Number of Household

Year: 2011 Source: Upozila parishad record

Population:

Male: Female: Total: 3,51,918

Number of Household: 68237

(4)Area

353.25 Square kilometer

(5)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		11	
Number of Gram			
Number of Para		15	
Number of Polder			

(6)Outline of Industry

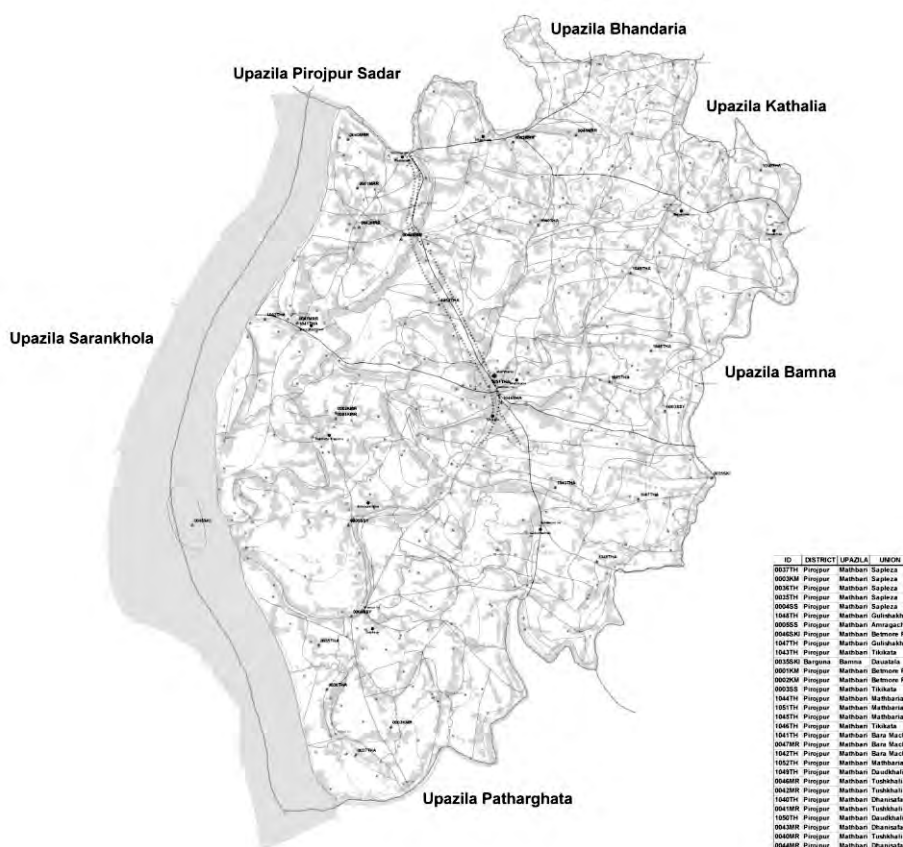
- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	43%	After the sidr, farmers were mainly dependent on the relief. During the disaster time 100% of the agricultural land (2871 hactors) was washed away and the land was unable to use more than 2 and half years due to saline water. 5215 hactors of agricultural land were fully damaged and 23526 hectors of agricultural land were partially damaged.
Fisheries	25%	Around 1495.870 hactors of pond fisheries and shrimp cultivations were damaged. Lots of fishermen who were fishing in the deep sea died

		during the disaster time as they haven't got any warning. Radio signal was weak as well. Most of the fishermen go to the deep sea for the fishing, which is more than 150 k.m. But they haven't received any signal during the sidr time. During the meeting with the fishermen, it was found that in their boat, there is no receiver. They only carry portable radios.
Manufacture	5%	Main manufactories are Rice mill 10, saw mill 8, ice factory 2. During the disaster time, these manufacturers lose their business.
Service	7% of the total population	Specially school teachers suffered a lot during the disaster time as most of the schools were under water.

(7)Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of Mathbaria upazila, Pirojpur. Map showing the locations of Mathbaria

hazard

3. Meteorological/ Hydrologic Observation Station

- **Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.**

There is no meteorological observation station here

Rainfall:

Wind:

River level:

Sea level:

- **Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?**

no

- If yes, do you have map of these locations or can you put the locations on the map?

- **Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?**

Sometimes people don't care about the warning. It happened so many times that warning signal is 6. But the sky is completely clear. Surroundings look normal. So people didn't rely on that warning. Moreover when the warning level goes down, they never inform to the community. It is really important to provide correct information to the community people. It happened in the 2007's sidr that the warning reach to the community at the end and some of the community people never heard the warning.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	2/3 times per year	Damages the agricultural land.
Flash flood		
Inside water inundation		
Cyclone	2007 and 2009	More than 400 people died and 700 were missing

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Upozila disaster management committee G: Madrasha Management Committee

B: Disaster Relief & Rehabilitation Office H: NGO (Red Crescent, Naba jibon)

C: Union Disaster management committee I:

D: Unit Disaster management committee J:

E: CPP K:

F: School Management Committee L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	A,C,E	C,E	A,E,F,G	C,D,H	C,D,E,G,H	C,D	C,D,H	C,H	E,C,D
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities



At CPP , mathbaria upozila



Antena for radio system at Mathbaria

6.1 Structural Framework

(1)Number of Human Resources

CPP Upozila office: 13

CPP volunteer: 965

DMC office: 2

Member of Upozila disaster management committee: 22

(2)Office and Equipments

Sole use office room

Equipments :	2 Desks	1 File cabinets
	Copy machine	1 Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? All plans are written in SOD.
- Planning/Reviewing/Updating disaster management plan: Every month a meeting is organized by the District disaster management committee. But they need funds for that
- Staff training: National level training is there for the PIO. But it is only project base.
- Emergency drill at district/ Upazila/ Union level: Once a year.



Mock drill is at Mothbaria govt school on 28th of march 2013

- Equipment maintenance:

CPP: They don't have any fund to maintain the equipments.

DMC: They don't have any equipment



Terminal for solar system

- Inter organizational/Stakeholder meeting: Once a month
- Drawing/Reviewing/Updating hazard map: Save the children update the hazard map. But DMC don't do it.
- Residents awareness campaign: Once a year
- Residents evacuation drill: Once a year. But lots of NGO's are doing this.

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total			6 crore	5.5 crore	7.5 crore	7.5 crore
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
Upozila Office: receive the warning from DRRO,Pirojpur district by phone or fax
CPP: Receive warning from Zone CPP office by phone
- Where do you send the warning to? What is communication method?
UP Office: send to union chairman and union CPP leader by phone
CPP: send to union CPP leader by phone
- How long does it take usually since receiving till sending information?
5-6 minutes
- Contents of warning: Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?
Both CPP and DMC complained that Sometimes warning is not correct. Due to the incorrect information, sometimes people don't care about the contents of warning. Actual scenario of the certain area's environmental condition and warning contents do not match.
- Do you have any issues and problems regarding communication method?
If the mobile network gone, than it is really hard to pass the information to the union and unit leaders.
- Do you have communication radio in the district/ upazila/ unit?
yes
- How many percent does mobile phone cover in the area?
CPP : 65 %
DMC : 70%
- How many percent does Mosque Microphone cover in the area?
CPP: 60 %
DMC : 60 %
- How many percent does commercial power supply cover the area?
CPP : 3 %
DMC : 12%
- How many percent do residents have solar power system?

CPP: 7 %

DMC : 5%

- How many percent do residents have mobile phones?

CPP: 45 %

DMC : 65%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

DMC: DRRO and District disaster management committee

CPP: Zone office, Barishal and District disaster management committee

(3)Evacuation Guidance

CPP: During the disaster time CPP members call a meeting and try to work with other organizations like upozilla disaster management committee, UP and Red Crescent and other NGO's.

DMC: During the disaster time all local government organizations, NGO's, CPP, school management committee work together. They call an emergency meeting and plan for the evacuation. But most of the people, government agencies and CPP don't have enough training.

(4)Shelter Management:

CPP: Only the disaster time CPP coordinates with the school/ madrasha management committee to manage the cyclone shelter.

School Management committee: Normally school management committees manage the shelter. But they don't have any extra budget for that. They also don't have any equipment in the school cum cyclone shelter. Rescue and Search

(5)Sufferer Help: Disaster time upozilla disaster management committee, union disaster management committee, CPP, red-crescent, and different NGO's work together to help the sufferer.

(6)Damage Survey: CPP and Union parishad jointly conduct the damage survey.

(7)Other

7.3 Financial Status

- Could you provide the financial status for emergency activities?

In case of emergency, Upozila inform district level and they get fund from the district level.

Budget: 0

Expenditure: -0

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - **zoning for each evacuation shelter** : When any new cyclone shelter is constructed by the government (LGED),NGO's, Personal donation or by any donor agencies (JICA, UNDP) etc, local government do the zoning for each evacuation shelter. But due to lack of cyclone shelter considering the population, zoning system don't work all the time.
 - **evacuation route**: Most of the cyclone shelter's connecting route's condition is really poor. Mainly during the disaster time it is really hard to use the connecting road to the cyclone shelter.
 - **shelter capacity**: there are 33 cyclone shelters in Mathbaria where 15000 people can accommodate. It is really urgent to construct few more cyclone shelter in this union. We have visited few primary schools, which are possible to use as a cyclone shelter with reconstruction work.
 - **storage of food and water, and so on** : School and madrasha normally used for the storage of cyclone shelter.

(2)Current Condition of shelters

- Number of shelters : Existing: 33 Plan: 1
- Total capacity : around 15000 Population ratio: 5%
- Solo use:1 Multi use: 32
- Other purposes of multiuse shelter: school, madrasha and union parishad office
- Do you think the shelters have enough height for tidal wave/ flood? yes

(3)Operation / Management

- **Owner**: School and Madrasha management committee
- **Operation/ Management** :
School head teacher and school management committee. During the disaster time CPP and Union Parishad also manage the shelter.

- **Cost burden** : School management committee but they don't have any additional budget for managing the shelter.

(4) Shelter Management Manual

- **Do you have a shelter management manual?** No

Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it?
CPP: yes
DMC: yes
- **Do you have obligation to record activities under state of emergency and report it?** Yes. During the emergency time Union leaders and CPP is bound to report to the upozila office and upozila office report to the district level.

(6) Damage Records

- **Do you have obligation to survey disaster damage and report it?** Upozila office don't survey the damage. But Union parished is bound to survey and report to the UNO.
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP,	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics		UP, UNO	

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone				
Type	Sydr				
Start Date	15.11.2007				
End Date	15.11.2007				
Maximum Wind Velocity	220 km/hour				
Highest Sea Level	20 feet				
Total Rainfall					
Dead Missing	174 25				
Injured	561				
Total Collapse Houses	22760				
Half Collapse Houses	29400				
Total Collapse Dike	57				
Half Collapse Dike	22				
Inundation Area	70%				
Inundation Depth	18 feet				
Agriculture Damage	28740 hactor				
Fisheries Damage	149760 hactor				
Economic Losses					
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- **Name of the cyclone:** Sidr
- **Record of activities including time series, if any.** no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ **Normal Times:**

CPP: They don't have any record with them. But around 10 am on 15/11/2007 they have called a urgent meeting with the all CPP leaders.

Problems: CPP don't have sufficient equipments to conduct their job without any obstacle. CPP members training are also necessary.

DMC: Disaster management committee and upozila parishad called an urgent meeting and discussed what to do.

✓ **Alert and Warning Stage:**

CPP: Inform the union leaders of CPP and order them to pass the warning information to the unit leaders

DMC: Inform union chairman and union disaster management committee about the warning over phone and order them to inform the Unit/village leaders and CPP leaders to take necessary steps.

✓ **Disaster Stage:**

CPP and DMC: At the disaster stage CPP , all local government agencies and NGO's work together

✓ **Rehabilitation Stage:** At this stage all organizations work together as well.

- How many percent of residents did evacuate to shelters?

11 %

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.
2. They stayed the houses even after the warning.

(Please describe the reason:

)

During the sird time, people didn't take the warning seriously. Some religious matter worked here as well. Women don't like to go to the cyclone shelter, as there are no separate rooms for the women.

There are also problems with the warning contents. What the contents saying is not similar with the practical situation. That's why people sometimes don't rely on the warning.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2 007	10.30 am	Received	DRRO	Union level	1-3	Notice	Phone		cautionary verbal warning	Called meeting	
2	Passing	15.11.2 007	11.30	Send	UNO (upozila)	Union level	1-3	Notice	Phone		cautionary verbal warning	Inform Union leaders	
3	Approaching	15.11.2 007	12.00 to 4.30	Received	DRRO	Union level	4-7	recommendation	phone	fax	Warning level and to prepare to move for shelter	Called emergency meeting and inform all government agencies and CPP	Not many shelters to accommodate
4	Passing	15.11.2 007	12.00 to 4.30	send	UNO and UDMC	Unit level	4-7	recommendation	phone		Warning level and to prepare to move for shelter	Inform all ward members and CPP unit leaders	Not much shelter and warning equipments
5	On going	15.11.2 007	6.00 pm	Received	DRRO	Union level	8-9	Order	phone		To evacuate and come to	Announced over Mega	No communication

11. Others

Please describe other issues and problems or important information.

- **As the village is surrounded by the water, they urgently needed to construct an embankment. Otherwise, they will lose lots of houses, live stocks, fisheries and human lives every year.**
- **They have only one pond to drink water, where people are taking shower, cleaning there cloths.**
- **They don't have any deep tube-well as it is full of gas and iron. So raining water is the only source of drinking water for them.**
- **I am not sure what to say about their cyclone shelter. Kurihara, Yamashita and myself visited the shelter from inside to outside. None of the equipments is working. They have one hand mike, which don't work as well.**
- **They don't have any loudspeaker at all.**
- **They have one school in that village and that school might break down any time.**
- **It is really urgent to construct this school and It will be usable for the cyclone shelter.**

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Abdur Rahman Khan	Chairman	Baramasua union	01727779534
Bidhan Somoddar	Ward member	Ward 1, Baramasua Union	01726633557
Babul Akon	Ward member	Ward 2, Baramasua Union	01721977908
Ashraf ali patra	Ward member	Ward 3, Baramasua Union	01718356988
Harunor Rashid	Ward member	Ward 7, Baramasua Union	01724005909

(3) Responding Date and Hour

27 / 03 / 2013 at 11.00 am

(4) Responding Place

Baramasua union parishad

(5) Interviewer

Shariful Islam

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Baramasua union parishad



(2) Organization Chart

- Could you provide the latest organization chart? if any. no
Chairman-secretary-12 ward member-10 village police
- Which departments/units are in charge of disaster management in the latest organization chart?

Union disaster management committee

(3) Number of Human Resources

Quorum: 28 Enrollment: 28

(4) Population and Number of Household

Year: 2013 Source: union parishad

Population:

Male: 7,560 Female: 6,990 Total: 14,550

Number of Household:

(5) Area

15 Square kilometer

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			4
Number of Para/ward			9
Number of Polder			1 (11 km)

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		25,00 acre of agricultural land were damaged which was 80% of the total agricultural land in the 2007's sidr
Fisheries		95% were damaged in 2007 sidr
Manufacture		
Service		

Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2007,2009	In 2007, 12 were dead, 3 were missing,23 were injured

5. Normal Time Activities

5.1 Structural Framework

(1) Number of Human Resources

Full-time: 22 Part-time:

(2) Office and Equipments

Sole use office room

Equipments : 3 Desks 1 File cabinets
 Copy machine Computers

5.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?
No
- Planning/Reviewing/Updating disaster management plan
No
- Staff training
No, Budget is necessary
- Emergency drill at district/ Upazila/ Union level
No
- Equipment maintenance
No
- Inter organizational/Stakeholder meeting
Yes, 3 times in a year
- Drawing/Reviewing/Updating hazard map
No
- Residents awareness campaign
Once a year
- Residents evacuation drill
No

5.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure

Total	2100000	2100000	2400000	2400000	2100000	2100000
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

There is no budget for disaster management and Early warning. All budgets are for Kabikha, TR and EGPP. Some of the budget is for maintaining the union Parishad.

Activities under State of Emergency

5.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
No idea
- Please describe gaps between the SOD and actual activities? If any.

(1) Number of Human Resources

- How many staffs are mobilized? no
- Do you have any regulations/ rules for mobilization of staffs? no

(2) Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time Union parishad office
Others:
- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receiver



5.5 Warning

(1) Warning

- Where do you receive the warning form? What is communication method?
UNO/phone
- Where do you send the warning to? What is communication method?
Ward members and Unit leaders/ phone
- How long does it take usually since receiving till sending information?
20 minutes

- Contents of warning Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?
No but sometimes people don't believe on warning.
- Do you have any issues and problems regarding communication method?
During the disaster time, it is not possible to communicate with unit or ward leaders over phone.
- Do you have communication radio in the district/ upazila/ unit?
No
- How many percent does mobile phone cover in the area?
90%
- How many percent does Mosque Microphone cover in the area?
30%
- How many percent does commercial power supply cover the area?
3%
- How many percent do residents have solar power system?
10%
- How many percent do residents have mobile phones?
95%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
UNO,PIO, upozila level

5.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

No activities

(2)Shelter Management

School and Management committee manage the cyclone shelter

(3)Rescue and Search

CPP, Union parishad, Union Disaster management committee conduct the rescue and search during the disaster time.

(4)Sufferer Help

All government and private organizations help the sufferer during the disaster time.

(5)Damage Survey

Union parishad and CPP conduct the damage survey during the disaster time.

(6)Other

5.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget: 0

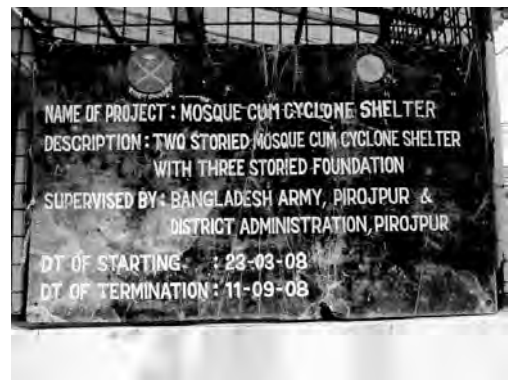
Expenditure:

6. Cyclone Shelter

(1)Evacuation Plan

No

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter
 - evacuation route
 - shelter capacity
 - storage of food and water, and so on



(2)Current Condition of shelters

- Number of shelters : Existing: 6 Plan:
- Total capacity : 23,000 Population ratio: 15.9%
- Solo use: Multi use 6
- Other purposes of multiuse shelter: School and madrasha
- Do you think the shelters have enough height for tidal wave/ flood? no

(3)Operation / Management

- Owner
School and madrasha management committee

- Operation/ Management
School and madrasha management committee
- Cost burden
No budget for maintenance

(4) Shelter Management Manual

- Do you have a shelter management manual?
No

7 Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it?
Yes
- Do you have obligation to record activities under state of emergency and report it?
Yes

(6) Damage Records

- Do you have obligation to survey disaster damage and report it?
Yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP,UP	
	Injured	CPP,UP	
	Evacuees	CPP,UP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics			

7. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone				
Type	sird				
Start Date	15.11.2007				
End Date	15.11.2007				
Maximum Wind Velocity	90km/hour				
Highest Sea Level					
Total Rainfall					
Dead	12				
Missing	3				
Injured	23				
Total Collapse Houses	500				
Half Collapse Houses	1950				
Total Collapse Dike	3				
Half Collapse Dike	7				
Inundation Area	90%				
Inundation Depth	22 feet				
Agriculture Damage	2500 acre/ 80%				
Fisheries Damage	95%				
Economic Losses					
Others					

8. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

There is no budget for the normal time activities

- ✓ Alert and Warning Stage:

CPP and Union parishad don't have enough equipments to warn the whole community

- ✓ Disaster Stage

Main road was unusable during the sidr time and mobile network get disconnected.

- ✓ Rehabilitation Stage

All organizations work together at this stage.

- How many percent of residents did evacuate to shelters?

3%

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason: Warning didn't reach to the all residents. It is

also true that people didn't want to move to shelter. Moreover In the year of 2007, there were not much cyclone shelter.

)

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone	Cell-phone			
1	Approaching	15.11.2007	10.30 am	received	Upozila	UP	1-3	Notice	Phone	Phone	Verbal cautionary	Meeting	
2	Approaching	15.11.2007	2.30pm	received	Upozila	UP	4	Recommendation	Phone	Phone	Prepare to move for cyclone shelter	Warn the chairman	
3	Ongoing	15.11.2007	2.30-5.30 pm	received	Upozila	UP	4-9	Order	Phone	Phone	Safeties of the community people And all government and private organizations have to work together	Order the upozila, union and unit leaders	Not much cyclone shelter to accommodate the community
4	Passing	15.11.2007	11.00 am	send	UP	member	1-3	Notice	Phone	Phone	Verbal cautionary		
5	Passing	15.11.2007	2.40 pm	send	UP	member	4	Recommendation	Phone	Phone	Prepare to move for cyclone shelter	Inform all unit and ward leaders to take necessary steps to reduce the damage	Not enough equipments to cover the area
6	Passing	15.11.2007	2.30-6.30 pm	send	UP	member	4-10	Order	phone	phone	Safeties of the community people And all government and private	All private and govt organizations start working	Ratio of cyclone shelter is really

9. Others

Please describe other issues and problems or important information.

Visited Area: On 27th of March 2013 we, team B has visited Baramasua Union. Though we were supposed to visit only ward no 2, but We have visited Ward no. 2, 4, 7,8, 9 in order to meet public and local governments demand. The following problems we have observed in these unions.

Ward no: 2

Village: khejurbaria

- River erosion is their main problem
- They only have one cyclone shelter cum mosque without single equipment.
- There is no CPP union office.
- They don't have any preparatory early warning activities.
- They don't have sufficient early warning equipments
- They don't have any school in this school
- Main source of drinking water is pond

Ward no 4:

- Connection Bridge was destroyed due to 2007 sydr. Though a JICA funded project is going on there where 22 km road construction and bridge construction is taken into account.

Ward 7,8,9:

- There is no cyclone shelter in these three unions
- They only have one cyclone shelter cum mosque without single equipment.
- There is no CPP union office.
- They don't have any preparatory early warning activities.
- They don't have sufficient early warning equipments
- Main source of drinking water is pond

Ward no 3:

- During the sydr 2007, embankments were destroyed.
- There is no maintenance of that embankment.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
S.M.Ferdous (Rummon)	Chairman	Bethmore Rajpara Union	01716171684
Md.Modassir Ali	Member, ward 3	Bethmore Rajpara Union	01724855506
Md.Yasak Ali	Member, ward 7	Bethmore Rajpara Union	01721527632
Md.Abdul Halim	Member, ward 8	Bethmore Rajpara Union	01720958430
Md.Shaid	Member, ward 9	Bethmore Rajpara Union	01721431778

(3)Responding Date and Hour

25 / 03 / 2013 at 9.30 am

(4)Responding Place

Bethmore Rajpara Union parishad

(5)Interviewer

Shariful Islam

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

Bethmore Rajpara Union parishad



(2) Organization Chart

- Could you provide the latest organization chart? if any.no
Chairman-Secretary-12 ward member-7 village community police
- Which departments/units are in charge of disaster management in the latest organization chart?

Union disaster management committee

(3) Number of Human Resources

Quorum: 34 Enrollment:

(4) Population and Number of Household

Year:2013 Source: Union parishad

Population:

Male: 8500 Female: 8220 Total:16,720

Number of Household: 6800

(5) Area

25 Square kilometer

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			10
Number of Para			9
Number of Polder			1 (12 km)

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		More than 65% of the agricultural land was damaged
Fisheries		More than 50 fish cultivation pond and over 205 ponds were damaged due to sidr
Manufacture		
Service		

Flash flood		
Inside water inundation		
Cyclone	2007,2009	Around 11 people died in the 2007 sidr and 2875 were injured

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

- A: Disaster management committee
- B: Disaster Relief & Rehabilitation Office
- C: Union Disaster management committee
- D: CPP
- E: NGO (red-crescent, Dak diye jai)
- F: School management committee
- G: Union parishad
- H:
- I:
- J:
- K:
- L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,D	C,D	F	C,D,G	D,E,G,	G,D	C,D,E,G	C,D,E,G	C,D
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: 23 Part-time:

(2) Office and Equipments

Sole use office room

Equipments :	3 Desks	1 File cabinets
	Copy machine	1 Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?
no
- Planning/Reviewing/Updating disaster management plan
No. But during the disaster time all types of organizations work together
- Staff training
No
- Emergency drill at district/ Upazila/ Union level
Once a year
- Equipment maintenance
No
- Inter organizational/Stakeholder meeting
Twice a year
- Drawing/Reviewing/Updating hazard map
NGO do update hazard map



Hazard map of majher char, bethmore union

- Residents awareness campaign
Once a year
- Residents evacuation drill
No

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	19,37,290	19,37,290	27,59,832	27,59,832	32,70,940	32,70,940
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

There is no budget for the Disaster Management and Early Warning.

Activities under State of Emergency

6.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? No
- Please describe gaps between the SOD and actual activities? If any.

(1) Number of Human Resources

- How many staffs are mobilized? 0
- Do you have any regulations/ rules for mobilization of staffs?

(2) Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time Union parishad office
Others:
- Equipments : 1 Desks o File cabinets
 0 Copy machine 1 Computers
 0 UPS 0 Internet
 0 TV set 0 Radio receiver

6.5 Warning

(1) Warning

- Where do you receive the warning form? What is communication method?
PIO, Mathbaria Upozila/ phone
- Where do you send the warning to? What is communication method?
Ward Members and CPP unit team leaders/Phone
- How long does it take usually since receiving till sending information?
25 minutes
- Contents of warning : Which warning signal levels do you use?
10 Levels
- Do you have any issues and problems regarding warning contents?
No
- Do you have any issues and problems regarding communication method?
During the disaster time it is not possible to communicate with mobile as the network is down
- Do you have communication radio in the district/ upazila/ unit?

no

- How many percent does mobile phone cover in the area?

90%

- How many percent does Mosque Microphone cover in the area?

35%

- How many percent does commercial power supply cover the area?

15%

- How many percent do residents have solar power system?

10%

- How many percent do residents have mobile phones?

80%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance:

No idea

(2)Shelter Management

School and madrasha management committee manage the shelter

(3)Rescue and Search

During the disaster time CPP and union parishad together conduct the rescue and search

(4)Sufferer Help

NGO, local government, CPP help the sufferer during the disaster time

(5)Damage Survey

Union parishad and CPP conduct the damage survey

(6)Other

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget:0

Expenditure:0

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter
UDMC: yes
CPP: yes
 - evacuation route
UDMC: no
CPP:yes
 - shelter capacity
UDMC and CPP: Considering the population the shelter capacity is really minimum.
 - storage of food and water, and so on: During the disaster time food and water are stored in union parishad, school and madrasha.

(2)Current Condition of shelters

- Number of shelters : Existing: 3 Plan:
- Total capacity : 1350 Population ratio: 8.7%
- Solo use: Multi use: 3
- Other purposes of multiuse shelter: school and madrasha
- Do you think the shelters have enough height for tidal wave/ flood? yes

(3)Operation / Management

- Owner
School and Madrasha management committee
- Operation/ Management
School and Madrasha management committee
- Cost burden
No budget for maintenance

(4)Shelter Management Manual

- Do you have a shelter management manual?

no

Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it?
UDMC: yes
CPP: yes
- Do you have obligation to record activities under state of emergency and report it?
UDMC: yes
CPP: yes

(6) Damage Records

- Do you have obligation to survey disaster damage and report it?
UDMC: yes
CPP: yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP,UP	
	Injured	Cpp,up	
	Evacuees	Cpp, up	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics			

8. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Cyclone				
Type	Sidr				
Start Date	15.11.2007				
End Date	15.11.2007				
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead	11				
Missing	2				
Injured	2875				
Total Collapse Houses	1878				
Half Collapse Houses	1751				
Total Collapse Dike	10				
Half Collapse Dike	21				
Inundation Area	100%				
Inundation Depth	25 feet				
Agriculture Damage	340 acre land				
Fisheries Damage	255 ponds				
Economic Losses					
Others					

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr,2007
- Record of activities including time series, if any.no
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

There is no budget for the normal time activities

✓ Alert and Warning Stage:

CPP and Union parishad don't have enough equipments to warn the whole community

✓ Disaster Stage

Main road was unusable during the sidr time and mobile network get disconnected.

✓ Rehabilitation Stage

All organizations work together at this stage.

- How many percent of residents did evacuate to shelters?

3%

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason: Warning didn't reach to the all residents. It is also true that people didn't want to move to shelter. Moreover In the year of 2007, there were not much cyclone shelter.

)

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone	Cell-phone			
1	Approaching	15.11.2007	10.30 am	received	Upozila	UP	1-3	Notice	Phone		Verbal cautionary	Meeting	
2	Approaching	15.11.2007	2.30pm	received	Upozila	UP	4	Recommendation	Phone		Prepare to move for cyclone shelter	Warn the chairman	
3	Ongoing	15.11.2007	2.30-5.30 pm	received	Upozila	UP	4-9	Order	Phone		Safeties of the community people And all government and private organizations have to work together	Order the upozila, union and unit leaders	Not much cyclone shelter to accommodate the community
4	Passing	15.11.2007	11.00 am	send	UP	member	1-3	Notice	Phone		Verbal cautionary		
5	Passing	15.11.2007	2.40 pm	send	UP	member	4	Recommendation	Phone		Prepare to move for cyclone shelter	Inform all unit and ward leaders to take necessary steps to reduce the damage	Not enough equipments to cover the area
6	Passing	15.11.2007	2.30-6.30 pm	send	UP	member	4-10	Order	phone		Safeties of the community people And all government and private organizations have to work together	All private and govt organizations start working together	Ratio of cyclone shelter is really low

10. Others

Please describe other issues and problems or important information.

- Bethmore Rajpara union needs more early warning equipments to cover the whole area.
- There is one isolated area in this union which needs special considerations.
- As the village is surrounded by the water, they urgently needed to construct an embankment. Otherwise, they will lose lots of houses, live stocks, fisheries and human lives every year.
- They have only one pond to drink water, where people are taking shower, cleaning there cloths.
- They don't have any deep tube-well as it is full of gas and iron. So raining water is the only source of drinking water for them.
- I am not sure what to say about their cyclone shelter. Kurihara, Yamashita and I visited the shelter from inside to outside. None of the equipments is working. They have one hand mike, which don't work as well.
- They don't have any loudspeaker at all.
- They have one school in that village and that school might break down any time.
- It is really urgent to construct this school and It will be usable for the cyclone shelter.

Appendix 2-4
Chittagong Division

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents: Attached in participant list

Name	Title	Organization	Telephone No.

(3) Responding Date and Hour

11-12 / 05 / 2013

(4) Responding Place

CPP Zonal office-Khulshi and DC office Chittagong

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

DC office Chittagong

(2) Organization Chart

- Could you provide the latest organization chart? if any.

Not available

- Which departments/units are in charge of disaster management in the latest organization chart?

DRRO, at present known as DDM (Directorate of Disaster Management) and his office staff are in charge of disaster management.

(3)Number of Human Resources

CPP office: 6 person: DD> Radio operator cum office assistant> workshop operator> massager> guard> driver

Quorum:

Enrollment:

(4)Population and Number of Household

Year: 2011

Source: census

Population:

Male: 39,88,553

Female: 39,24,812 Total: 79,13,365

Number of Household: 1,582,673

(5)Area

5,283 √Square kilometer/Hectare

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	14		
Number of Union	192		
Number of Gram	1,267		
Number of Para			
Number of Polder			

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	30%	Crops are damaged. For example, there is signal 3 at the moment. Only 30% crops has been harvested, if the cyclone attacks, 70% of the crops will be damaged.
Fisheries	30%	Life risk
Manufacture	20%	
Service	20%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: District map of Chittagong.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

The megaphone siren system is installed in Chittagong

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	2012	
Inside water inundation		
Cyclone	1985, 1991, 1997, 2007, 2008, 2009,	Death toll, crops and livelihood damaged.

Land slide: 2007, 2008, 2011(2), 2012



Pictures: CPP and DMC committee meetings (We had the opportunity to observe the actual DMC committee meeting as cyclone 'Mohashen' was approaching at that time).

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: LGED

B: Disaster Relief & Rehabilitation Office H: LG

C: CPP I: Personal

D: NGO (Proshika, BRAC, CODEC) J:

E: Govt. agencies (PIO, DRRO) K:

F: School Management committee L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District	C	C	F, C,	C	A, D	A, C	G, H	A, D, I	C, D
Upazila									
Union									
Gram									
Para									
Individual									
I									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time:

CPP office staff: 6, Unit TL: 390, DMC: 44 Part-time: 390*15

CPP has their zonal office in Chittagong district. Out of 14 Upozilas, CPP has unit distribution in 6 coastal upozilas. They are: Anowara (6 out of 11 unions are covered by CPP), Bashkhali (8/15), Potia (5/22), Shandwip (15/15), Mirsharai (10/16), Shitakundu (9/9). According to CPP, they only have establishments in coastal areas, hill tract areas are out of CPP coverage.

(2) Office and Equipments

Sole use office room ✓ CPP: rented, DMC: DC office

Equipments : ✓ Desks ✓ File cabinets
 × Copy machine ✓ Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? ✓
- Planning/Reviewing/Updating disaster management plan

First disaster management plan was published in 1985, then revised in 1997 then in 2010.

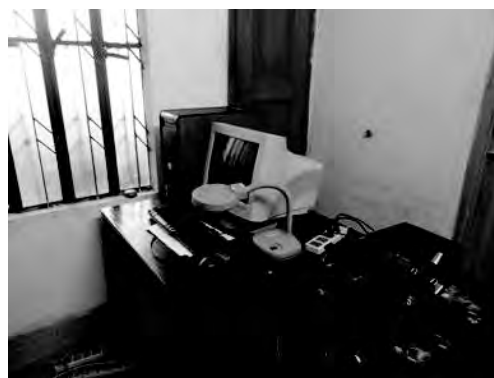
- Staff training

CPP: Last done around 6-7 years ago in Shitakundu Kumira. Recently, new volunteers have been recruited in cyclone Sidor and Aila affected areas of Shatkhira and Khulna. Trainings are more concentrated in those areas now; funded by CDMP. There are 4 core trainings for CPP volunteers: 1. Disaster management, 2. Fast aid, 3. Search and rescue, 4. Leadership, It is part of the CDMP project that they will train the volunteers of Shandwip and Bashkhali soon but there is no expected date yet.

- Emergency drill at district/ Upazila/ Union level
- Equipment maintenance

CPP has a workshop in Chittagong zonal office. In 2004, RC had some coordination problem with the government and therefore, RC stopped funding of CPP operational expenses. However, the organization is overcoming the past

issues and started to move forward recently.



Picture: Chittagong workshop for maintenance of CPP instruments.

- Inter organizational/Stakeholder meeting

CPP: Upozila meetings: monthly, union meetings: 3 monthly and unit meetings are supposed to take place 3 monthly. But only the upozila level meetings are regular.

- Drawing/Reviewing/Updating hazard map

During training, they are supposed to draw a hazard map on earth and then copy a proper map in brown paper.

- Residents awareness campaign

CPP: Simulation, rally, drama, folk song, etc take place regularly for public awareness. These are done to raise awareness of ordinary people; artificial village society is presented and CPP activities are showcased there. Last time, it was done in 2013 February in Anowara. DRR minister and RC chairman both attended the meeting.

- Residents evacuation drill

Simulation covers all.

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

CPP: gets BDT 4,00,00,000 government support each year for office and administration purpose. Only district and upozila level office staff receive salary. In union level, the operator receives 2,000 TK honorarium and in absence of team leader, the acting union team leader receives 2,000 TK.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						

Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

Need based.

Activities under State of Emergency

6.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?√
- Please describe gaps between the SOD and actual activities? If any.
Specially the low land and out of polder population are most vulnerable. CPP volunteers can only announce to evacuate, but they don't want to leave their households abandoned.

(1)Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs? ×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time √ DC/ UNO/ PIO office Dhaka office.
Others:
- Equipments : √Desks √File cabinets
×Copy machine √Computers
×UPS √Internet
×TV set √Radio receiver



Picture: active radio at CPP office and CPP operator receiving message of cyclone ‘Mohashen’.

6.5 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
Dhaka meteorological station through HF for CPP, Mobile, email, fax for DMC
- Where do you send the warning to? What is communication method?
Warning is sent to upozila level. By mobile phone, fax and email
- How long does it take usually since receiving till sending information?
15-20 minutes after receiving information
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
In upozila/district level, they receive the complete message in English. In union level they receive the gist information in bangle. So, there is no problem understanding the message.
- Do you have any issues and problems regarding communication method?
Need more VHF's as mobile network fail during disaster.
- Do you have communication radio in the district/ upozila/ unit?
CPP has HF/VHF sets in six upozilas of the district.
- How many percent does mobile phone cover in the area?
100%
- How many percent does Mosque Microphone cover in the area?
100%
- Commercial electricity: In Shandwip, only solar system; no commercial electricity, on the other hand, Mirsharai, Anowara, Bashkhali and Shitakundu are partially covered by Pollibiddut (rural power supply), they have 40% electricity. The city corporation area has 100% coverage.
- 2% residents have solar power system.
- TV network: 90%, FM radio: 00% (most people do not know how to use it), AM radio: 100%, 99% residents have mobile phones. Less than 5% people use radios.

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Dhaka meteorological department

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

CPP: Evacuation message is usually delivered 18 hours prior to the cyclone attack time. The residents are expected to use practical knowledge for evacuation.

(2)Shelter Management

School management committee is expected to hand over the keys to CPP after signal 4.

(3)Rescue and Search

Vulnerable communities are priority to rescue and search groups. If necessary, they arrange stretchers to rescue people.

(4)Sufferer Help

DC office helps according to needs.

(5)Damage Survey

CPP and UP members do the survey.

(6)Other

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter
 - evacuation route
 - shelter capacity:

Saudi Arabian shelters: 1,000, JICA shelters: 2,000, EU Commission: 500-600

- storage of food and water, and so on

The tube wells are on the ground, it cannot be used during cyclones, on the other hand BDCPC project arranged Drums for water reserve in some shelters.

ক্রমিক নং	উপজেলা নাম	আমার নং	আমার টকালসহ নং
০১	কক্সবাজার	০৭	৪০১
০২	উপসাগর	১২	৪৭৩
০৩	আখাখালী	০৫	১৬৮
০৪	দক্ষিণ	০৫	১০৬
০৫	কক্সবাজার	০৪	১০৬
০৬	কক্সবাজার	০৪	০৫
০৭	আখাখালী	০৫	১৬১
০৮	কক্সবাজার	০৫	৪২
০৯	কক্সবাজার	১০	৬২
১০	আখাখালী	০৪	২৬
১১	কক্সবাজার	০৪	৬১
১২	কক্সবাজার	০৫	১৫২
১৩	কক্সবাজার	০২	০৭
১৪	কক্সবাজার	০৫	৬৪
১৫	কক্সবাজার	০৭	২৮

মোট = ১৫৪১

Picture: List of cyclone shelters in Chittagong.

(2)Current Condition of shelters

- Number of shelters : 479 Existing: Plan:
- Total capacity : 452880 Population ratio 6%
- Solo use: 5% Multi use
- Other purposes of multiuse shelter: School, Union porishad office
- Do you think the shelters have enough height for tidal wave/ flood?√

(3)Operation / Management

- Owner
School management committee
- Operation/ Management
CPP
- Cost burden
Donors

(4)Shelter Management Manual

- Do you have a shelter management manual? 1998 booklet

8. Records

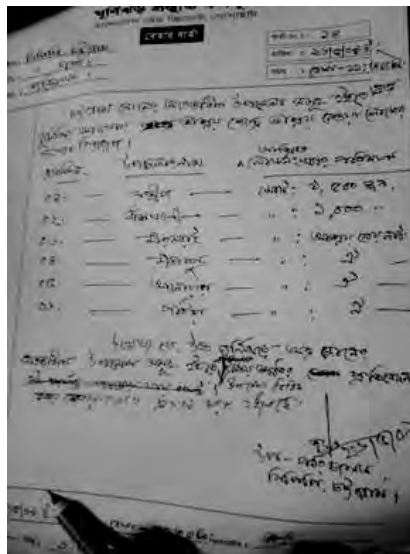
(1)Record of Activities

- Do you have obligation to record normal time activities and report it?√
- Do you have obligation to record activities under state of emergency and report it?√

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?√
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP	Not recorded
Private Sector	Building	CPP, UP	
	Agriculture	Agriculture department	
	Fisheries	Fisheries department	
	Manufacture	-	
Public Sector	Road, Bridge	LGED/ R & D	
	Dike	LGED/ R & D	
	Public Utilities	LGED/ R & D	
Generalization, Statistics			

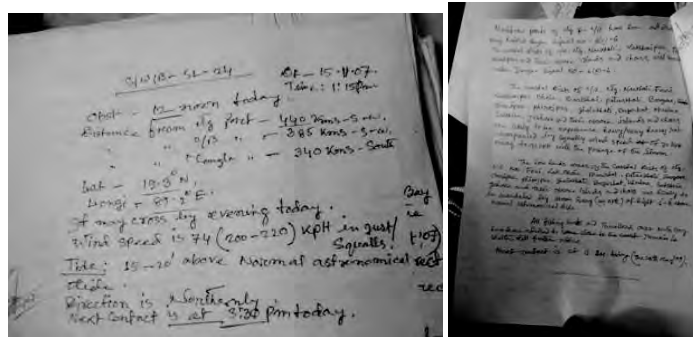


Picture: List of evacuees of Chittagong division during Aila.

Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidor	Aila			
Type	Cyclone	Cyclone			
Start Date	13.11.2007	25.05.2009			
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity	200-220 kmph	70-90 kmph			
Highest Sea Level	15-20 ft	6-8 ft above normal tide			
Total Rainfall					
Dead Missing	27				
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					



Picture: CPP record of cyclone; 1. Sidr Bulletin no: 24, 2. Aila Bulletin 11,

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

CPP: Fund is the biggest challenge for CPP.

- ✓ Alert and Warning Stage:

Damaged equipments take long time to be fixed and returned. It takes around 7 days for minor changes 10-15 days for changing parts. During disaster period, it is a very long time.

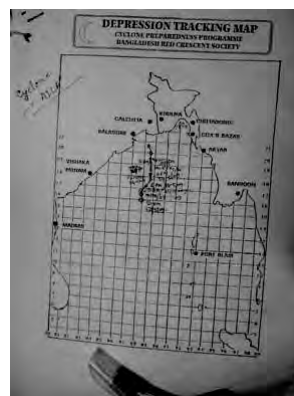
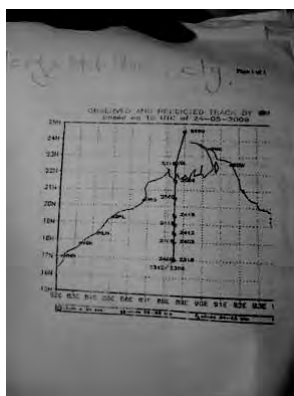
- ✓ Disaster Stage

Communication is the biggest problem during disasters. Mobile network stop working and communication roads become unusable due to fallen trees and water inundation.

- ✓ Rehabilitation Stage

The damage was not that much in this area compared to Potuakhali-Borguna region.

- Evacuation rate was 50%
- 27 fishermen died in Sidor. They went to the deep sea for fishing and never came back. It is assumed that they probably went near Khulna region for fishing.



Picture: Tracking maps: 1. Sidor, 2. Aila

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone	Speaking			
1	Approaching	23.05.09	10.30 pm	immediately	upper	lower	3	notice	HF	Speaking	Low pressure has turned into depression, at 3 pm 815 km away from Chittagong position... moving to north-west /northern direction. Max wind speed 40-50 kmph, all holidays are cancelled all fishing boats are advised to return	1 flag	
2	Ongoing	24.05.09	9 pm	immediately	upper	lower	4	notice	HF	Speaking	Deep depression; At 6 pm, distance From Chittagong Was 545 km, cox..., Max wind speed 60-70, location...	2 flags Verbal warning meeting	

3	Passing	25. 05. 09	8. 45 am	immediately	Upper	Lower	7	notice	HF	Speaking	Ports are advised To show signal 4, all fishing boats Are advised to return Cyclone storm 'Aila' moved west-ward, Position Distance Wind speed Ports are advised To show signal 6-7, fishing Boats to remain In shore	3 flags Megaphone warning	
4													
5													
6													
7													
8													
9													
10													
11													
11													

9. Others

The hot line number of central meteorological department is 10941 then press 4 for cyclone news updates. The same message that is forecasted in CPP VHF sets are delivered in Bengali.

Our team came to know this information as there was a cyclone forming about 1705 km away from Chittagong port, which was later named 'mohashen'. Probably only CPP officials are aware of this number. A lot can be done by only informing community people that there is a hot line number from which they can receive weather updates. For example, fishermen can press this number every time before going for fishing.

Due to this upcoming cyclone, the DC called an emergency DMC meeting and our team utilized the opportunity to attend a real DMC meeting at 1.00 pm that afternoon. It was briefly about making the team members aware about the cyclone and its intensity. All the members ensured at the meeting that they are prepared for the cyclone. One smaller committee was formed on ad hoc basis to maintain sound communication with the control room, which is the DRRO's office and the number or DRRO was shared among the members. The DC strictly foreboded the members to issue any warning until the signal is not level 8. They also discussed that the areas, where there are no cyclone shelters can receive tents for time being.

Later, one person from fire service mentioned that the issue of evacuation zoning is always neglected, but it is a very important issue. There are many regions where capacity of cyclone shelters is not adequate. **Therefore, they need a central evacuation plan involving the army, navy, CPP members and all other volunteers.**

DC urged that TV is more popular than radio. They need modern technology. According to him, radios are backdated and have lost popularity. He also mentioned that for search and rescue after cyclone, they need ambulances, so that the sufferers can be treated immediately.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.

(3) Responding Date and Hour

 13 / 05 / 2013

(4) Responding Place

Upozila Porishad office, Bashkhali upozila, Chittagong

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Bashkhali UNO office, Chittagong

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

UNO, PIO, CPP, DMC

(3)Number of Human Resources

Quorum: Enrollment:

(4)Population and Number of Household

Year: 2011 Source: census

Population:

Male: Female: Total: 4,31,162

Number of Household: 86,232

(5)Area

376.90 $\sqrt{\text{Square kilometer/Hectare}}$

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		14	
Number of Gram		81	
Number of Para			
Number of Polder		1 (1993, 30 km) damaged	

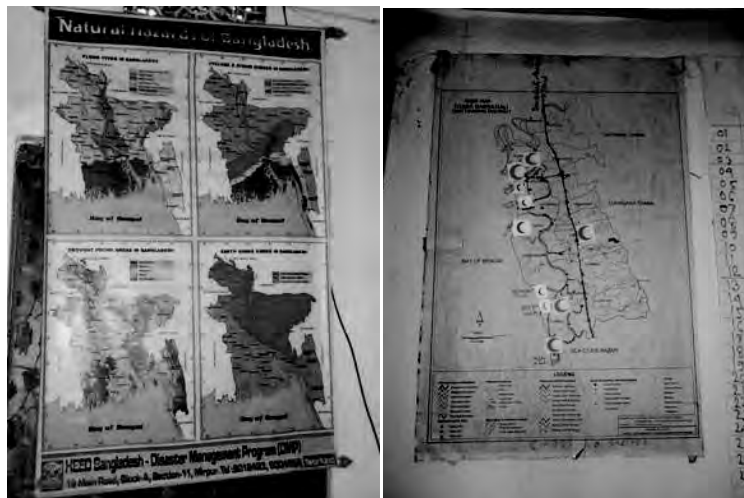
(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	65%	The polder is badly damaged and affected by erosion. For this reason, it cannot protect the area from water inundation. Once water merges in, it takes long time to go down. For this reason, even in normal high tide, water comes in and damages crops in the field.
Fisheries	25%	Life risk, 26 fishermen went missing during sitor.
Manufacture	1 garment factory 200 workers	
Service	10% migrated to urban area	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Pictures: Hazard map of the country and a very old hazard map pointing Red Crescent cyclone shelters of Bashkhal.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

There is a water board office in Kalipur.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	26 June, 2012	It was highest amount of rainfall in their history (483 mm), which commenced into land slide that caused 7 deaths and also water logging damaged crops.
Inside water inundation		
Cyclone	1960, 1970, 1991, 1997(2), 2007	50,000 people died in Bashkhali during 1991 cyclone.



Pictures: Meeting with DMC and CPP in Bashkhali upozila.

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: LGED

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: NGOs (Dishari consortium, Oasis, HEED (closed 2008), RCS, Islamic relief, etc. J:

E: Union DMC K:

F: Upozila Administration and PIO L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	C	C, E	E	C, E	A, D, F	F	F, H	A, F	F, C
Union									
Gram									
Para									
Individual									
I									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC 43, CPP 52 units

Part-time: 52*15

(2) Office and Equipments

Sole use office room:

Both CPP and UNO office are inside the Upozila Porishad compound.

Equipments : √Desks √File cabinets
 ×Copy machine √Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?√
- Planning/Reviewing/Updating disaster management plan×
- Staff training

CPP: CPP volunteers received fast aid and rescue training in 2009.

- Emergency drill at district/ Upazila/ Union level

One and half years ago, they conducted a tsunami test alert.

- Equipment maintenance

20 out of 54 megaphones are still damaged with 'Mahasen' approaching the next day. Damaged instruments are supposed to be sent to Chittagong work shop. It takes long time to recover.

- Inter organizational/Stakeholder meeting

Usually they are school/ collage based meetings; now stopped for last two years.

- Drawing/Reviewing/Updating hazard map×
- Residents awareness campaign

Last time conducted two years ago. Usually they do rallies with awareness information Festoon, placard, etc

- Residents evacuation drill

Not done recently

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

They have allocation for 500 metric tones of rice. Also, last year LGED allocated BDT 250,000,00 in cash for work project in two sessions.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?√
- Please describe gaps between the SOD and actual activities? If any.

DMC: LGED roads are simply out of order. Embankments are broken. Excavation of channels is very much necessary at the moment. .

CPP: road communication is the biggest problem in this area. After disasters like sidor/ aila, mud etc comes on road and blocks communication completely. CPP has only two motor cycles, both are damaged.

(1)Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs?×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time√ DC/ √UNO/ PIO office
Others:

- Do you have any issues and problems regarding warning contents?
×
- Do you have any issues and problems regarding communication method?
As long as we have electricity, mobile communication is not a problem, but the problem is that during signals, no electricity and no mobile network. At that time it becomes hard to communicate people as the road communication is very bad here.
- Do you have communication radio in the district/ upazila/ unit?
CPP: 5 out of 54 are working. Megaphone siren system in Baharchara union (not in UNO office).
- How many percent does mobile phone cover in the area?
100%
- How many percent does Mosque Microphone cover in the area?
520 mosques all have microphones. During normal time coverage 100%, but during disaster depending on wind direction, some people may be out of network.
- Gondamara and Shorol union has no electricity. In rest of the unions, 60% has electricity coverage.
- 2% have solar power system
- TV network 100%, Mobile network 100%, AM radio network 100%, FM radio 60%, Electricity: 70% area get supply for 10-14 hours.
- 70% residents have mobile phones.

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Government issues evacuation order, they get weather bulletin from CPP control room. After the signal is 8, it is automatically evacuation order.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance

Elderly, women, children, pregnant, disable people are first priority.

(2) Shelter Management

Usually school management committee is in charge of shelter management as most of the cyclone shelters are used as schools. After the signal is 4, they open the cyclone shelters for people and hand over the keys to CPP.

(3)Rescue and Search

In each CPP unit, there are 3 people for rescue and three for search. After the disaster is gone, they do rescue and search, local elites also support them.

(4)Sufferer Help

Government comes through PIO.

(5)Damage Survey

Union porishad does the damage survey.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

➤ zoning for each evacuation shelter

After signal 4, there will be a coordination meeting. Zoning for each cyclone shelter is decided in the meeting.

➤ evacuation route

use local knowledge to get to the cyclone shelters.

➤ shelter capacity

Capacity of cyclone shelters vary from 500-2,000. There are 15 killa's for protection of animals in this upozila.

➤ storage of food and water, and so on

×

(2)Current Condition of shelters

- Number of shelters : 117 Existing: 116 Plan:
- Total capacity : 81,200 Population ratio 18%
- Solo use: 20% Multi use: rest of it
- Other purposes of multiuse shelter: usually schools with some unions and madrasas (Islamic schools).

- Do you think the shelters have enough height for tidal wave/ flood?
√

(3)Operation / Management

- Owner
School management committee
- Operation/ Management
School management committee
- Cost burden
Donors, government bodies.

(4)Shelter Management Manual

- Do you have a shelter management manual?×

9. Records

(1)Record of Activities

- Do you have obligation to record normal time activities and report it?√
- Do you have obligation to record activities under state of emergency and report it?√

(2)Damage Records

- Do you have obligation to survey disaster damage and report it?√
- Could you provide information which organization is in charge to record each item in the table below?

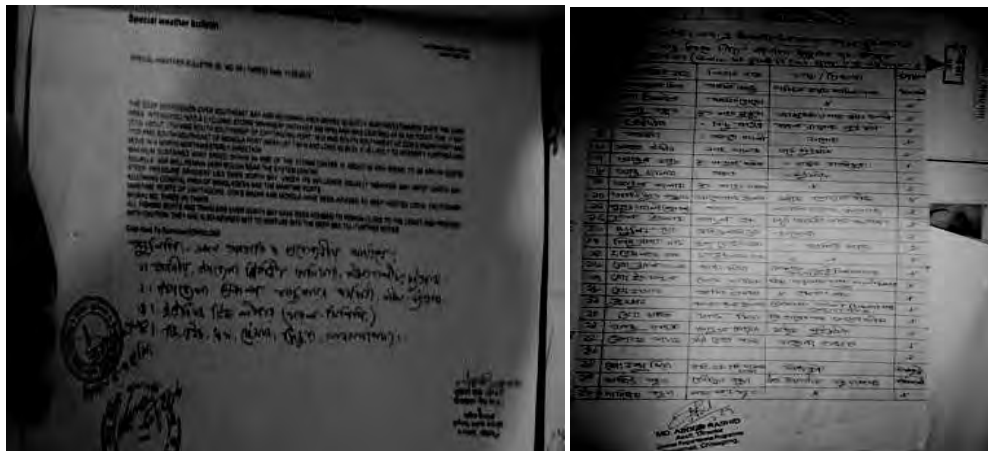
	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	-	
Private Sector	Building	CPP, UP	
	Agriculture	Agriculture officers	
	Fisheries	Fisheries department	
	Manufacture	-	
Public Sector	Road, Bridge	UP report to LGED	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Upozila porishad office was burned by violent political activists, most of their documents were burned or damaged during that time.

#	1	2	3	4	5
Name	Sidr				
Type	cyclone				
Start Date	13.11.2007				
End Date	15.11.2007				
Maximum Wind Velocity	120-150 ft				
Highest Sea Level	2-5 ft higher				
Total Rainfall					
Dead Missing	26 missing				
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					



Pictures: CPP bulletin for Mahasen is computer composed and officially received and signed by the UNO and list of 26 missing fishermen in Sidor.

Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidr
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

Road transport and communication was the biggest problem, roads are badly damaged; especially the ones that connect the unions with upozilla.

- ✓ Alert and Warning Stage:

It started raining and made road communication more difficult.

- ✓ Disaster Stage

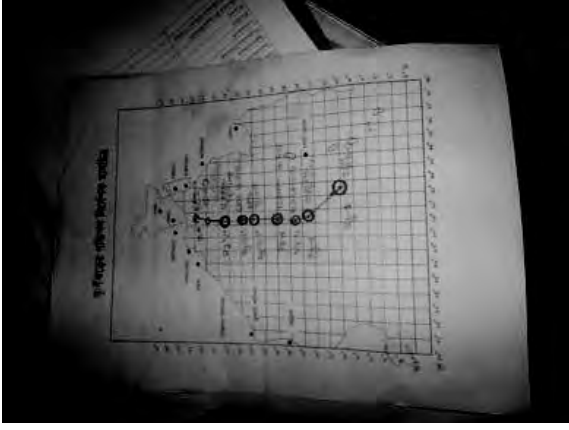
Communication barriers; trees fell on roads, etc.

- ✓ Rehabilitation Stage

Relief comes very late to this area.

- Evacuation rate was around 70% during sidr.
- 26 fishermen went out for fishing near Khulna region and never came back, considered missing.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	11.11.07	9pm		-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	1	-Notice -Recommendation -Order					
2	Approaching	13.11.07	9am				4						
3	Approaching	15.11.07	3am				9						
4	Ongoing	15.11.07	6am				9, 10						
5	Ongoing	15.11.07	6pm				9, 10						
6													
7													
8													
9													
10													
11													
12													



Sidr tracking map in CPP office.

11. Others

Excluding Boilchhari, Fulchhari, Kalipur and Joldi all other unions are vulnerable in this area. Among them, Chhonua, khankanabad and Gondamara are the most vulnerable unions.

Erosion is another major problem in this area. The sea is causing erosion to the west bank and causing damage to the polders. 3 cyclone shelters went under water in last 10 years. One of which was funded by JICA in Shadhonpur. Sea erosion caused damages to polders of Khankanabad, Chonua, Gondamara, Baharchara, Shorol and Katari unions.

In 1991 cyclone, 50,000 residents of this upozila died. Therefore, local peoples' awareness is very high about cyclones since then. CPP activity in this area has started from 1992. Before then, they were active only in chokoria and Cox's bazaar. CPP has units in 8 out of 15 unions of this upozila. They are: Khankanabad, Baharchhara, Kataria, Shorol, Shilkup, Gondamara, Shekherkhil and Chhonua

At the time the C team went to CPP office at 2.00 pm, the signal of Mahasen was raised to 4. The CPP called their team leaders and informed them about the signal level and also raised two flags in Upozila porishad.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.

(3) Responding Date and Hour

14 / 05 / 2013

(4) Responding Place

Baharchhara union porishad office

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Baharchhara union porishad, Bashkhali, Chittagong

(2) Organization Chart

- Could you provide the latest organization chart? if any.

Same as other unions

- Which departments/units are in charge of disaster management in the latest organization chart?

Union DMC, CPP

The union has digital Bangladesh project instruments: computer, internet, scanner, printer, camera.

(3) Number of Human Resources

Quorum: Enrollment:

(4) Population and Number of Household

Year: 2011 Source: census

Population:

Male: Female: Total: 33763

Number of Household: 6274

(5) Area

27 \sqrt Square kilometer/Hectare (5496 acres)

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			7
Number of Para			
Number of Polder			1 (5 km)

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	65%	Crops are damaged before harvesting, the height of the polder of this union is very low (6 ft), in every 3-4 years water level becomes high enough to cross the polder. Once it has crossed the polder, it caused water logging and damages the crops.
Fisheries	15%	Life risk
Manufacture	×	
Service	Rest of it service or migrated to urban area	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Hazard map of Baharchhara union

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	2012 June	5 villages were inundated
Inside water inundation		
Cyclone	1991, 1997, 2007, 2009	5,000 people died in 1991 cyclone in this union, crops, land and polder has been damaged.

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?
- A: Disaster management committee G: Gov agencies: PIO, UP, Agriculture and fisheries, LGED
- B: Disaster Relief & Rehabilitation Office H:
- C: CPP I:
- D: NGOs (Islamic relief, Muslim Aid, ASD, Red Crescent: BCDPC project, etc) J:
- E: School Management Committee K:
- F: Army L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	A, C	D, C	E, C	F, G	A, D	A, C	G	G	A, C
Gram									
Para									
Individual									
I									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DNC: 31, CPP: 9

Part-time: 9*15

(2) Office and Equipments

Sole use office room

Equipments : √Desks ×File cabinets

 ×Copy machine ×Computers

Baharchhara union porishad have Digital Bangladesh equipments in their office.

CPP has only two tables and chairs. And CDPM funded megaphone siren system. The siren is located on the roof of the union porishad building and the operating machine is inside the CPP office room.

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?√
- Planning/Reviewing/Updating disaster management plan

Union level is not involved in planning or updating the plan, it comes centrally.

- Staff training

DMC: The UNO, upozila chairman and union chairman received disaster management training six months ago from Bangladesh government. Another cash for training was arranged by Muslim Aid 10-15 days ago in each ward. It was a four day training on disaster management and WATSAN for women group in a batch of 70-80.

CPP: CPP volunteers received one training 4 months ago, another one will take place in June this year.

- Emergency drill at district/ Upazila/ Union level

One was performed 1 year ago.

- Equipment maintenance

Damaged instruments of CPP are sent to upozila CPP office.

- Inter organizational/Stakeholder meeting×
- Drawing/Reviewing/Updating hazard map

One hazard map was found in a room next to the chairman's room in porishad building but no one seemed to be aware of it.

- Residents awareness campaign

Every year, they remember the 1991 disaster through rally, etc. This year it was done in 28th April in Disaster management day.

- Residents evacuation drill ×

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

In 2012-2013 financial year, the budget for this union was BDT 1.5 million.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency



Pictures: Two flags in the union complex building on the 14th and the megaphone siren system

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? ✓
- Please describe gaps between the SOD and actual activities? If any.

DMC: There should be some local disaster management funds for emergency use.

As the signal goes higher, there is no electricity, no source of drinking water, no food to serve them and no primary health kits for treatment in the shelters.

CPP: The union road connecting the upozila was constructed in 2010, funded by JICA. Before then the road communication was very bad. Still now, we do not have any connecting roads with the ward or cyclone shelters. During emergency, elderly or weak people may slip and fall. CPP volunteers do not have any live jackets, rain coats or boots for their own safety.

The biggest problem of this area is that the height of the polder is only six feet. So, during cyclone, water level crosses the polder and cause damages to the crops and becomes a threat for the people living near to the polder.



Picture: LGED cyclone shelter and low height polder in Baharchhara

(1)Number of Human Resources

- How many staffs are mobilized? All
- Do you have any regulations/ rules for mobilization of staffs? ×

(2)Office and Equipments

- Where is emergency head quarter office set up?
 Same as normal time √ DC/ UNO/ PIO office
 Others: Union porishad building
- Equipments : √Desks ×File cabinets
 ×Copy machine ×Computers
 ×UPS ×Internet
 ×TV set ×Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
 DMC: Upozila CPP, PIO, UNO through mobile phone.
 CPP: Upozila CPP through mobile phone

- Where do you send the warning to? What is communication method?
DMC: Ward members through mobile, Megaphone siren system has been installed 1 month ago, but their staff did not receive any trainings yet. So, next time they can use this system as well.
CPP: Unit team leaders through mobile.
- How long does it take usually since receiving till sending information?
1 hour
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
After 1991, people of this region have become more aware. Now they understand the contents.
- Do you have any issues and problems regarding communication method?
In some cyclone shelters, there are no connecting roads.
- Do you have communication radio in the district/ upazila/ unit?
None of the radios are working now.



Meetings with DMC and CPP Baharchhara

- How many percent does mobile phone cover in the area?
80%
- How many percent does Mosque Microphone cover in the area?
100 Mosques, 70 have mikes, coverage 90%
- 50% electricity coverage
- 5% solar energy coverage
- TV and AM radio coverage 100%, but very few have TV at home
- FM radio 80%
- Mobile phone ownership 60%
- Use of radio: 20% FM, 10% AM

do not have any connecting roads.

- shelter capacity: 20*500
- storage of food and water, and so on:

The team visited one LGED cyclone shelter, which is being used as a madrasa (Islamic school) now. It had water supply facility in the ground floor but the tube well was gone long time and toilets had waste tanks at the back, which were full. Therefore, water and sanitation was out of order. And no food storage for emergency

(2)Current Condition of shelters

- Number of shelters : 20 Existing: 20 Plan:
- Total capacity : 10,000 Population ratio 29%
- Solo use: 8 Multi use 12
- Other purposes of multiuse shelter: School, UP office, Madrasas
- Do you think the shelters have enough height for tidal wave/ flood? ✓

(3)Operation / Management

- Owner
Donor / Bangladesh government
- Operation/ Management
School committee, CPP
- Cost burden
Donor/ Government, but never been repaired since maintained.



Pictures: Broken tube well, overflowing toilet and the pupils of madrasa at the LGED cyclone shelter

(4)Shelter Management Manual

- Do you have a shelter management manual? ✕

9. Records

(1)Record of Activities

- Do you have obligation to record normal time activities and report it? ✓
- Do you have obligation to record activities under state of emergency and report it? ✓

(2)Damage Records

- Do you have obligation to survey disaster damage and report it? ✓
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP	
Private Sector	Building	UP	
	Agriculture	UP, Agriculture officer	
	Fisheries	UP, Fisheries officer	
	Manufacture	-	
Public Sector	Road, Bridge	UP, LGED	
	Dike	WAPDA, LGED	
	Public Utilities	UP, Upozila porishad	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Records are sent to upozila office.

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					

Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

Communication and maintenance of equipments

✓ Alert and Warning Stage:

Communication and instruments

✓ Disaster Stage

The polder is low; only 6 feet. Water comes very near to the polder during tidal surge.

✓ Rehabilitation Stage

As the height of the polder is low, after the water crossed the polder, it took long time to get down. By this time, salt water damaged all the crops in the field. Aila water inundation caused water logging for 15 days.

- 30% residents evacuated to the shelter during 2012, during 2009: 75%

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	24.5.13	3pm		Upper Agency Lower Agency Other Agency NGOs Residents Public Media	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	11 Level 8-10 Level 6 Level	Notice Recommendation Order	Face to Face	letter	To keep people Prepared and The shelters open		
2	Approaching	24.5.13	6pm		TV/ Radio	Neighbors	5	Notice	TV/ Radio	TV/Radio	Same in local Language From Chittagong TV station		No electricity
3	Approaching	25.5.13	7pm		TV/ Radio	Neighbors	3	Notice	Radio	Talking	Come to a safe place Female need special Attention Keep livestock in Safe place		Raised confusion
4	Passing	25.5.13	7.30 pm		TV/ Radio	Neighbors	6	Recommendation	Radio	Talking	Message continued		Water started Crossing the polder
5	Passing	25.5.13	8.30 pm		TV/ Radio	Neighbors	7	Recommendation	Radio	Talking	Message continued		Water logging
6													
7													
8													

12. Others

The union is located by the Bay of bengal. In 1991, this area and other sides of the upozila was brutally affected. Around 50,000 people died in the upozila of which more than 5,000 from each union. CPP and DMC were established after that in 1992.

A major issue of this union is that the height of the polder is not enough to protect the land during cyclones.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Rezaul Hoque Choudhuri	Chairman	Union Porishad	01711440050
MD Yunus Shahi	VHF operator	CPP	01833206853
Other respondents in the participant list			

(3) Responding Date and Hour

15 & 19 / 05 / 2013

(4) Responding Place

Union Porishad, Chhonua, Bashkhali, Chittagong

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Chhonua Union Porishad

(2) Organization Chart

- Could you provide the latest organization chart? if any.

Chairman>Secretary>9 ward members> Head guard>9 village guards

- Which departments/units are in charge of disaster management in the latest organization chart? CPP and DMC

(3) Number of Human Resources

Quorum:

Enrollment:

(4) Population and Number of Household

Year: 2011

Source: Census

Population:

Male:

Female:

Total: 28,748

Number of Household: 5586

(5) Area

20.19 \sqrt Square kilometer/Hectare (4991 acres)

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			7
Number of Para			
Number of Polder			1 (18.288 km)

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	Salt cultivation 75%, Paddy 20%,	Economic loss.
Fisheries	5%	Life risk
Manufacture	×	
Service	×	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Risk and property map of Chhonua union funded by CARE and USAID through UDDIPAN NGO in 2008.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

There is none at the moment, but the chairman suggested that there should be a cyclone shelter come Meteorological observation station in this area.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	1991, 1997, 1998, 2012, 2013	5,000 people died in 1991 cyclone in Chhonua union.

In Mahasen, there were no death records by the cyclone. But one woman died inside of a JICA cyclone shelter. The chairman and other people said that she might have been suffering from other problems, and then maybe she got sicker during the storm. There is an LGED installed bridge in Chhonua, which is damaged. The bridge has metallic sheets on I shaped bars. The metals are badly damaged. Salt water can be a reason. The local people said that some local residents as well as more than 20 cows and goats were injured while crossing that bridge during the cyclonic storm.



6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC: 21, CPP: 8

Part-time: 8*15

(2) Office and Equipments

Sole use office room: CPP: √ DMC: × temporary

Equipments : ×Desks ×File cabinets

 ×Copy machine ×Computers

CPP has only one plastic table and chairs.

DMC: the union has digital Bangladesh equipments.

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?√
- Planning/Reviewing/Updating disaster management plan×
- Staff training

CPP: 3 volunteers of each group received fast aid training in 2009, by EU,

DMC: 4 years ago, UDDIPON NGO arranged training for UP members and chairman of the union. They went to Cumilla BARD and stayed there for 4 days.

- Emergency drill at district/ Upazila/ Union level

In 2012, arranged in Chhonua high school ground

- Equipment maintenance

Once the CPP instruments are damaged, it is sent to the upozila and it takes months to return.

- Inter organizational/Stakeholder meeting

Arranged in 2010, female residents are shown flip charts to describe their role during disasters.

- Drawing/Reviewing/Updating hazard map

2008, done by UDDIPON, the hazard maps are near the markets.

- Residents awareness campaign

Three years ago, a rally was arranged by UDDIPON

- Residents evacuation drill

It was arranged twice by CPP in two cyclone shelters in 2010 and 2011.

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Last year's allocation for this union was BDT 5,00,000.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?√
- Please describe gaps between the SOD and actual activities? If any.

DMC: road communication is very poor in this area. No organization want to work here due to communication problem. The DMC has no local funds or instruments like siren or megaphones to be used during disaster.

CPP: Road communication is very bad even during normal time, during emergency, the roads become unusable. And CPP has very limited instruments to face disaster in this area. Almost all the houses are just small tented structure, during cyclone, the capacity of cyclone shelters are not adequate. Most of the people went towards the mountains to take shelter in high lands.



Picture: Salt harvesting grounds in Chhonua; the pictures also describe communication between wards and house structures of the area.

(1) Number of Human Resources

- How many staffs are mobilized?
- Do you have any regulations/ rules for mobilization of staffs?

(2) Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time ✓ DC/ UNO/ PIO office
Others:
- Equipments : ×Desks ×File cabinets
×Copy machine ×Computers
×UPS ×Internet
×TV set ✓Radio receiver



Pictures: CPP instruments and their office with the antenna and hazard map in RC Cylone shelter.

7.2 Warning

(1) Warning

- Where do you receive the warning form? What is communication method?
DMC: PIO office through mobile also from CPP through mobile, CPP receives warning through their VHF receivers.
- Where do you send the warning to? What is communication method?
Warning are sent to members of UP and choukidars (village police) and in some cases messengers.
- How long does it take usually since receiving till sending information?
4-5 hours in furthest points in case if a messenger has to be sent.

- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
×
- Do you have any issues and problems regarding communication method?
Road communication is the biggest problem in this area.
- Do you have communication radio in the district/ upazila/ unit?
× (CPP has a VHF set)
- How many percent does mobile phone cover in the area?
100%, during emergency only Grammen phone gets signals. 80% have mobile phones in their family.
- How many percent does Mosque Microphone cover in the area?
There are 35 mosques in this area, out of them 30 have mikes. coverage is around 90%.
- Electricity coverage is 10% and coverage time will be 7-8 hours, 10% residents have solar power.
- 20% people listen to the radio
- TV network is poor, do not get reception without antenna, FM radio: 0%, AM radio: 100%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?



Picture: CPP meeting in Chhonua union

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

No guidance, women, elderly and children are priority.

(2) Shelter Management

Volunteers have team distribution to manage shelters. Also, local elite people help during emergency.

(3) Rescue and Search

People have mobile numbers of chairman and members. They call them if they need their assistance.

(4) Sufferer Help

UP chairman and members receive help according to their damage report from the upozila administration.

(5) Damage Survey

UP and CPP both does the damage survey.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

No proper distribution, other wards have 1/ 2 cyclone shelters but there are no cyclone shelters in ward 6.

- evacuation route

Roads are damaged, in some cyclone shelters, there are no connecting roads.

- shelter capacity

Very low compared to the population. During Mahasen, 20,000 people went outside of the union. 10% have relatives in urban side, the others went towards the mountain side on foot.

- storage of food and water, and so on×

(2)Current Condition of shelters

- Number of shelters : 16 Existing: 15 Plan:×
- Total capacity : 3,000 Population ratio: 10.4%
- Solo use: 7 Multi use 8
- Other purposes of multiuse shelter: School, CPP office, etc.
- Do you think the shelters have enough height for tidal wave/ flood?√

(3)Operation / Management

- Owner
School Committee
- Operation/ Management
School Committee
- Cost burden
No one

(4)Shelter Management Manual

- Do you have a shelter management manual?×

The team visited one cyclone shelter funded by Japan government in Chhonua. It is being used as a primary school now. There were 400 people in that cyclone shelter during Mahasen. The shelter has separate sanitation facility for men and women and rain water harvesting system on top. There is a newly made killa to one side of the shelter. It was used to keep livestock during Mahasen.



Pictures: the JICA cyclone shelter in Chhonua and the killa by the cyclone shelter.

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
- Do you have obligation to record activities under state of emergency and report it?

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP, CPP	
	Injured	UP, CPP	
	Evacuees	UP reports to upozila	
Private Sector	Building	UP	
	Agriculture	Block supervisor (Union agro officer)	
	Fisheries	Block supervisor (Union agro officer)	
	Manufacture	-	
Public Sector	Road, Bridge	UP reports PIO	
	Dike	UP reports WAPDA	
	Public Utilities	UP reports PIO	
Generalization, Statistics			

Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

Records are sent to the upozila, they had rough copies of the Mahasen bulletin.

#	1	2	3	4	5
Name	Mahasen				
Type	Cyclone				
Start Date	11.05.2013				
End Date	16.05.2013				
Maximum Wind Velocity	88 kmph				
Highest Sea Level					
Total Rainfall					
Dead Missing	-				
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidor
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times: Communication was very bad at that time.
- ✓ Alert and Warning Stage: Battery supply was not adequate, road communication was very bad.

- ✓ Disaster Stage

No rain coats, helmet, boots, torch, most of the megaphones were out of order.
No electricity in cyclone shelters. no sanitation facility.

- ✓ Rehabilitation Stage

It took long time for communication problem.

- ✓ During Mahasen, 85% people evacuated

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order					
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													

11. Others

The union is isolated in terms of communication. Their distance from Bashkhali upozila is 56 km through highway from Chittagong. Distance of Chhonua union is only 15 km from the upozila porishad. But the 10.6 km connecting road between the union and the upozila road is so badly damaged that it took us two and half hours to travel to the union from Chittagong.



Pictures: Community participants and the damaged bridge, where people were injured during Mahasen



Picture: Damaged polder in Chhonua; there are 7-8 damaged sites along the polder.

Their polder is damaged in places. The members of the UP showed us video clips that during high tide, water reaches the top of the polder.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Md Shahajahan	Chairman	Upozila Porishad	01739446646
Nur-e-Khaza Al-Amin	UNO	Upozila Admin	01771572787
Mazharul Islam	Team Leader	CPP	01715317847

(3)Responding Date and Hour

20 / 05 / 2013

(4)Responding Place

Upozila Complex and CPP office Shandwip

(5)Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

Shandwip upozila porishad, Chittagong District.

(2)Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

DMC, CPP

(3) Number of Human Resources

Quorum: 30

Enrollments: 30

অফিসের ধরন	সংখ্যা	নাম	সংখ্যা	নাম
উপজেলার চেয়ারম্যানের কার্যালয়	১	উপজেলার নির্বাহী ম্যাজিস্ট্রেট কার্যালয়	১	উপজেলার নির্বাহী ম্যাজিস্ট্রেট কার্যালয়
উপজেলার বিকল্প কমিশনারের কার্যালয়	১	উপজেলার দু'টি অফিসের কার্যালয়	২	উপজেলার দু'টি অফিসের কার্যালয়
উপজেলার অফিস চেম্বারের কার্যালয়	১	উপজেলার বিভিন্ন বিভাগের কার্যালয়	১৫	উপজেলার বিভিন্ন বিভাগের কার্যালয়
উপজেলার অফিস সহকারীর কার্যালয়	১	উপজেলার যুব উন্নয়ন কার্যালয়	১	উপজেলার যুব উন্নয়ন কার্যালয়
এসি (সিভিল) কার্যালয়	১	উপজেলার সামান্য কর্মচারীর কার্যালয়	১	উপজেলার সামান্য কর্মচারীর কার্যালয়
উপজেলার (জাতীয়) শিক্ষা কার্যালয়	১	উপজেলা মাধ্যমিক শিক্ষা কেন্দ্রের কার্যালয়	১	উপজেলা মাধ্যমিক শিক্ষা কেন্দ্রের কার্যালয়
উপজেলার প্রকৌশলীর কার্যালয়	১	উপজেলার সড়ক উন্নয়ন কর্মচারীর কার্যালয়	১	উপজেলার সড়ক উন্নয়ন কর্মচারীর কার্যালয়
জমিয়ার ডিভিশন সূত্রক ও পরিচালনা	১	উপ-সহকারী প্রকৌশলীর কার্যালয় (সিভিল)	১	উপ-সহকারী প্রকৌশলীর কার্যালয় (সিভিল)
উপজেলার প্রকল্প পরিচালনার কার্যালয়	১	উপজেলার পরিদপ্তরের কার্যালয়	১	উপজেলার পরিদপ্তরের কার্যালয়
উপজেলার সমন্বয় কার্যালয়	১	উপজেলার মহিলা কার্যালয়	১	উপজেলার মহিলা কার্যালয়
উপজেলার অফিস সহকারীর কার্যালয়	১	উপজেলার বৃত্তিমূলক কার্যালয়ের কার্যালয়	১	উপজেলার বৃত্তিমূলক কার্যালয়ের কার্যালয়
উপজেলার শিক্ষা কার্যালয়	১	উপজেলার ইকনমিক রিসার্চ কার্যালয়	১	উপজেলার ইকনমিক রিসার্চ কার্যালয়
উপজেলার সড়ক কার্যালয়	১	উপজেলার প্রকৌশলী (জলসঞ্চয়)	১	উপজেলার প্রকৌশলী (জলসঞ্চয়)
উপজেলার অফিসের কার্যালয়	১	অফিস সুপারভাইজার কার্যালয়	১	অফিস সুপারভাইজার কার্যালয়

List of offices in Upozila complex

(4) Population and Number of Household

Year: 2011

Source: Census

Population:

Male:

Female:

Total: 2,78,605

Number of Household: 56,617

(5) Area

762.42 √ Square kilometer/Hectare

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		15 unions, 1 pouroshova	
Number of Gram			
Number of Para			
Number of Polder		1 polder	

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	50%	Crops
Fisheries	20%	Life risk
Manufacture	5% are involved in various business and shop keeping	Economic loss
Service	25% migrated abroad as labors	

(8) Map

- Could you provide map of District/ Upazila/ Union, if any?



Upozila Map of Shandwip in CPP office

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

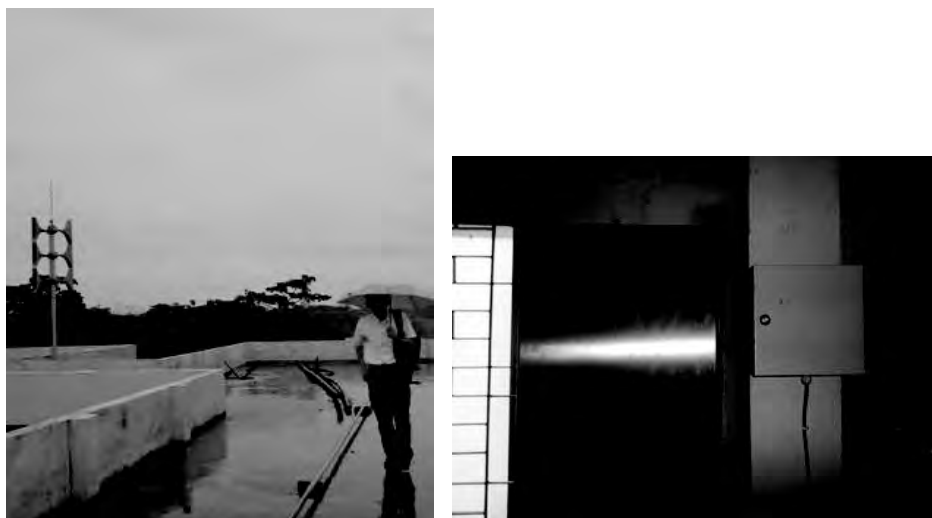
Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?

- If yes, do you have map of these locations or can you put the locations on the map?

There is one observation center in Shener Hat, But UNO does not have their contact.

- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?



Picture: CDMP financed megaphone siren system, not installed yet, but PIO's assistant said that it does not get reception in Shandwip.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation	Every year	Causes water logging and inundation by high tide and heavy rainfall.
Cyclone	1991, 1997, 2007, 2009, 2013	In 1991, 90% people of Urirchar union died in cyclone.

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP: 134, DMC: 51

Part-time: 134*15

(2) Office and Equipments

Sole use office room ✓

Equipments : ✓Desks ✓File cabinets

 ×Copy machine ✓Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? ✓
- Planning/Reviewing/Updating disaster management plan

Planning and updating is done centrally, field suggestions are not taken into consideration.

- Staff training

CPP volunteers had one training from CDMP (I) in 2010 for search and rescue, their next training will be in 2014 from CDMP (II).

- Emergency drill at district/ Upazila/ Union level

In March 2013 it was arranged only in two unions of the upozila: Rohmotpur and Sharikait, organized by the upozila administration.

- Equipment maintenance

Damaged instruments are sent to Chittagong and it takes a month for minor repairing work to be returned.

- Inter organizational/Stakeholder meeting

DMC and CPP used to organiz school based debate and essay writing competition, but it stopped six years ago for fund problems.

- Drawing/Reviewing/Updating hazard map

In 2010, BCDPC project initiated preparing hazard maps for five unions of Shandwip.

- Residents awareness campaign

Rally; last initiated 5 years ago.

- Residents evacuation drill

2013, march

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Not found; the UNO has been transferred here two weeks ago.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.



Meetings: UNO, Upozila Chairman and CPP Shandwip

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? ✓
- Please describe gaps between the SOD and actual activities? If any.

DMC: The major problem of disaster management in this area is external communication. There are no ports in this island where ships or large vessels can anchor. Relief usually does not come before emergency. After the disaster, we have to send reports and based on the damage, we get relief allocation from DC office. It takes a long time to have post disaster supports to places like Shandwip. In case of Mahasen, this was the first time in history that they received some (20 tons of biscuits) relief from WFP prior to the disaster. According to the Upozila

chairman, Shandwip should be considered as a special case and they should have local level disaster management funds available as it takes a long time to communicate the main land. Especially during cyclone like disasters, it is impossible to receive goods from the main land.

Shandwip does not have any ports due to erosion. The ships cannot anchor near the shore. Small engine boats transfer the passengers to the ship. So, the first thing that Shandwip needs is better communication means to the main land.

CPP: As Shandwip is an island, people of this area should be considered isolated and as communication with main land is a big problem, we should have more cyclone shelters to protect these people from disasters. The conditions of cyclone shelters are very poor. They don't have electricity or water supply inside the shelters.

Disaster is a big issue in coastal areas, but fund for disaster preparedness is minimal. Most of the instruments of CPP are poor quality or damaged. Instead of taking damaged items to the work shop, they can train one or two volunteers in a group to fix small problems.

(1)Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs? ×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time ✓ DC/ ✓UNO/ PIO office
Others:
- Equipments : ✓Desks ✓File cabinets
×Copy machine ✓Computers
✓UPS ✓Internet
×TV set ✓Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
CPP: from Dhaka meteorological department through HF/ VHF set. DMC receive information from DC office through mobile.
- Where do you send the warning to? What is communication method?
Warnings are sent to union chairmen from UNO and union team leaders from upazila CPP team leader through VHF, mobile and liaison volunteers. 8 unions of Shandwip have VHF sets for communication.
- How long does it take usually since receiving till sending information?
Usually 30 minutes to 1 hour.
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
Local languages should be used from local radio stations.
- Do you have any issues and problems regarding communication method?

Urirchar is the most isolated union (it takes more than two hours through engine boats from Shandwip, the team had plans to visit the union. But due to rain, there was signal 3. So, we had to change plans) and the most vulnerable to disasters. Urirchar has VHF set for CPP communication. So, they get the warning in time, but they do not have enough cyclone shelters.

Another issue is up to date information. It has happened before especially during Aila that by the time we received the signal, the cyclone has already started. Or usually we receive signals 3-6 hours late. If this time band can be shortened, this would save more lives especially the fishermen community.

- Do you have communication radio in the district/ upazila/ unit?
6 VHF sets are active at the moment and they received 136 radios in 1992, out of which only 3-4 are working now.

- How many percent does mobile phone cover in the area?

Mobile phone coverage is 100%, 90% residents have mobile phones.

- How many percent does Mosque Microphone cover in the area?
- 90% mosques have mikes, coverage is 80%. There are some out of polder population in Urirchar and Mogdhora, they are out of range from mosque microphones.
- Commercial power supply covers only 4 km around the upozilla complex that would be 5%. For a time period of only 3 hours. The markets have generators. Around 50% people use solar panels to light electric bulbs only.
- 30% people listen to the radio, TV network coverage 100%, FM radio 5%, AM radio 100%.



Pictures: Shandwip at a glance, HF set at CPP office and the complete tracking map of Mahasen in CPP office

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Upozilla administration

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

People are now more aware of signals. Before, they would not believe the signals if the sky was clear.

After the signal is 8, it is automatically an evacuation order.

(2)Shelter Management

Government, Red Crescent, school management committee is in charge of shelter management during disaster.

(3)Rescue and Search

After emergency period is over, rescue volunteers take a walk around their area. As they are local, they know vulnerability of the area better. In case if they need assistance, they call the team leaders.

(4) Sufferer Help

UP members are usually in charge of relief and other assistance.

(5) Damage Survey

CPP and UP both does damage report to the UNO.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

During construction of school based cyclone shelters, location of schools are first priority.

- evacuation route

Are to be followed based on evacuees' practical knowledge

- shelter capacity: 400-500 each

- storage of food and water, and so on

As CPP do not have the capacity to arrange food and water for all the evacuees, in this area they announced in warnings to take dry food and water during evacuation.

(2) Current Condition of shelters

- Number of shelters : 103 Existing: Plan:
- Total capacity : 51,500 Population ratio: 18.4
- Solo use: 41 Multi use 62

- Other purposes of multiuse shelter

Primary and high schools

- Do you think the shelters have enough height for tidal wave/ flood?√

(3)Operation / Management

- Owner
School committee
- Operation/ Management
School committee
- Cost burden
Donor, Upozila administration

(4)Shelter Management Manual

- Do you have a shelter management manual?×

9. Records

(1)Record of Activities

- Do you have obligation to record normal time activities and report it?√
- Do you have obligation to record activities under state of emergency and report it?√

(2)Damage Records

- Do you have obligation to survey disaster damage and report it?√
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	-	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidr	Aila	Mahasen		
Type	Cyclone	Cyclone	Cyclone		
Start Date	12.11.07	23.05.09	10.05.13		
End Date	15.11.07	25.05.09	16.05.13		
Maximum Wind Velocity	220 kmph	90 kmph	88 kmph		
Highest Sea Level	29 ft				
Total Rainfall					
Dead Missing		-	-		
Injured		-	-		
Total Collapse Houses		60	50		
Half Collapse Houses		240	650		
Total Collapse Dike		1 km			
Half Collapse Dike		1 km	10 km		
Inundation Area		20 sq km			
Inundation Depth					
Agriculture Damage		30 acres			
Fisheries Damage		25 ponds	25 hatcheries		
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

It started raining and the sky was cloudy

✓ Alert and Warning Stage:

During warning stage they found out that most of their instruments were damaged. They had no raincoat or gumboots to support the volunteers in their work.

✓ Disaster Stage

Water level was unexpectedly high, 500 families were water logged in north Kalapania

✓ Rehabilitation Stage

They did not have any boats to use for rescue and rehabilitation stage, they had to hire.

- ✓ 50,000 residents evacuated during Aila, during Mahasen the number was 70,000. No deaths recorded.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activitie s	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeake r -Face to Face	-Speaking -Fax -Email			
1	Approachin g	23.05.0 9	7 pm	1 hour	Upper	Lower	3	Notice	HF	Speakin g	Position Distance Wind speed All fishing Boats not To venture In deep sea	1 flag Verbal warning	
2	Approachin g	25.05.0 9	8 am	1 hour	Upper	Lower	7/6	Notice	HF	Speakin g	Distance Position Signal	2 flags warning	
3	Passing	25.05.0 9	1.30 pm	1 hour	Upper	Lower	7	Notice	HF	Speakin g	Distance Position Signal Likely to cross India at 2 pm	2 flags warning	Water was already in
4													
5													
6													
7													

12. Others

First requirement of the people of Shandwip is vassal to cross Shandwip channel.

CPP mentioned that they have six selected places for cyclone shelters if any donor is interested, they can build cyclone shelters here. It is an emergency need to them.

The UNO said that the most vulnerable people are the ones who live near the polders. Their houses are built of low cost material, so it does not hold against cyclones or storms. So, they need mini-trucks to move these people from their houses to cyclone shelters. Using them, they can keep some of their belongings with them. After cyclone, these trucks can be used to distribute relief.

There is a new union named Digha para, where there is no CPP unit distribution. They requested their HQ, but the population of their area is only 1200. So, they are not getting any answers yet. Musapur needs more units.

Urirchar, Jahaijar char, Thengar char are isolated unions as they are separate islands and more vulnerable to disaster than any other unions.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
ABDUL MALEAK	Chairman	UP	01711748257
KAZI FAKRUL	Team Leader	CPP	01734737945

(3) Responding Date and Hour

21 / 05 / 2013

(4) Responding Place

Union Porishad building and Rohmotpur High School Building

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Rahmatpur Union Porishad, Shandwip upozila, Chittagong

(2) Organization Chart

● Could you provide the latest organization chart? if any.

Chairman > Secretary > 9 UP members > Head guard > 9 village guard

● Which departments/units are in charge of disaster management in the latest organization chart?

DMC, CPP

(3)Number of Human Resources

Quorum: Enrollment:

(4)Population and Number of Household

Year: 2011 Source: census

Population:

Male: Female: Total: 8,088

Number of Household: 1,509

(5)Area

10.73 \sqrt Square kilometer/Hectare

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			1 village
Number of Para			
Number of Polder			1

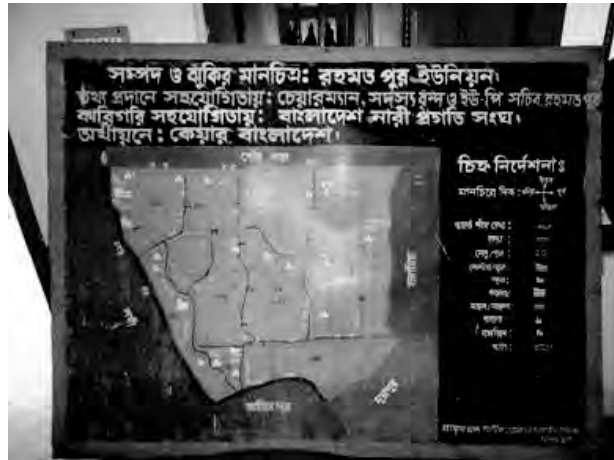
(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries	20%	Life risk, economic loss
Manufacture	60% day labors	Lose jobs, household damaged, life risk for people living near the polders
Service	20% foreign currency	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Hazard map in Rahmatpur union porishad

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

-No observation station

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	1985, 1991, 2009, 2012, 2013	In 1991, 1200 deaths,

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?
 A: Disaster management committee G: Upozila administration, School committee
 B: Disaster Relief & Rehabilitation Office H:
 C: CPP I:
 D: NGO(SDA, Karitash, Nigera kori, Nari progoti)J:
 E: UP K:
 F: Local elites, students L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.
 Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C, F	C, F	C, G	A, C, E	A, D, E, F	C, E	C, E, H	D, E, H	C
Gram									
Para									
Individual									
1									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP: 6, DMC: 26

Part-time: 6*15

(2) Office and Equipments

Sole use office room: CPP- No sole office/ room, coast guards have occupied and have been using their room for last 2 years in union parishad building.

Equipments : √Desks File cabinets
 Copy machine Computers

- The union has digital Bangladesh project equipments



Pictures: DMC meeting and union parishad building in Rahmatpur

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? √
- Planning/Reviewing/Updating disaster management plan
- Staff training

CPP: 7-8 years ago, CPP team leaders mentioned that CPP in Potia and Anowara are receiving a 4 day training from some project, they are looking forward to have that kind of a training.

- Emergency drill at district/ Upazila/ Union level

Last done in 2010 with school students

- Equipment maintenance

Damaged equipments are sent to CPP upozila office

- Inter organizational/Stakeholder meeting

Usually done in March every year

- Drawing/Reviewing/Updating hazard map

Team leaders get idea of hazard map during training, others don't.

- Residents awareness campaign

Last time done in upozila complex in 2008

- Residents evacuation drill

×



Pictures: CPP meeting in Rahamatpur high school

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?√
- Please describe gaps between the SOD and actual activities? If any.

DMC: Communication with the main land is the greatest problem for Shandwip people. Electricity is the second one. Due to erosion, there is no port in Shandwip.

The Chairman suggested that a dam should be built connecting Shandwip

Urirchar and Companigonj. It will solve both of the communication problem and erosion problem.

CPP: Damaged instruments are as usual the greatest problem of CPP. This CPP mentioned that they need some identity cards just for their own satisfaction so that they can get some honor as members of Red Crescent. They need motorcycles and bicycles to maintain communication among the union and unit team. They also urged for good quality two band radios. They have no emergency fund for disaster preparedness.

(1)Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs? ×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time DC/ UNO/ PIO office
Others: CPP uses the local school building as control room.
- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
From UNO office through mobile as well as issued letter
- Where do you send the warning to? What is communication method?
Warning is sent to ward level and to CPP unit leaders
- How long does it take usually since receiving till sending information?
Through mobile: 30 minutes to 1 hour. In case if they need to send liaison volunteers, it takes 2 hours.
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
×
- Do you have any issues and problems regarding communication method?
Sometimes mobile network interrupt during disaster.
- Do you have communication radio in the district/ upazila/ unit?
×
- How many percent does mobile phone cover in the area?
90% coverage, ownership: 95%
- How many percent does Mosque Microphone cover in the area?
15 mosques, all have microphones, coverage 100%.
- Electricity in 4-5 houses that would be less than 1% for 4-5 hours. They have generators in the market, those supplies in 10% area.
- 20% coverage by solar system
- 100% TV network but no electricity, AM 100%, FM 00%, radio users-15%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Auto

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

During warnings, name and position of cyclone shelters are also mentioned

(2)Shelter Management

Usually school management committee is in charge.

During Mahasen, one group of volunteers arranged generator in the cyclone shelter they also arranged dish TV news in the shelter so that the residents get proper news and do not get falls alarms.

But sanitation is a big problem. After using them, no one wants to clean.

(3)Rescue and Search

They have one rescue leader and assistant in each group but their instruments; recue bags etc are damaged.

(4)Sufferer Help

The UNO asks for damaged list. Then the UP send them damaged report, which gets approval from the UNO and sent to the DC office. The Ups send cards to the families that are about to get the relief and then they have to appear on respective dates to get the relief.

(5)Damage Survey

Same as above

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter

8 cyclone shelters are near the river and single storied so no one wants to use them. 4 are inside the polder and their heights are enough, so people use them and these four are crowded all the time.

- evacuation route

practical knowledge

- shelter capacity

Capacity would be 800 but during disasters, more than 8,000 people take shelter in those places

- storage of food and water, and so on

In this area, people were requested during warning to bring dry food and water for them as it is out of CPP's capacity to arrange food and water for them

(2)Current Condition of shelters

- Number of shelters : 12 Existing: Plan:
- Total capacity 800, but 8,000 during disaster; Population ratio: 1%
- Solo use: Multi use: all
- Other purposes of multiuse shelter: primary and secondary schools, union parishad.
- Do you think the shelters have enough height for tidal wave/ flood?
√4 , ×8

(3)Operation / Management

- Owner
Government
- Operation/ Management
School committee
- Cost burden
Government, LGED, Karitash NGO (only the karitash shelter), no active mechanism

(4)Shelter Management Manual

- Do you have a shelter management manual?×

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? √
- Do you have obligation to record activities under state of emergency and report it?√

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?√
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	UP	
	Agriculture	UP to Agriculture officer	
	Fisheries	UP to Fisheries officer	
	Manufacture	-	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

No union level document

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Mahasen
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

Communication with main land was the problem full time.

12.05.2013, 10 am (Sunday) they received the first signal: 3

- ✓ Alert and Warning Stage:

14.05.2013 Tuesday morning at 10.30 am, they received signal 4

- ✓ Disaster Stage

Food and water to the cyclone shelters and sanitation were the biggest issues at that time.

15.05.2013, 10.30 am signal was 4, they started announcing warning around 2 pm. Around 11.00 pm at night they received the information that the cyclone is going to hit at midnight or next morning.

The evacuees started coming to the shelters around 4-6 pm. Around 9-10 pm, the shelters were full and the residents started moving towards the town. At 12.00 am news they came to know that the cyclone has moved towards khepupara and tekna.

- ✓ Rehabilitation Stage

At 7 am in radio, they received the information that the cyclone will hit Shitakund around 6-7 am and after losing potential, it will move towards north. Around 10.30 they started blowing sirens, 12-12.30 at noon, people who went back to their houses came back to cyclone shelters. and the signal was down again at 7.00 pm on 16th.

People whose houses were near to the shelters left the shelters at night, But who stay far away from the shelters stayed in the shelter. People started leaving the cyclone shelters at 3.00 pm, by 6 pm the shelters were completely empty.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

12. Others

CPP activities started in 1975 in this region.

Like any other parts of Shandwip, communication with main land is a problem.

West, south and north west corners are more affected by erosion than other parts of the area.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Abdul Malek	Chairman	UP	01711748257
MD Javed Hossain	Secretary	UP	01917700352
Kazi Fokhrul	Team Leader	CPP	01812575829

(3) Responding Date and Hour

22 / 05 / 2013

(4) Responding Place

Sharikait Union Porishad office

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Sharikait Union Porishad

(2) Organization Chart

- Could you provide the latest organization chart? if any.

Same as other unions

- Which departments/units are in charge of disaster management in the latest organization chart?

CPP, DMC

(3) Number of Human Resources

Quorum: Enrollment:

(4) Population and Number of Household

Year: 2011 Source: Census

Population:

Male: Female: Total: 24,543

Number of Household: 4,612

(5) Area

34 √Square kilometer/Hectare

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			3
Number of Para			9
Number of Polder			1 (2.5 km)

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	80%	Crops and livestock are damaged during disaster
Fisheries	10%	Life risk
Manufacture		
Service	5% live abroad and another 5% are involved in service	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Hazard map of Sharikait union

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	1984, 1991, 1998	Erosion is a great challenge in this area
Flash flood		
Inside water inundation		
Cyclone	1991, 2009	Many people died in the cyclone of 1991

- Emergency drill at district/ Upazila/ Union level

The third day of the 2012 training was an emergency drill.

- Equipment maintenance

Damaged equipments are sent to upozilas and they never return them back.

- Inter organizational/Stakeholder meeting

In normal times, they do not have any budget for that but CPP people mentioned that after the signal is 4, they arrange a meeting called ‘Uthan Boithok’; front yard meeting to discuss preparations of cyclone.

- Drawing/Reviewing/Updating hazard map

During training CPP people draw hazard maps on plane papers.

- Residents awareness campaign

In the 2012 drill, mass people participated and that can be mentioned as a awareness campaign.

- Residents evacuation drill

×

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Budget for the 2012-2013 financial year is BDT 23,00,000

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

They received BDT 3,00,000 from government and World Bank for LGSP project out of 15,00,000, they will receive the rest of yearly budget from upozila

After Mahasen, they received 2000 kg rice from upozila after 5 days of the disaster.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? ✓

- Please describe gaps between the SOD and actual activities? If any.

DMC: This union has river in two sides and Bay of Bengal to the other side. Compared to the vulnerable population, there are very few cyclone shelters.

Communication roads are another problem of this area. As it starts raining during cyclone, they become more dangerous.

CPP: Their instruments are mostly damaged. They need radios, megaphone, torch, raincoat, gumboot and siren.

(1) Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs? ×

(2) Office and Equipments

- Where is emergency head quarter office set up?

Same as normal time ✓

DC/ UNO/ PIO office

Others:

- Equipments : ✓Desks ×File cabinets
×Copy machine ×Computers
×UPS ×Internet
×TV set ✓Radio receiver

7.2 Warning

(1) Warning

- Where do you receive the warning form? What is communication method?

DMC: DMC received warning from radio and TV.

CPP: CPP upozila office

- Where do you send the warning to? What is communication method?

Warnings are sent to ward members and after signal 4 they start announcing in the community

- How long does it take usually since receiving till sending information?
1 hour to the union members and 2 hours to arrange announcing
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents? ×
They don't receive actual warnings; they receive the essence over phone
- Do you have any issues and problems regarding communication method?
West side wards are nearer to the river. Road communication is a big issue during disaster. Need vehicles to communicate the members during disasters.
- Do you have communication radio in the district/ upazila/ unit?
CPP in this union received communication radios in 1984, most of them are out of order at the moment.
- How many percent does mobile phone cover in the area?
100% some interruptions during disaster
- How many percent does Mosque Microphone cover in the area?
There are more than 100 mosques in the area, all have mikes and they cover 100%
- No commercial power supply, 50% coverage by solar power.
- TV: BTV coverage 100%, AM radio 100%, FM radio 60% but most of the population do not know how to use FM radio.
- 60% have mobile phones
- 20% use radios.

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Union chairman / upozila team leader issue warning and evacuation order

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

Road communication is a big challenge in disaster situation and capacity of cyclone shelters are less than actual population.

(2)Shelter Management

Teachers and school committee members are usually in charge of shelter management

(3)Rescue and Search

Rescue team usually does rescue and army, village guards also help during emergency.

(4)Sufferer Help

According to the union porishad damage report, upozila porishad allocates necessary budget / relief to unions. But allocated budget is very small compared to the union level demand list.

(5)Damage Survey

CPP and UP members, both does damage report to UNO, then they coordinate both the reports and prepare a list according to their ability and allocate budget to unions.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter ×
 - evacuation route×
 - shelter capacity

300-500 in each shelter

- storage of food and water, and so on ×

(2)Current Condition of shelters

- Number of shelters : 19 Existing: 18 Plan:
- Total capacity : 7,200 Population ratio 29%
- Solo use: 1 Multi use 17
- Other purposes of multiuse shelter: School, up office

- Do you think the shelters have enough height for tidal wave/ flood? √

(3) Operation / Management

- Owner
Upozila Administration
- Operation/ Management
School committee
- Cost burden
Donor, (No maintenance)

(4) Shelter Management Manual

- Do you have a shelter management manual? ×

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? ✓
- Do you have obligation to record activities under state of emergency and report it? ✓

(2) Damage Records

- Do you have obligation to survey disaster damage and report it? ✓
- Could you provide information which organization is in charge to record each item in the table below?

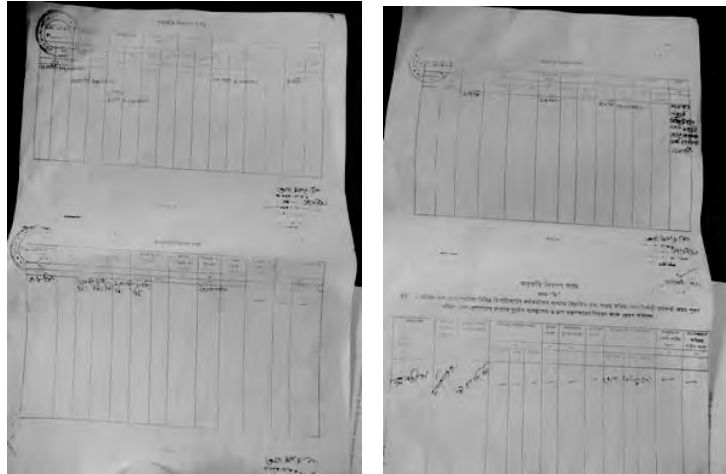
	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP, CPP	
	Injured	UP, CPP	
	Evacuees	CPP, PIO	
Private Sector	Building	UP	
	Agriculture	Bit officer, UP	
	Fisheries	Bit officer, UP	
	Manufacture	-	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

No record in union level, they only had Mahasen record as it was very recent

#	1	2	3	4	5
Name	Mahasen				
Type	Cyclone				
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing					
Injured					
Total Collapse Houses	85				
Half Collapse Houses	129				
Total Collapse Dike	6 km				
Half Collapse Dike					
Inundation Area	9 sqkm				
Inundation Depth					
Agriculture Damage	4 sq km				
Fisheries Damage					
Economic Losses					
Others					



Picture: Damage form of Mahasen for Sharikait union

Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Mahasen
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

First news was received in radio on Sunday the 12th, 7.00 am. The sky was cloudy there was no wind but it was very warm at that time.

✓ Alert and Warning Stage:

Tuesday 14th after 4pm, the signal was raised to 4.

The sky was very cloudy and it was drizzling. In radio, they said that the cyclone will attack at midnight.

15th may, the UNO called a meeting. There, they came to know that the signal was 7 at that time at 12 pm. According to the meeting resolution, they started announcing the warning at 2 pm. The sky was dark then.

Then they found out that most of their instruments were not working. Fortunately, as they had more time this time, it was possible for them to cover the whole community. And from that evening, people started moving to the cyclone shelters.

✓ Disaster Stage

On 15th; Wednesday at 8 pm they heard from the radio that the cyclone will hit Bangladesh at 12 pm at noon next day. For this reason, people started leaving cyclone shelters at midnight. Again on Thursday morning at 9 am they started announcing that the cyclone will attack soon. Then people started returning to their shelters.

It rained for half an hour (10 am- 10.30 am) and the wind started at 11 am. 85 houses collapsed in that area and 129 houses were partially damaged.

✓ Rehabilitation Stage

The storm calmed down at 3 pm but the signal was still 7. At night they declared in the news that the cyclonic storm has stopped. The signal was then 3.

✓ 90% people evacuated during Mahasen.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

- Could you provide the latest organization chart? if any. no
- Which departments/units are in charge of disaster management in the latest organization chart?

DMC: District relief and rehabilitation section

(3)Number of Human Resources

Quorum: 15 Enrollment:45

(4)Population and Number of Household

Year:2011 Source: population census

Population:

Male: 12,16,641 Female: 11,65,175 Total: 23,81,816

Number of Household: 4,15,954

(5)Area

2,391.96 Square kilometer

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	8		
Number of Union	71		
Number of Gram	992		
Number of pourosava	4		
Number of Ward	639		

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

--	--	--

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of Cox's Bazar Zila

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?

Yes, Symon road, Jotola, coxbazar

- If yes, do you have map of these locations or can you put the locations on the map?

- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	2012, 1988,1986,1987	
Flash flood		
Inside water inundation		
Cyclone	2007,2009,1097,1991	Dead, injured, Collapse housed and trees

- Residents awareness campaign
DMC: no/ but Upazila do that. District DMC tell upozila to conduct awareness campaign.
- Residents evacuation drill
DMC: once a year.

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	BDT 20085400 0 and 1247.63 m.ton rice		BDT 16365300 0 and 10437 m.ton rice		BDT 2247770 00 and 10609 m.ton rice	
Disaster Management	0		0		0	
Early Warning	0		0		0	

- Please describe the allocation policy and priority of the budget. If any.
Priority based budget

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

DMC: yes they follow

- Please describe gaps between the SOD and actual activities? If any.

DMC: One of the main problems of the SOD is that, it is too large. It should be in 15 pages. Moreover, the SOD is in English. That’s why Union chairman and other organizations staff do not feel to follow the SOD. Some of them even cant read english

(1)Number of Human Resources

- How many staffs are mobilized?

DMC: 16

- Do you have any regulations/ rules for mobilization of staffs?

DMC: no

(2)Office and Equipments

- Where is emergency head quarter office set up?

Same as normal time

DC office

Others:

- Equipments :

1Desks	1 File cabinets
Copy machine	1 Computers
1 UPS	1 Internet
TV set	0 Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?

DMC: DDM/ phone

- Where do you send the warning to? What is communication method?

DMC: Upozila/phone



- How long does it take usually since receiving till sending information?

DMC:12 minutes

- Contents of warning : Which warning signal levels do you use?

11 levels

10 Levels

6 levels

Others:

DMC: 10 level

- Do you have any issues and problems regarding warning contents?

DMC: If the warning was specific district wise, upozila wise, than it was possible to reduce the damages. Moreover, people are not used to with the new signal format.

- Do you have any issues and problems regarding communication method?

DMC: They don't have any wireless. Sometimes mobile network goes down.

- Do you have communication radio in the district/ upazila/ unit?

DMC: no

- How many percent does mobile phone cover in the area?

DMC: 95%

- How many percent does commercial power supply cover the area?

DMC:60%

- How many percent do residents have solar power system?

DMC: 2%

- How many percent do information infrastructure below cover the area?

1) TV Network-

DMC: 40%

2) FM Radio-

DMC: 12%

3) AM Radio-

DMC: 10%

- How many percent do mobile phone network cover the area?

DMC: 95%

- How many percent do residents have mobile phones?

DMC: 80%

- What's the number of Mosque?

DMC: 1834

- How Is the percentage of Mosque have microphone?

DMC: 45%

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
DMC: DDM

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

DMC: When any disaster arises, they keep ready all cyclone shelters and inform people to move to the cyclone shelters. All local and private organizations work together during the evacuation period

(2)Shelter Management

DMC: Normally, school management committee manages the shelters. Some union parishads are used as a cyclone shelters. These are managed by union parishad. During the disaster time, CPP also manage the shelters. For the MOHASEN cyclone as level four is going on, all school headmasters are preparing the shelters.



Number of cyclone shelters and Signal information's

(3)Rescue and Search

DMC: Union parishad, CPP, Army, Navy, all local organizations conduct the rescue and search together during the disaster time.

(4)Sufferer Help

DMC: Union parishad, CPP, Army, Navy, all local organizations, NGO's help the sufferers during the disaster time.

(5)Damage Survey

DMC: Union parishad and CPP conduct the damage survey

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

DMC: no budget. But during the emergency time they receive budget from the ministry

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

DMC: yes

- evacuation route

DMC: yes

- shelter capacity

DMC:

- storage of food and water, and so on

DMC: DC orders all businessmen to store the dry foods for the disaster period.

(2)Current Condition of shelters

- Number of shelters : 534 Existing: Plan:277

- Total capacity : 515683 Population ratio
- Solo use: Multi use
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood?

(3) Operation / Management

- Owner: School management committee, union parishad and NGO's
- Operation/ Management
School management committee, union parishad
- Cost burden
No budget for that.

(4) Shelter Management Manual

- Do you have a shelter management manual?
yes

Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it?
DMC: no
CPP:
- Do you have obligation to record activities under state of emergency and report it?
DMC: yes
CPP:

(6) Damage Records

- Do you have obligation to survey disaster damage and report it?
DMC: no but union parishad will conduct the survey and submit to upozila.
Then upozila will report to district and district will report to ministry
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, Union parishad	
	Injured	CPP, Union parishad	
	Evacuees	CPP, Union parishad	
Private Sector	Building	Union parishad	
	Agriculture	Union parishad, agriculture department	
	Fisheries	Union parishad, fisheries department	
	Manufacture	Union parishad	
Public Sector	Road, Bridge	LGED	
	Dike	Union parishad and Bangladesh bridge authority	
	Public Utilities	Water, electric department	
Generalization, Statistics			

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

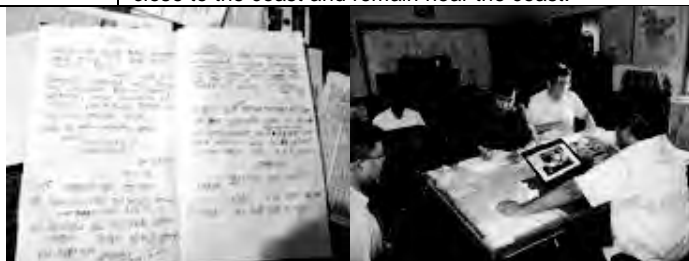
#	1	2	3	4	5
Name	Sidr	Aila	Thunder storm		
Type	Cyclone	Cyclone			
Start Date	13.11.2007	25.05.2009	18.04.2009		
End Date	15.11.2007	25.05.2009	18.04.2009		
Maximum Wind Velocity	240km/hour	90km/hour	No record		
Highest Sea Level	No record	No record	No record		
Total Rainfall	No record	No record	No record		
Dead Missing	7 No record	2 No record	3 No record		
Injured	No record	No record	132		
Total Collapse Houses	40	64	826		
Half Collapse Houses	1499	5924	3874		
Total Collapse Dike	0.35 km	10.995 km	No record		
Half Collapse Dike	0.5 km	25.770	No record		
Inundation Area	120 sq.km	99.85 sq.km	762.3 sq km		
Inundation Depth	No record	No record	No record		
Agriculture Damage	1276.05 acre land	No record	3716.40 acre land		
Fisheries Damage	7850000 taka	38770000 taka	No record		
Economic Losses					
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Mahasen
- Record of activities including time series, if any.

Date	Time	Contents of Records
3.05.2013	12.00pm	Maritime ports of Cox's Bazar have been advised to hoist local cautionary signal no three (3). All fishing boats, Trawlers and Marine vessels over north bay and deep sea advised to come close to the coast and remain near the coast. DC has informed all UNO to take necessary steps to reduce damages. Secretary of fishing boat owners has not received phone call.
6.05.2013	6.30 pm	PIO of Kutubdia Upozila informed DRRO (Cox's Bazar) that due to thunder storm two persons named Babul and Aziz died in Kutubdia upozila at 5.30 pm.
7.05.2013	9.30 am	PIO of Cox'Bazar sadar upozila informed DRRO that on 6.5.2013, due to thunder storm a boy aged 12 (Sakib) and Mr. mostak (45) died in coxbazar sadar upozila.
8.05.3013	10.35am	Signal 3 going on. Total rainfall 54 mm. PIO of Kutubdia informed DRRO that Ruhul Amin, aged 30, died on 6/5/2013 due to thunder storm in Kutubdia. Ms. Nur Fatema aged 28 died due to thunder storm in Teknaf informed by PIO Kutubdia.
9.05.2013	11.45	Signal 3 going on informed by metrological department of cox's bazar. Total rainfall 19 mm. PIO of Chakoria upozila informed DRRO that Mr. Ledu mia, aged 3 died on 8.05.2013 due to heavy rainfall. Total 5 people were injured.
10.05.2013	11.00 am	Signal 3 is going on informed by metrological department of Cox's Bazar
11.05.13	10.30 am	Signal 3 is going on informed by metrological department of Cox's Bazar
12.05.2013	11.30 am	Metrological department of Cox's Bazar informed DRRO that Today at 6.00 am, the cyclone storm MAHASSEN is about 1610 km south south-west from cox's bazaar port. Maximum sustained wind speed within 54 kms of the storm centre is about 62 km/h rising to 88 km/h in gusts/squalls. Sea will remain very rough near the storm centre. Maritime ports of Chittagong, Cox's Bazar and Mongla have been advised to hoist local cautionary signal no three (3). All fishing boats, Trawlers and Marine vessels over north bay and deep sea advised to come close to the coast and remain near the coast.
13.05.2013	8.45 am	Metrological department of Cox's Bazar informed DRRO that Today at 6.00 am, the cyclone storm MAHASSEN is about 1345 km south south-west from cox's bazaar port. Maximum sustained wind speed within 54 kms of the storm centre is about 62 km/h rising to 88 km/h in gusts/squalls. Sea will remain very rough near the storm centre. Maritime ports of Chittagong, Cox's Bazar and Mongla have been advised to hoist local cautionary signal no three (3). All fishing boats, Trawlers and Marine vessels over north bay and deep sea advised to come close to the coast and remain near the coast.



- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:
DMC: They don't have much manpower and budget to conduct training related to disaster.

- ✓ Alert and Warning Stage:
DMC: Most of the existing equipments are out of order. They really need more equipments like speakers, vehicle etc.



- ✓ Disaster Stage
DMC: Mobile network goes down. That's why it is really hard to keep communications with other organisations.

- ✓ Rehabilitation Stage
DMC: More trained manpower is necessary

- How many percent of residents did evacuate to shelters?
10-12%

- What were the causes of deaths? Please select below.
 1. Warning didn't deliver to the residents.
 2. They stayed the houses even after the warning.(Please describe the reason:

)

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	15.11.2007	10.00 am	Received	DDM -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	DRRO -Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	1-3	Notice	Fax		cautionary I warning	Called meeting	
2	Passing	15.11.2007	10.15	Send	DRRO	Upozila Office (uno)	1-3	Notice	Phone	Fax	cautionary verbal warning	Inform Upozila Disaster management committee	
3	Approaching	15.11.2007	12.00 to 4.30	Received	Cox's Bazar metrological department	Upozila Office (uno)	4-7	recommendation	phone	fax	Warning level and to prepare to move for shelter	Called emergency meeting and inform all government agencies and CPP	Not many shelters to accommodate and people didn't rely on warning
4	Passing	15.11.2007	12.00 to 4.30	send	DRRO	Upozila disaster management committee and UNO	4-7	recommendation	phone	Fax	Warning level and to prepare to move for	Inform all union chairmen and CPP	Not much shelter and warning

5	On going	15.11.2 007	6.00 pm	Received	DRRO	Upozila level	8-10	Order	phone	To evacuate and come to cyclone shelters	Annou nced over Mega Phone	equip ments
6	Passing	15.11.2 007	4.00 pm to 5.00 pm	send	Upozila disaster management committee and UNO	Union chairman and union disaster managemen t committee	4-7	Order	Phone and face to face	Warning level and to prepare to move for shelter	Informe d CPP team leaders	Not much shelter and warnin g equip ments

Others

Please describe other issues and problems or important information.

- a. According to the DC of Cox's Bazar, Ukhia and Ramu is most disaster prone Upazila. This two Upazila should consider.

Meeting with Disaster Management Committee at 3 pm on 3.05.2013 at DC office:

DC of Cox's Bazar informed that due to lack of early warning and preparation in the cyclones of 1970,1985,1988,1991,1994,1996,1997 and 1998 lots of people died. In the cyclone of 1991, 138000 people died. But due to early preparation, 2007, 2009 and 2010 cyclones, damages were less.

- b. **Early warning preparation:**
- c. Unless and until, the disaster do not finish, DC office will conduct meeting every day.

Health Department:

- Health complex based, 113 teams are ready to work during the disaster time. Control room number 63738
- All medical facilities will be provided.

Food Department:

They will provide food during the disaster time. 5720 metrication of food are ready in stock.

Water Development Board:

The entire embankment will be saved. They will try to save the embankment.

Storm weather centre:

It is moving to North and North West. It is now close to srilanka.

When the signal will be 4, people have to be ready to face cyclone

When signal is 5, then it will be sure that it will attack Bangladesh.

Inform head of the fishermen about the cyclone.

CPP: Lots of fishermen died during the disaster time. They have already contacted with the fishermen and told them not to go to the deep sea.

Total member CPP 6665

Fire service:

Coxbazar, chokholia, pekua they have fire service department.

DC informed all government officials not to take any government holyday

Animal department:

They request all the agencies to think about the animal's safety.

Red Crescent:

All members of the Red Crescent are ready for the disaster. They have lots of trained persons who will be able to help during the disaster time.

Public Health:

They informed all the stations to be ready for the disaster. After disaster if the water point and tube well get damaged, they will fix those after the disaster.

Fisheries Department:

Dc orders fishermen not to go the sea for fishing.

Local Radio:

They will inform at local radio about the meeting information's.

Businessmen:

DC orders them to store dry food in two days time.

School:

No school headmaster can take holyday. He orders the headmaster

DC:

He will keep ready 534 cyclone shelters in order to use it for the disaster time. One control room will be open today. Contact number is- 64254, code 0342. It will be open for 24 hours. Dry food will be stocked for the disaster time. Upazila level meeting will be held every day unless and until the signal goes down.

Fishing boat owners:

All fishing boats, Trawlers and Marine vessels over north bay and deep sea advised to come close to the coast and remain near the coast.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Foroz Ahmed	UNO	Kutubdia Upazila Office	01716152808
Soubhrat Das	PIO	Kutubdia Upazila Office	01915152495
Samsul Haque	Assistant to PIO	Kutubdia Upazila Office	01710120414
Al. Hazz Golam Rashid Baccu	CPP upozila team leader	CPP, Kutubdia	01714374455
Faridul Alam	Union team Leader and VHF operator	CPP, South Dhurung	01723486971

(3) Responding Date and Hour

22 / 05 / 2013 at 3.30 pm

(4) Responding Place

PIO office, Kutubdia Upazila

(5) Interviewer:

Shariful Islam

Md. Jahurul Islam

Md. Rakibul Islam



Meeting with PIO and UNO

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Kutubdia Upozila Parishad (Office)

(2) Organization Chart

- Could you provide the latest organization chart? if any. No
- Which departments/units are in charge of disaster management in the latest organization chart?

DMC: Upazila Disaster Management Committee

CPP:

(3) Number of Human Resources

Quorum:

Enrollment: 49

(4) Population and Number of Household

Year: 2011

Source: Population Survey

Population:

Male: 66,564 Female: 63,544 Total: 130108

Number of Household: 22,587

(5) Area

215.79 Square kilometer

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		6	
Number of Village		55	
Number of Ward		63	
Number of Polder			
Number of Mouza		8	

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

--	--	--

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of Kutubdia Upozila

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. no

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		

Cyclone		
---------	--	--

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Upazila Disaster management committee G: Union Parishad

B: Disaster Relief & Rehabilitation Office H:

C: Union Disaster Management Committee I:

D: CPP J:

E: School Management Committee K:

F: NGO (Brac, L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	A, B, C, D	C, D, G	E, F, G	C, D	C, D, F	G, D	A, B, C, F, G	A, B, C, F, G	D, C
Union									
Gram									
Para									
Individual									
CPP									

CPP: No

- Residents evacuation drill

DMC: No

CPP:No

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

All budgets are priority based. All budgets are allocated for EGPP, TR, Kabikha programmes. These are mainly for road constructions, Bridge constructions etc.

Activities under State of Emergency

6.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
DMC: Yes
CPP: Yes
- Please describe gaps between the SOD and actual activities? If any.
DMC: In the union level, they don't know how to implement the SOD. It should be in Bangla language.
CPP: Budget are necessary in order to conduct meetings. Volunteer come from long distances on their own. That's why it is really hard to arrange meetings.

(1) Number of Human Resources

- How many staffs are mobilized?
DMC: 1
CPP: 6
- Do you have any regulations/ rules for mobilization of staffs?
DMC: Project based
CPP: Only emergency times

(2) Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time
Others:
DMC: PIO office
CPP: upozila CPP office
- Equipments :

1 Desks	1 File cabinets
0 Copy machine	1 Computers
0 UPS	Internet
TV set	0 Radio receiver



Meeting with CPP and their equipments

6.5 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
DMC: Upozila Cpp and DRRO
CPP:CPP HQ
- Where do you send the warning to? What is communication method?
DMC: Union Chairman
CPP: Union team leaders
- How long does it take usually since receiving till sending information?
DMC: 10 minutes
CPP:5 minutes
- Contents of warning : Which warning signal levels do you use?
11 levels 10 Levels 6 levels Others:
DMC: 10 levels
CPP:10 levels
- Do you have any issues and problems regarding warning contents?
DMC: no
CPP:no
- Do you have any issues and problems regarding communication method?
DMC: No network during the disaster time
CPP: no
- Do you have communication radio in the district/ upazila/ unit?
DMC: no
CPP: yes
- How many percent does mobile phone cover in the area?

DMC: 85%

- How many percent does commercial power supply cover the area?

DMC: 2%

- How many percent do residents have solar power system?

DMC: 50%

- How many percent do information infrastructure below cover the area?

DMC:

- 1) TV Network-

DMC: 1%

- 2) FM Radio-

DMC: 30%

- 3) AM Radio-

DMC: 20%

- How many percent do residents have mobile phones?

DMC: 80%

- What's the number of Mosque?

DMC: 45

- How Is the percentage of Mosque have microphone?

DMC:60%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

DMC: DC of Coxbazar

CPP: CPP HQ

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

DMC: When it is signal 7, CPP and union disaster management committee start the process of evacuating people.

CPP: no

(2)Shelter Management

DMC: School management committee manages the shelter. But during the disaster time, CPP, local government manages the cyclone shelter. During this MAHASAN when people moved to cyclone shelter, police were observed outside the shelter.

CPP: yes

(3)Rescue and Search

DMC: CPP, union disaster management committee, Upazila disaster management committee jointly conduct the rescue and search.

CPP: yes

(4)Sufferer Help

DMC: NGO's, Local government, CPP help the sufferer. But there is no hospital in Kutubdia. A hospital is necessary for the treatment of the injured people. Moreover a rescue boat also necessary for the injured people.

CPP: yes

(5)Damage Survey

DMC: CPP and union disaster management committee jointly conduct the damage survey. Then union parishad send the survey report to Upazila. Upazila send the

- Solo use: Multi use 65
- Other purposes of multiuse shelter: union parishad and school
- Do you think the shelters have enough height for tidal wave/ flood? no

(2)Operation / Management

- Owner: School management committee, union parishad
- Operation/ Management
School management committee, union parishad
- Cost burden
School management committee, union parishad

(3)Shelter Management Manual

- Do you have a shelter management manual?

yes

Records

(4) Record of Activities

- Do you have obligation to record normal time activities and report it?
DMC: yes
CPP: yes
- Do you have obligation to record activities under state of emergency and report it?
DMC: yes
CPP: yes

(5) Damage Records

- Do you have obligation to survey disaster damage and report it?
DMC: yes
CPP: yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Union Parishad, CPP	
	Injured	Union Parishad, CPP	
	Evacuees	Union Parishad, CPP	
Private Sector	Building	Union Parishad, LGED	
	Agriculture	Agricultural department	
	Fisheries	Fisheries department	
	Manufacture	Union Parishad	
Public Sector	Road, Bridge	RHD and BBA	
	Dike	Union Parishad	
	Public Utilities	PDB, WDB	
Generalization, Statistics		Union Parishad	

8. Past Disaster Records

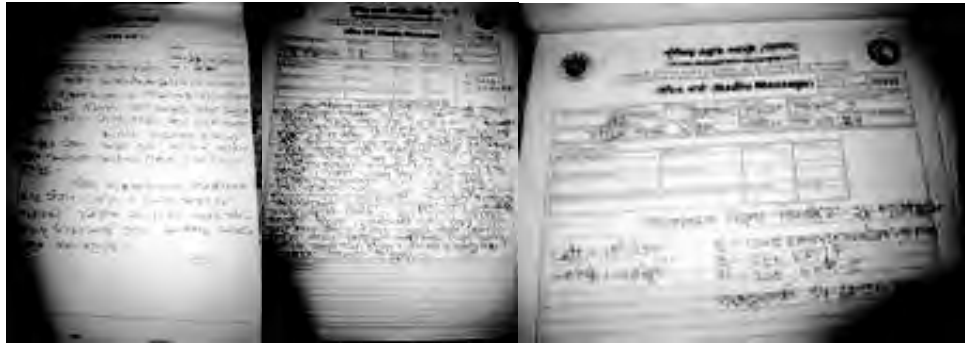
- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidr	Aila	Bijli	Mahasen	
Type	Cyclone	Cyclone	Cyclone	Cyclone	Cyclone
Start Date	13.11.2007	25.05.2009	18.04.2009	3.5.2013	02.08.2011
End Date	15.11.2007	25.05.2009		16.05.2013	14.08.2011
Maximum Wind Velocity	140km/hour	80km/hour		65 km/hour	
Highest Sea Level	7 feet	4 feet		2 feet	
Total Rainfall					
Dead Missing	7		1		
Injured	80	1365	98		75
Total Collapse Houses	40	05		430	750
Half Collapse Houses	387	1165	362	2140	3500
Total Collapse Dike		5.5 km	1348	8 km	18 km
Half Collapse Dike	0.5km	6.5 km		10.5 km	15 km
Inundation Area	3 sq. km				31 sq km
Inundation Depth	7 feet				
Agriculture Damage	22.80 acre land		6000000 taka	700 acre	7986000 taka
Fisheries Damage		3840000 taka			3500000 taka
Economic Losses					
Forest	881640 taka				

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Mahasen
- Record of activities including time series, if any.



All Cyclone mahasen's record is collected

- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:
DMC: Radio system is necessary.
CPP: few budgets are necessary to arrange meetings
- ✓ Alert and Warning Stage:
DMC: More early warning equipments are necessary. Megaphone, loudspeakers etc
CPP: Rain-coat, torch, megaphones are necessary
- ✓ Disaster Stage
DMC: All cyclone shelters were full. 70% people were waiting outside of the cyclone shelters. 8 of the cyclone shelters are out of order. More than 20000 people left from Kutubdia as they were not secured to stay in Kutubdia.
CPP: Connecting road to the cyclone shelters is necessary.

✓ Rehabilitation Stage

DMC:

CPP:

• How many percent of residents did evacuate to shelters?

90%

• What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason:

)

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email		
1	Approaching	11.05.2013	10am	receive	CPP HQ	PIO, Union team leader	3	Notice	VHF, Phone		Signal 3	
2	Approaching	11.05.2013	12.20 pm	receive	CPP HQ	PIO, Union team leader	3	Notice	Phone		Inform all fishing boat owners about the Mahasen	Meeting called by UNO
3	Ongoing	11.05.2013	5.00pm	receive	CPP HQ	CPP, PIO, Union team leader	3	Notice	Phone		Signal 3	Inform to UNO
4	Ongoing	12.05.2013	10.00am	receive	CPP HQ	CPP, PIO, Union team leader	3	Notice	VHF, Phone		Signal 3	Called meeting at 4.00 pm
5	Ongoing	13.05.2013	2.00pm	receive	CPP HQ	PIO, Union team leader	4	Notice, order	VHF, Phone		SWC bull.8	Informed all cpp union and unit team leaders
6	Passing	13.05.2013	2.30 pm	send	UNO	Union chairman	4	order	phone		Miking through megaphone and mosque mike	
7	Ongoing	14.05.2013	8 am to 10 pm	receive	CPP HQ	PIO, Union team leader	4	Notice, order	VHF, Phone		SWC bull.14,15,16,17,18,19,20	
8	Passing	14.05.2013	am to 10 pm	send	PIO	Union chairman	4	order	phone		Miking through megaphone and mosque mike	
9	Ongoing	15.05.2013	8.15 am	receive	CPP HQ	PIO, Union team leader	4	Notice, order	VHF, Phone		SWC bull.21,22	
10	Ongoing	15.05.2013	11.00 am to	receive	CPP HQ	PIO, Union team leader	7	Notice, order	VHF, Phone		SWC bull.24,25,26,27,28	Order people to move to shelter

10. Others

Please describe other issues and problems or important information.

- Few of the cyclone shelters in Kutubdia are out of order.
- There is no JICA constructed cyclone shelters in Kutubdia
- CPP needs torch, raincoats, megaphone etc.
- One rescue boat is necessary in order to rescue the injured people
- Signal should be more accurate



Upozila Parishad

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Azamgir	Chairman	Koiyarbill Union	01714374722
Md. Faridul Alam	Secretary	Koiyarbill Union	01719291814
Mir. Kashem	Member	Koiyarbill Union	01829645316
Md. Amanullah	Member	Koiyarbill Union	01814701288
Rousanara	Member	Koiyarbill Union	01815612694

(3) Responding Date and Hour

23 / 05 / 2013

(4) Responding Place

(5) Interviewer:

Shariful Islam

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Koiyarbill Union



(2) Organization Chart

- Could you provide the latest organization chart? if any. No
- Which departments/units are in charge of disaster management in the latest organization chart?

DMC: Union disaster management committee

(3) Number of Human Resources

Quorum: 12

Enrollment: 36

(4) Population and Number of Household

Year: 2011 Source: Population census

Population:

Male: 7992

Female: 7136

Total: 19,128

Number of Household: 1952

(5) Area

1.585 acre

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Ward			9
Number of Para			27
Number of Mouza			1

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2013,2011,2009,2009,1991	During the mahasen time, lots of trees were broken down

--	--	--

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Upozila Disaster management committee G: NGO

B: Disaster Relief & Rehabilitation Office H:

C: Union Disaster Management Committee I:

D: Union Parishad J:

E: CPP K:

F: School Management Committee L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C, D, E	C, D, E	E, F	C, E	C, E, A	D, E	A, D, G	A, D, G	E, C
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: Part-time:

DMC: 18

(2) Office and Equipments

Sole use office room

Equipments : 5 Desks 2 File cabinets

 Copy machine 2 Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?
DMC: No

- Planning/Reviewing/Updating disaster management plan
DMC: No

- Staff training
DMC: No

- Emergency drill at district/ Upazila/ Union level
DMC: Once a year

- Equipment maintenance
DMC: No equipments are available
CPP:

- Inter organizational/Stakeholder meeting
DMC: 6 times in a year, but during the disaster time every week they conduct meeting
CPP:

- Drawing/Reviewing/Updating hazard map
DMC: yes
CPP:

- Residents awareness campaign
DMC: Once a year

CPP:

- Residents evacuation drill

DMC: once a year

CPP:

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	21,51,000	21,20,000	25,6200	25,3000	26,05000	25,90000
Disaster Management	20,000	20,000	40000	40000	40,000	40000
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

No budget is allocated for disaster management and early warning



- Where do you send the warning to? What is communication method?
DMC: Ward Members
CPP: Unit team leaders

- How long does it take usually since receiving till sending information?
DMC: 15 minutes
CPP: 10 to 15 minutes

- Contents of warning : Which warning signal levels do you use?
11 levels 10 Levels 6 levels Others:
DMC: 10 levels
CPP: 10 levels

- Do you have any issues and problems regarding warning contents?
DMC: No
CPP: No

- Do you have any issues and problems regarding communication method?
DMC: During the disaster time, mobile network create problems

- Do you have communication radio in the district/ upazila/ unit?
DMC: No

- How many percent does mobile phone cover in the area?
DMC:95%

- How many percent does commercial power supply cover the area?
DMC: 0%

- How many percent do residents have solar power system?
DMC: 15%

- How many percent do information infrastructure below cover the area?

DMC:

CPP:

- 1) TV Network-

DMC: 1%

- 2) FM Radio-

DMC: 40%

- 3) AM Radio-

DMC: 15%

- How many percent do residents have mobile phones?

DMC: 80%

- What's the number of Mosque?

DMC: 20

- How Is the percentage of Mosque have microphone?

DMC: 65%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

DMC: UNO

CPP: UNO

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance: There is no specific guidance. During the disaster time, Upper authority orders and gives the guidance to follow for the evacuation.

(2)Shelter Management: During the disaster time CPP and union parishad jointly manage the cyclone shelters.

(3)Rescue and Search: During the disaster time CPP conduct the rescue and search procedure.

(4)Sufferer Help

Government and different NGO's provide food and medical facilities for the sufferer.

(5)Damage Survey

Union parishad and CPP jointly conduct the damage survey.

(6)Other

DMC:

CPP:

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

DMC: 0

CPP:0

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

➤ zoning for each evacuation shelter

DMC: Yes

CPP: Yes

- evacuation route
DMC: Yes
CPP: Yes
- shelter capacity
DMC: Comparing the population, the shelter capacity is only 10%. Few of the cyclone shelters is out of order
- storage of food and water, and so on
DMC: Food is supplied to the cyclone shelter and union parishad.

(2)Current Condition of shelters

- Number of shelters : Existing: 17 Plan:
- Total capacity : 7650 Population ratio: 26.66
- Solo use: Multi use
- Other purposes of multiuse shelter: School and union parishad
- Do you think the shelters have enough height for tidal wave/ flood? Not all

(3)Operation / Management

- Owner: School management committee
- Operation/ Management: school management committee
- Cost burden: No budget is allocated

(4)Shelter Management Manual

- Do you have a shelter management manual? No

8. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
DMC: No
CPP: No
- Do you have obligation to record activities under state of emergency and report it?
DMC: Yes
CPP: Yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
DMC: Yes
CPP: Yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Union parishad, CPP	
	Injured	Union parishad, CPP	
	Evacuees	Union parishad, CPP	
Private Sector	Building	Union parishad, CPP	
	Agriculture	Union parishad, CPP	
	Fisheries	Union parishad, CPP	
	Manufacture		
Public Sector	Road, Bridge	LGA	
	Dike	LGA	
	Public Utilities		
Generalization, Statistics			

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidr	Aila			
Type	Cyclone	Cyclone			
Start Date	13.11.2007	25.05.2009			
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity	210km/hour				
Highest Sea Level					
Total Rainfall					
Dead Missing	12				
Injured	23				
Total Collapse Houses	120				
Half Collapse Houses	540				
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage	100%				
Fisheries Damage	100%				
Economic Losses					
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Mahasen
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:
DMC: There is no budget allocated for the Disaster management and early warning system
CPP: To conduct meeting and traveling , no budget is allocated
 - ✓ Alert and Warning Stage:
DMC: No early warning equipments with the DMC
CPP: Most of the early warning equipments are out of order
 - ✓ Disaster Stage
DMC: all cyclone shelters are constructed in the year of 1993 to 1994. These cyclone shelters need to be reconstructed.
CPP: More early warning equipments are necessary
 - ✓ Rehabilitation Stage
DMC: Lack of vehicle and medical facilities
- How many percent of residents did evacuate to shelters?
90%

- What were the causes of deaths? Please select below.
 1. Warning didn't deliver to the residents.
 2. They stayed the houses even after the warning.(Please describe the reason:

)

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issu
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order					
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

11. Others

Please describe other issues and problems or important information.

- Most of the cyclone shelters are constructed 20 years ago.
- Few of the cyclone shelters are out of orders.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2)Respondents

Name	Title	Organization	Telephone No.
Akhter Hossain	Chairman	Lemshikhali Union	01711709711
Nur md. Tariqul Islam	Secretary	Lemshikhali Union	01818575188
Safia Akhter	Member	Lemshikhali Union	01831040918
Sazed ollah	Member	Lemshikhali Union	01816002778
Md. Habibullah	CPP team leader	Lemshikhali Union	01846540133
Abdul Karim	CPP	Lemshikhali Union	01823408018

(3)Responding Date and Hour

26 / 05 / 2013

(4)Responding Place

Lemshikhali union parishad

(5)Interviewer:

Shariful Islam



2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

(2)Organization Chart

- Could you provide the latest organization chart? if any. No
- Which departments/units are in charge of disaster management in the latest organization chart?

DMC: Union Disaster Management Commiittee

(3)Number of Human Resources

Quorum: 7

Enrollment: 21

(4)Population and Number of Household

Year: 2011 Source: population census

Population:

Male: Female: Total: 42,700

Number of Household:

(5)Area

3997 acre

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			18
Number of Para			35
Number of Ward			9
Length of Embankment			12 km

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

Cyclone	1991,2007,2009,2011,2013	
---------	--------------------------	--

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Upozila Disaster management committee G: NGO(UNDP, WFP)

B: Disaster Relief & Rehabilitation Office H:

C: Union Disaster Management Committee I:

D: Union Parishad

E: CPP

F: School Management Committee

L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C, D, E	C, D, E	E, F	C, E	C, E, A	D, E	A, D, G	A, D, G	E, C
Gram									
Para									
Individual									
CPP									

- CPP: Once a year
- Residents evacuation drill
- DMC: Once a year
- CPP: Once a year

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	.		2228800		2450200	
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

No budget is allocated for disaster management and early warning system. Current budgets are mainly priority based.

DMC: ward member

CPP: unit team leader

- How long does it take usually since receiving till sending information?

DMC: 5 minutes

CPP: 5 minutes

- Contents of warning : Which warning signal levels do you use?

11 levels

10 Levels

6 levels

Others:

DMC: 10 level

CPP: 10 level

- Do you have any issues and problems regarding warning contents?

DMC: No

CPP:No

- Do you have any issues and problems regarding communication method?

DMC: During the disaster time, the phone network is completely down

CPP: During the disaster time, the phone network is completely down

- Do you have communication radio in the district/ upazila/ unit?

DMC: No

CPP: No

- How many percent does mobile phone cover in the area?

DMC: 95%

- How many percent does commercial power supply cover the area?

DMC: 0%

- How many percent do residents have solar power system?

DMC: 20%

- How many percent do information infrastructure below cover the area?

1) TV Network-

DMC: 1%

2) FM Radio-
DMC: 20%

3) AM Radio-
DMC: 10%

- How many percent do residents have mobile phones?
DMC: 80%
- What's the number of Mosque?
DMC: 45
- How Is the percentage of Mosque have microphone?
DMC: 50%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
DMC: Upozila Disaster management committee/ UNO
CPP:

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance
DMC: Follow SOD

(2)Shelter Management

DMC: School Management committee manages the shelter. During the disaster time principle close the school and keep the school ready for the community people. During the disaster time CPP and union parishad jointly manage

CPP: During the disaster time, CPP manage the cyclone shelter.

(3)Rescue and Search

DMC: They just follow Union the disaster management committees order. During the disaster time, DMC and CPP jointly conduct the rescue and search.

(4)Sufferer Help

DMC: All local government agencies, NGO's and non- governmental organizations jointly help the sufferer.

(5)Damage Survey

DMC: CPP and union parishad conduct the damage survey.

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget: 0 Expenditure:

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

DMC: yes

CPP:yes

- evacuation route

DMC:yes

CPP:yes

- shelter capacity

DMC: 10%

CPP: 10%

- storage of food and water, and so on
DMC: union parishad and in school
CPP:

(2)Current Condition of shelters

- Number of shelters : Existing: 14 Plan:
- Total capacity : 5950 Population ratio: 13.9
- Solo use: Multi use : 14
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood?

(3)Operation / Management

- Owner: School management committee and union parishad
- Operation/ Management: School management committee but no budget is allocated for this
- Cost burden: school management committe

(4)Shelter Management Manual

- Do you have a shelter management manual?



Records

(5) Record of Activities

- Do you have obligation to record normal time activities and report it?
DMC: Only during the disaster time
- Do you have obligation to record activities under state of emergency and report it?
DMC: yes
CPP: yes

(6) Damage Records

- Do you have obligation to survey disaster damage and report it?
DMC: yes
CPP: yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing		
	Injured		
	Evacuees		
Private Sector	Building		
	Agriculture		
	Fisheries		
	Manufacture		
Public Sector	Road, Bridge		
	Dike		
	Public Utilities		
Generalization, Statistics			

8. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidr	Aila			
Type	Cyclone	Cyclone			
Start Date	13.11.2007	25.05.2009			
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity	190 km/hour				
Highest Sea Level					
Total Rainfall					
Dead Missing	4				
Injured	65				
Total Collapse Houses	390				
Half Collapse Houses	1300				
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage	50%				
Fisheries Damage	45%				
Economic Losses					
Others					

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems: About cyclone Mahasen

✓ Normal Times:

DMC: most of the members are not trained. Training is necessary.

CPP: Budgets are necessary for training and meeting purposes.

✓ Alert and Warning Stage:

DMC: mobile network is really bad

CPP: most of the early warning equipments are out of order.

✓ Disaster Stage

DMC: More cyclone shelters are necessary

CPP: More cyclone shelters are necessary

✓ Rehabilitation Stage

DMC:

CPP:

- How many percent of residents did evacuate to shelters?
80% people wanted to move to shelters. But only 15% were able to accommodate to the shelter. Rest of the people actually took shelter to safe place.
- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.
 2. They stayed the houses even after the warning.
- (Please describe the reason:

)

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issu	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

10. Others

Please describe other issues and problems or important information.

- Embankment is necessary.
- 4 more cyclone shelter is necessary
- Connecting road to cyclone shelter
- Killa is necessary in order to keep animals.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Md. Anawarul Naser	UNO	Moheshkhali Upazila	017323592321
Biswanath Majumder	PIO	Moheshkhali Upazila	01819976360
Md. Mamunor Rashid	AD	CPP	01818205969
Abu Taher	Assistant to the PIO	Moheshkhali Upazila	01823281979
Md. Mofiz uddin	Sub-assistant engineer EGPP	Moheshkhali Upazila	01715942691

(3) Responding Date and Hour

19 / 05 / 2013

(4) Responding Place

Moheshkhali Upazila Parishad

(5) Interviewer:

Shariful Islam

Md. Rakibul Islam

Md. Jahurul Islam



2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Moheshkhali Upazila

(2) Organization Chart

- Could you provide the latest organization chart? if any. No chart is available
- Which departments/units are in charge of disaster management in the latest

organization chart?

DMC: Disaster Management Committee

CPP: Upazila CPP Committee

(3)Number of Human Resources

Quorum: 17

Enrollment: 49

(4)Population and Number of Household

Year: 2011

Source: Population Census

Population:

Male: 172193

Female:161626

Total:333819

Number of Household:58,177

(5)Area

362.18 Square kilometer

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		8union and 1 Pourashava	
Number of Mouza		25	
Number of Village		151	
Number of Ward		72 & 9 wards for pourasava	

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

(8)Map



- Could you provide map of District/ Upazila/ Union, if any? yes

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations. No

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone		

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?
- A: Upazila Disaster management committee G: NGO(RIC, Coast Task, Muslim Aid, Red Crescent)
 B: Disaster Relief & Rehabilitation Office H:
 C: Union disaster management committee I:
 D: CPP J:
 E: School Management Committee K:
 F: Union Parishad L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	C,D	C,D	E,F,G	C,D	D,F,G	D,F	A,F,G	A,F,G	D,C,A
Union									
Gram									
Para									
Individual									
CPP									

CPP: No

- Residents awareness campaign

DMC: Once a year

CPP: During the disaster time only

- Residents evacuation drill

DMC: Once a year

CPP: No

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

All budgets are priority based. They don't have any budgets for early warning or disaster management.



6.5 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
DMC: DRRO, Cox's Bazar District
CPP: CPP, Head office, Dhaka
- Where do you send the warning to? What is communication method?
DMC: All Union Chairmen
CPP: All union CPP team leaders
- How long does it take usually since receiving till sending information?
DMC: 10 to 15 minutes
CPP: 5 to 10 minutes
- Contents of warning : Which warning signal levels do you use?
11 levels 10 Levels 6 levels Others:
DMC: 10 Levels
CPP: 10 Levels
- Do you have any issues and problems regarding warning contents?
DMC: No
CPP: No
- Do you have any issues and problems regarding communication method?
DMC: During the disaster time, it is really hard to get the mobile network.
CPP: No
- Do you have communication radio in the district/ upazila/ unit?
DMC: No
CPP: No

- How many percent does mobile phone cover in the area?
DMC: 90%
CPP: 90%

- How many percent does commercial power supply cover the area?
DMC: 40%
CPP: 40%

- How many percent do residents have solar power system?
DMC: 5%
CPP: 4%

- How many percent do information infrastructure below cover the area?

1) TV Network-
DMC: 20%

2) FM Radio-
DMC: 25%

3) AM Radio-
DMC: 5%

- How many percent do residents have mobile phones?
DMC: 60%
CPP: 65%

- What's the number of Mosque?
DMC: 435
CPP: No idea

- How is the percentage of Mosque having microphone?
DMC: 50%

CPP: No idea

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

DMC: Ministry of disaster management - DC-UNO- Union Chairman-Ward Chairman

CPP: CPP head office, Dhaka to Upozila CPP office

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

DMC: When it is signal 7, CPP and union disaster management committee start the process of evacuating people.

CPP: no

(2)Shelter Management

DMC: School management committee manages the shelter. But during the disaster time, CPP, local government manages the cyclone shelter. During this MAHASAN when people moved to cyclone shelter, police were observed outside the shelter.

CPP: yes

(3)Rescue and Search

DMC: CPP, union disaster management committee, Upazila disaster management committee jointly conduct the rescue and search.

CPP: yes

(4)Sufferer Help

DMC: NGO's, Local government, CPP help the sufferer. But there is no hospital in Moheshkhali. A hospital is necessary for the treatment of the injured people.

CPP: yes

(5)Damage Survey

DMC: CPP and union disaster management committee jointly conduct the damage

survey. Then union parishad send the survey report to Upazila. Upazila send the report to district.

CPP: CPP also send the survey report to head office.

(6)Other

DMC:

CPP:

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

Only after the disaster DMC gets budget.

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

➤ zoning for each evacuation shelter

DMC: yes. When people move to shelter, they move to their own ward's shelter. But in this Mahasen, people moved to other places as well, as there were lacks of capacity to accommodate the people in the shelters.

➤ evacuation route

DMC: Evacuation route to the shelter need to reconstruct.

➤ shelter capacity

DMC: Considering the population, shelter capacity is least.

➤ storage of food and water, and so on

DMC: During the disaster time dry food is provided to the shelters by the DC and UNO.

(2)Current Condition of shelters

- Number of shelters : Existing: 84 Plan:2
- Total capacity : 31120 Population ratio

8. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
DMC: no
CPP: yes
- Do you have obligation to record activities under state of emergency and report it?
DMC: yes
CPP: yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
DMC: union parishad will report to upozila. Upozila will report to district level.
CPP:
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Union Parishad, CPP	
	Injured	Union Parishad, CPP	
	Evacuees	Union Parishad, CPP	
Private Sector	Building	Union Parishad, LGED	
	Agriculture	Agricultural department	
	Fisheries	Fisheries department	
	Manufacture	Union Parishad	
Public Sector	Road, Bridge	RHD and BBA	
	Dike	Union Parishad	
	Public Utilities	PDB, WDB	
Generalization, Statistics		Union Parishad	

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidr	Aila	Bizli		
Type	Cyclone	Cyclone	Cyclone		
Start Date	13.11.2007	25.05.2009	18.04.2009		
End Date	15.11.2007	25.05.2009	18.04.2009		
Maximum Wind Velocity	120 km/hour	75km/hour			
Highest Sea Level	5 feet	3 feet			
Total Rainfall					
Dead Missing	no				
Injured	54	1537	20		
Total Collapse Houses	no	50	25		
Half Collapse Houses	16	1487	113		
Total Collapse Dike		5.50 km	4		
Half Collapse Dike		4.50 km			
Inundation Area	4 sq km	38.85 sq km	388.5 sq km		
Inundation Depth					
Agriculture Damage	10.24 acre land	21000000 taka	2229.50 acre land		
Fisheries Damage	5000000 taka	24500000 taka			
Economic Losses					
Forest Damage	758360 taka	1378500 taka			

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Mahasen
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:
DMC: More manpower is necessary

- ✓ Alert and Warning Stage:

CPP: Most of the equipments are not working. Raincoat and torch is necessary

- ✓ Disaster Stage
DMC: It didn't attack
CPP:

- ✓ Rehabilitation Stage
DMC:
CPP:

- How many percent of residents did evacuate to shelters?

90%. As moheshkhali is an island, around 15000 people actually moved to cox's Bazar district 4 days before the cyclone

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.
2. They stayed the houses even after the warning.

(Please describe the reason:

Not much

damage. Nobody died.)



Cyclone Mahasen

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email		
1	Approaching	11.05.2013	10am	receive	CPP HQ	PIO, Union team leader	3	Notice	VHF,Phone		Signal 3	
2	Approaching	11.05.2013	12.20 pm	receive	CPP HQ	PIO, Union team leader	3	Notice	Phone		Inform all fishing boat owners about the Mahasen	Meeting called by UNO
3	Ongoing	11.05.2013	5.00pm	receive	CPP HQ	CPP, PIO, Union team leader	3	Notice	Phone		Signal 3	Inform to UNO
4	Ongoing	12.05.2013	10.00am	receive	CPP HQ	CPP, PIO, Union team leader	3	Notice	VHF, Phone		Signal 3	Called meeting at 4.00 pm
5	Ongoing	13.05.2013	2.00pm	receive	CPP HQ	PIO, Union team leader	4	Notice, order	VHF, Phone		SWC bull.8	Informed all cpp union and unit team leaders
6	Passing	13.05.2013	2.30 pm	send	UNO	Union chairman	4	order	phone		Miking through megaphone and mosque mike	
7	Ongoing	14.05.2013	8 am to 10 pm	receive	CPP HQ	PIO, Union team leader	4	Notice, order	VHF, Phone		SWC bull.14,15.16.17.18.19.20	
8	Passing	14.05.2013	8 am to 10 pm	send	PIO	Union chairman	4	order	phone		Miking through megaphone and mosque mike	
9	Ongoing	15.05.2013	8.15 am	receive	CPP HQ	PIO, Union team leader	4	Notice, order	VHF, Phone		SWC bull.21,22	
10	Ongoing	15.05.2013	11.00 am to	receive	CPP HQ	PIO, Union team leader	7	Notice, order	VHF, Phone		SWC bull.24,25,26,27,28	Order people to move to shelter

11. Others

Please describe other issues and problems or important information.

- UNO of Moheshkhali told that in five upozilas namely Moheshkhali, Kutubdia, Sandip (Chittagong), Hatia and Monpura upozila rescue boat is necessary.
- All these upozilas are Island
- One rescue boat costs 15,000 dollars
- In moheshkhali upozila 2 isolated places were found



Most of the people in Moheshkhali are fishermen. Road conditions of Moheshkhali is really poor

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
M. Shafiu Alam	Chairman	Kutubjum Union	01711586084
SM Golam Kader	Secretary	Kutubjum Union	01818477729
Md. Alauddin Saber	Member	Kutubjum Union	

(3) Responding Date and Hour

25 / 05 / 2013 at 12 pm

(4) Responding Place

Kutubjum Union Parishad

(5) Interviewer:

Shariful Islam

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Kutubjum Union parishad



(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

DMC: Union Disaster management committee

CPP: Kutubjum CPP union team

(3)Number of Human Resources

Quorum: 9

Enrollment: 27

(4)Population and Number of Household

Year: 2011 Source: Population Census

Population:

Male:15766

Female: 14871

Total: 30637

Number of Household:

(5)Area

40 Square kilometer

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			13
Number of Ward			9
Number of Polder			

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?
- A: Upozila Disaster management committee G: NGO (Red-crescent, Brac)
- B: Disaster Relief & Rehabilitation Office H:
- C: Union disaster management committee I:
- D: CPP J:
- E: Union Parishad K:
- F: School Management committee L:
- (3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C,D	C,D	E,F	A,D,E,C	C,D,E,G	D,E	A,E,D,G	A,E,D,G	D
Gram									
Para									
Individual									
CPP									



- Residents awareness campaign
DMC: Once a year. But during the disaster time , union disaster management committee conduct the campaign on a regular basis.
CPP: No



- Residents evacuation drill
DMC: Once a year
CPP: No budget for this

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total			+			
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.
Budgets are priority and project based. Mainly for road, bridge and embankment construction.

DMC: Ward Members

CPP: Unit Team Leaders

- How long does it take usually since receiving till sending information?

DMC: 10 minutes to 15 minutes

CPP: 10 minutes to 15 minutes

- Contents of warning : Which warning signal levels do you use?

11 levels

10 Levels

6 levels

Others:

DMC: Level 10

CPP: Level 10

- Do you have any issues and problems regarding warning contents?

DMC: No

CPP: No

- Do you have any issues and problems regarding communication method?

DMC: No

CPP:No

- Do you have communication radio in the district/ upazila/ unit?

DMC: No

CPP: No

- How many percent does mobile phone cover in the area?

DMC: 87%

- How many percent does Mosque Microphone cover in the area?

DMC: 45%

- How many percent does commercial power supply cover the area?

DMC: 45%

- How many percent do residents have solar power system?

DMC: 20%

- How many percent do information infrastructure below cover the area?

1) TV Network-

DMC: 5%

2) FM Radio-

DMC: 5%

3) AM Radio-

DMC: 2%

- How many percent do residents have mobile phones?

DMC: 95%

- What's the number of Mosque?

DMC: 33

- How Is the percentage of Mosque have microphone?

DMC: 50%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

DMC: PIO, UNO

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

DMC: Follow the upper agencies order

(2)Shelter Management

DMC: School management committee and union parishad manage the shelters



(3)Rescue and Search

DMC: CPP and union parishad conduct the rescue and search

(4)Sufferer Help

DMC: All local government and non local government help the sufferer

(5)Damage Survey

DMC: Union parishad and CPP conduct the damage survey

(6)Other

DMC:

CPP:

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

DMC:0

CPP:0

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter
 - DMC:yes
 - CPP:yes
 - evacuation route
 - DMC: yes
 - CPP: yes
 - shelter capacity
 - DMC: Its not enough considering the population

 - storage of food and water, and so on
 - DMC: union parishad and cyclone shelter

(2)Current Condition of shelters

- Number of shelters : Existing: 11 Plan:
- Total capacity : 2500 Population ratio: 8.16
- Solo use: Multi use
- Other purposes of multiuse shelter: School and union parishad
- Do you think the shelters have enough height for tidal wave/ flood? 75%

(3)Operation / Management

- Owner: School management committee

- Operation/ Management: school management committee and union parishad

- Cost burden: No budget is allocated

(4)Shelter Management Manual

- Do you have a shelter management manual? No

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
DMC: Yes
CPP: yes
- Do you have obligation to record activities under state of emergency and report it?
DMC: yes
CPP: yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
DMC: yes
CPP: yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP, CPP	
	Injured	UP, CPP	
	Evacuees	UP, CPP	
Private Sector	Building	LGED	
	Agriculture	Agricultural department	
	Fisheries	Fisheries department	
	Manufacture		
Public Sector	Road, Bridge	LGED	
	Dike	LGED	
	Public Utilities		
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

NO RECORD WAS FOUND

#	1	2	3	4	5
Name	Sidr	Aila			
Type	Cyclone	Cyclone			
Start Date	13.11.2007	25.05.2009			
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing	3				
Injured	23				
Total Collapse Houses	123				
Half Collapse Houses	438				
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

)

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?

If you have any issues and problems related to each stage of disaster Issues and Problems: About cyclone Mahasen

- ✓ Normal Times:
DMC: most of the members are not trained. Training is necessary.
CPP: Budgets are necessary for training and meeting purposes.
- ✓ Alert and Warning Stage:
DMC: mobile network is really bad
CPP: most of the early warning equipments are out of order.
- ✓ Disaster Stage
DMC: More cyclone shelters are necessary
CPP: More cyclone shelters are necessary
- ✓ Rehabilitation Stage
DMC: Government and non government organization work together

- How many percent of residents did evacuate to shelters?
85% people wanted to move to shelters. But only 20% were able to accommodate to the shelter. Rest of the people actually took shelter to safe place.

- What were the causes of deaths? Please select below.
 1. Warning didn't deliver to the residents.
 2. They stayed the houses even after the warning.(Please describe the reason:

)

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues	
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

12. Others

Please describe other issues and problems or important information.

- CPP and DMC have lack of early warning equipments
- Speed boat is necessary
- One isolated area were found called Sonadia

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper

Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Anamul Haque chowduray	Chairman	Matarbaria union parishad	01713620023
Ahmed Hossain	Secretary	Matarbaria union parishad	01757655366
Ansarul Karim	Member(ward 2)	Matarbaria union parishad	01733179220
Hazi Kasem Ali	Local member	Matarbaria union parishad	
Chokurtaz Begum	Member	Matarbaria union parishad	01821819940

(3) Responding Date and Hour

21 / 05 / 2013

(4) Responding Place

(5) Interviewer:

Shariful Islam

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Matarbari Union Parishad



(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

DMC: Union disaster management committee

(3)Number of Human Resources

Quorum: Enrollment: 25

(4)Population and Number of Household

Year: 2011 Source: population Census

Population:

Male: Female: Total:60,000

Number of Household: 5790

(5)Area

12 sq km Square kilometer/Hectare

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			22
Number of Ward			9
Number of Polder			12 km

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		
Fisheries		
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



- Residents awareness campaign
DMC: No
CPP: No
- Residents evacuation drill
DMC: No
CPP: No



6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total	3119500	3102000	3220000	3202000		
Disaster Management	0	0	0	0	0	0
Early Warning	0	0	0	0	0	0

- Please describe the allocation policy and priority of the budget. If any.

No Budget is allocated for disaster management and early warning equipments.

- Where do you send the warning to? What is communication method?
DMC: Ward member
CPP: unit team leader

- How long does it take usually since receiving till sending information?
DMC: 10 minutes
CPP:20 minutes

- Contents of warning : Which warning signal levels do you use?
11 levels 10 Levels 6 levels Others:
DMC: 10 levels
CPP:10 levels

- Do you have any issues and problems regarding warning contents?
DMC: No
CPP: No

- Do you have any issues and problems regarding communication method?
DMC: During the disaster time, mobile network goes down
CPP: During the disaster time, mobile network goes down

- Do you have communication radio in the district/ upazila/ unit?
DMC:No
CPP:No

- How many percent does mobile phone cover in the area?
DMC:90%

- How many percent does Mosque Microphone cover in the area?
DMC: 55%

- How many percent does commercial power supply cover the area?
DMC: 40%

- How many percent do residents have solar power system?

DMC: 4%

- How many percent do information infrastructure below cover the area?

DMC:

CPP:

- 1) TV Network-

DMC: 25%

- 2) FM Radio-

DMC:32%

- 3) AM Radio-

DMC: 5%

- How many percent do residents have mobile phones?

DMC:95%

- What's the number of Mosque?

DMC: 55

- How Is the percentage of Mosque have microphone?

DMC: 45%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

DMC: PIO, UNO

CPP: UNO

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

DMC: They just follow the orders of PIO and UNO

(2)Shelter Management

DMC: Normally shelters are used for school purposes. But during the disaster time CPP and local government use manage the shelter jointly



(3)Rescue and Search

DMC: Union parishad and cpp jointly conduct the rescue and search

(4)Sufferer Help

DMC: All Govt and non-govt organizations help the sufferers.

(5)Damage Survey

DMC: CPP and DMC conduct the damage survey together

(6)Other

DMC:

CPP:

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

DMC: 0

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter
DMC: Yes

 - evacuation route
DMC: yes

 - shelter capacity
DMC: not enough

 - storage of food and water, and so on
DMC: in union parishad and in the shelter

(2)Current Condition of shelters

- Number of shelters : Existing: 10 Plan:
- Total capacity : 2500 Population ratio: 4.16
- Solo use:5 Multi use 5
- Other purposes of multiuse shelter: school and union parishad
- Do you think the shelters have enough height for tidal wave/ flood? no

(3)Operation / Management

- Owner: school management committee

- Operation/ Management: school management committee

- Cost burden: no budget for that

(4)Shelter Management Manual

- Do you have a shelter management manual?: no

8. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
DMC: no
CPP: no
- Do you have obligation to record activities under state of emergency and report it?
DMC: yes
CPP: yes

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
DMC: yes
CPP: yes
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	Union parishad and CPP	
	Injured	Union parishad and CPP	
	Evacuees	Union parishad and CPP	
Private Sector	Building	Union parishad	
	Agriculture	Union parishad	
	Fisheries	Fisheries department	
	Manufacture		
Public Sector	Road, Bridge	LGED	
	Dike		
	Public Utilities		
Generalization, Statistics			

9. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidr	Aila			
Type	Cyclone	Cyclone			
Start Date	13.11.2007	25.05.2009			
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity	190km/hour				
Highest Sea Level					
Total Rainfall					
Dead Missing	3				
Injured	23				
Total Collapse Houses	140				
Half Collapse Houses	342				
Total Collapse Dike	4				
Half Collapse Dike	3				
Inundation Area	100%				
Inundation Depth					
Agriculture Damage	100%				
Fisheries Damage	100%				
Economic Losses					
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?

If you have any issues and problems related to each stage of disaster Issues and Problems: About cyclone Mahasen

- ✓ Normal Times:

DMC: most of the members are not trained. Training is necessary.

CPP: Budgets are necessary for training and meeting purposes.

- ✓ Alert and Warning Stage:

DMC: mobile network is really bad

CPP: most of the early warning equipments are out of order.

- ✓ Disaster Stage

DMC: More cyclone shelters are necessary

CPP: More cyclone shelters are necessary

- ✓ Rehabilitation Stage

DMC:

CPP:

- How many percent of residents did evacuate to shelters?

85% people wanted to move to shelters. But only 15% were able to accommodate to the shelter. Rest of the people actually took shelter to safe place.

- What were the causes of deaths? Please select below.

1. Warning didn't deliver to the residents.

2. They stayed the houses even after the warning.

(Please describe the reason:

)

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

11. Others

Please describe other issues and problems or important information.

- One of the most disaster prone area
- Roads condition is really poor

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Tonmoy Islam	DRRO	DDM	01713187309

(3) Responding Date and Hour

27 / 05 / 2013

(4) Responding Place

DDM office, Feni district

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Directorate of Disaster Management

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

In district level, they have only DRRO, one PIO and 3 office staff to execute all disaster management tasks

(3) Number of Human Resources

Quorum: Enrollment:

(4) Population and Number of Household

Year: 2011 Source: Census

Population:

Male: 7,22,626 Female: 7,73,512 Total: 14,96,138

Number of Household:

(5) Area

928 $\sqrt{\text{Square kilometer/Hectare}}$

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	6		
Number of Union	5 pouroshova (urban), 43 unions (rural)		
Number of Gram	564		
Number of Para			
Number of Polder			

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	75,922 hectares of cultivable land	Due to salt water inundation, crops are damaged, without inundation problem they could cultivate three times a year but now they do only once.
Fisheries		
Manufacture		
Service	5 large industries, 7 medium industries, 826 small industries	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

www.feni.gov.bd/node/498704



3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

The DRRO (in charge), stated that they are mostly dependent on BMD(Bangladesh Meteorological Department) web site because, the website is up dated. He said that when they get official order of bulletin 22, by the time the web site bulletin is 23-24. For this reason, after signal 3 they always check the web site.

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood	2010, 2012, 2013	Water from Indian mountains flow through Muhuri river and cause flood in the region
Inside water inundation		
Cyclone	2007, 2009, 2013	Households were damaged

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Police, Magistrate

B: Disaster Relief & Rehabilitation Office H: Local elites (leaders, Imam, Government staff)

C: CPP I: Upozila Administration

D: NGO- Red Crescent J: Medical team in each upozila and union; there were 78 teams in Feni during Mahasen. (Government civil surgeon's supervision)

E: WFP K: LGRD. R & D, Forest department, etc

F: District Megaphone L: DDM office

(3) Duty of each organization

**Although this is district level information, but the only disaster prone upozila of this district is Shonagazi; therefore, these information reflect situation of Shonagazi upozila. There are no CPP activities in district level other than in Shonagazi upozila.

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District	C, F	C, G, H	I	C, I, G	I, J	I	K	I, L	I, A
Upazila									
Union									
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC: 34 Part-time:

(2) Office and Equipments

Sole use office room

Equipments : ✓Desks ✓File cabinets
 ✓Copy machine ✓Computers



Meeting with the DRRO in charge in Feni

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? ✓
- Planning/Reviewing/Updating disaster management plan

Earlier, in field level we found that no one knows about updating process of SOD. They have the updated version of 2010 and said that it was centrally generated. Here, the DRRO disagreed with that and according to him, they sent them letters from district level, but no one replied to it. For this reason, it was finally generated centrally without any field consultancy.

- Staff training

Around 1 year or six months ago office staff of DDM participated in training

- Emergency drill at district/ Upazila/ Union level ×
- Equipment maintenance

The DMIC equipments (megaphone siren system) have not been installed or used yet. Therefore, they were not required to do any maintenance. But the wireless set that was supposed to maintain communication with ministry and district level is damaged for long time.

- Inter organizational/Stakeholder meeting

Stake holder meetings are done in upozila level, mainly in Shonagazi

- Drawing/Reviewing/Updating hazard map

No district level initiatives

- Residents awareness campaign

No district level initiatives

- Residents evacuation drill

No district level initiatives

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Usually, they have a budget of 0.1-0.5 millions, to use for disaster management

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

The allocation policy is demand based. For example, as Mahasen did not cause a lot of damage in this area, they distributed only 1 lakh to the UNO in two phases for arrangement of food to the evacuees. In addition to that, 1.2 metric tons of rice was distributed in Shonagazi.

All these allocations has to be approved by the DC.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?√

- Please describe gaps between the SOD and actual activities? If any.

A major problem of this DDM or any other upozila or district level office is shortage in manpower. In Upozila level, they have only PIO and one assistant to maintain all disaster related activities. In district level, there is only 5-6 office staff. The staffs lack capacity to handle immense disaster conditions.

Maintenance of equipments is another problem.

(1)Number of Human Resources

- How many staffs are mobilized? ✓
- Do you have any regulations/ rules for mobilization of staffs?×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time ✓ DC/ UNO/ PIO office
Others: The emergency head quarter was in DDM office, it was a 24 hour control room. They started from 6 pm, 14th May to 12 am of the 16th.
- Equipments : ✓Desks ✓File cabinets
 ✓Copy machine ✓Computers
 ×UPS ✓Internet
 ×TV set ✓Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
Warning is received from meteorological department. They use fax and mobile phones as long as they have connection and network. The BMD website forecasts most up to date information.
- Where do you send the warning to? What is communication method?
All the UNO and PIOs
- How long does it take usually since receiving till sending information?
20 minutes
- Contents of warning : Which warning signal levels do you use?
11 levels ✓10 Levels 6 levels Others:

- Do you have any issues and problems regarding warning contents?
We get the signals and relay them to community, but signals 5 to 7 are confusing. The DRRO said that he doubt how many people actually understands them.
- Do you have any issues and problems regarding communication method?
If the power supply is available and mobile network is all right then communication is not a problem.
- Do you have communication radio in the district/ upazila/ unit? ✓
- How many percent does mobile phone cover in the area?
Coverage 90%, users 90%
- How many percent does Mosque Microphone cover in the area?
Depending on wind direction, coverage would be 80-90%
- Electricity coverage in urban is 100%, in rural area is 40%
- Solar system: DRRO has no idea
- TV network 100%, users: 40%, FM radio 0%, AM radio 100%, radio users: 10%



Picture: Feni DMIC instruments, their room and antenna for megaphone siren system

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
According to SOD, evacuation order is generated automatically

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

There is no guidance; people use practical knowledge for evacuation

(2)Shelter Management

School committee is in charge during normal time, during disaster CPP or community elites take the lead

(3)Rescue and Search

UP members and their village guards do the rescue and search

(4)Sufferer Help

Allocated according to damage report

(5)Damage Survey

UP members send to UNO, UNO gets approval from DC and allocates from budget

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

Cyclone shelters are located mostly in Shonagazi as that is the disaster prone area, but there are no shelters outside of the polders where more vulnerable communities are living.

- evacuation route

Evacuation route is, what the residents prefer based on their local knowledge

- shelter capacity

400-500 in each floor

- storage of food and water, and so on ×

(2)Current Condition of shelters

- Number of shelters : 88 Existing: 73 Plan:
- Total capacity : 70,000 Population ratio 4%
- Solo use: Multi use: all
- Other purposes of multiuse shelter: mostly schools.
- Do you think the shelters have enough height for tidal wave/ flood? √

(3)Operation / Management

- Owner
Government administration other than NGO funded cyclone shelters
- Operation/ Management
School committee
- Cost burden
Donors

(4)Shelter Management Manual

- Do you have a shelter management manual? ×

9. Records

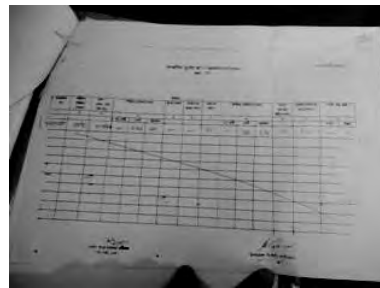
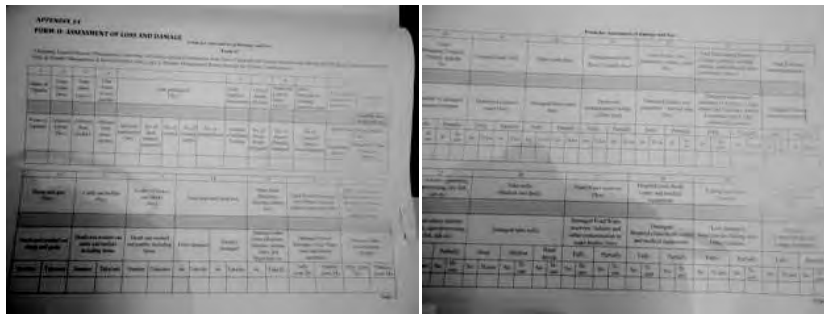
(1)Record of Activities

- Do you have obligation to record normal time activities and report it?
- Do you have obligation to record activities under state of emergency and report it?

(2)Damage Records

- Do you have obligation to survey disaster damage and report it?
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP, CPP	
	Injured	UP, CPP	
	Evacuees	UP	
Private Sector	Building	UP	
	Agriculture	UP, agriculture department	
	Fisheries	Fisheries department, UP	
	Manufacture	-	
Public Sector	Road, Bridge	UP, LGED	
	Dike	LGED	
	Public Utilities	UP	
Generalization, Statistics			



Picture: format of D-form according to SOD and D-form of Mahasen

Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Mahasen				
Type	Cyclone				
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing					
Injured	1				
Total Collapse Houses	31				
Half Collapse Houses	9				
Total Collapse Dike					
Half Collapse Dike					
Inundation Area	11 sq km				
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

10. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

They received first information about Mahasen on the 12th, from meteorological observation station. The sky was cloudy and quiet then.

- ✓ Alert and Warning Stage:

On the 13th they called DMC committee meeting and on 14th they started control room operation.

- ✓ Disaster Stage

15th night, it was drizzling, the storm started on the 16th.

- ✓ Rehabilitation Stage

It rained heavily until 2 pm and signal was down at 5 pm.

- ✓ Total evacuees were around 30,000-35,000
- ✓ One female was injured as a tree fell on her, later she was taken to medical supervision.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

11. Others

The DRRO in charge mentioned that staff shortage is one of the biggest challenges of disaster management. Ministry wants every hour updates from each of the cyclone shelters, which is simply impossible. Also, procedures related to disaster management should be simple and easy. There is no time for being official during disasters, it is time of urgency and we have to take ad hock decisions.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Monsur Uddin	UNO	Upozila Administration	01713187314
Milton Dostidar	PIO	Upozila Administration	01819839687
Mespa ur Rashid	AD	CPP	01819169219

(3) Responding Date and Hour

26 / 05 / 2013

(4) Responding Place

Feni Shadar Upozila office and Shonagazi CPP office

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Shonagazi Upozila, Feni district

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?
DMC and CPP

(3) Number of Human Resources

Quorum: Enrollment:

(4) Population and Number of Household

Year: 2011 Source: Census

Population:

Male: 1,25,390 Female: 1,29,584 Total: 2,54,974

Number of Household: 49,810

(5) Area

284.9 $\sqrt{\text{Square kilometer/Hectare}}$

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		9 unions and 1 pourashova (urban union)	
Number of Gram		97	
Number of Para			
Number of Polder		2	

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	55,012.5 acres land cultivated and total livestock-87,300+poultry-2,40,136	Due to saline water inundation, they can cultivate only one time whereas usually in other parts of the country gets 3 cultivations. Most of the farmer families have huge stock of live stock, but they do not have any killas in this area. Therefore, they are economically more affected than other farmers.
Fisheries	3760 acres of fisheries area (30% population)	Economic loss due to saline water inundation into the ponds.
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Map of Shonagazi upozila in CPP office

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

There is one meteorological observation station in Feni shadar upozila, but none in Shonagazi. The UNO said that they could have definitely used one in Shonagazi. Especially, there is one siren (CDMP megaphone siren system) in BRRI compound in Char Chandia, if they had one they could coordinate that with the siren facility.

Regarding the siren, he said that there are no trained personnel for operation of the siren. The manpower behind it is not adequate.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	1982	Water inundation reached Feni Shadar.
Flash flood	2010	Livestock were washed away due to sudden flood caused by heavy rainfall
Inside water inundation		
Cyclone	1981, 1991, 2013	2013: one female was injured, affected houses were 200 and 31 houses were totally damaged

The UNO mentioned that getting information about cyclones is not the biggest challenge to them. He said, it is time of modern communication and technology. But the main problem of this area is that these people are frequently facing disasters almost every year. So, they don't really care about warnings. It is very hard to convince them to go to the cyclone shelters from their houses as the shelters have very poor facilities and they worry about their livestock and other properties.



Picture: meeting with UNO Feni shadar and in charge of Shonagazi Upozila and Meeting with CPP AD and Shonagazi upozila team leaders.

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC: 31, CPP: 96 Part-time: 96*15

(2) Office and Equipments

Sole use office room ✓

Equipments : ✓Desks ✓File cabinets

 ×Copy machine ✓Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? ✓
- Planning/Reviewing/Updating disaster management plan ×
- Staff training

CPP had some irregularities in trainings last few years. 1995 then 2009 then the most recent was in 2012. They intend to carry it out until 2013 and complete the basic disaster management training in all 9 unions of Shonagazi. So far they have accomplished in 6 and will do the rest in 2013. The subjects were basically rescue, primary health care, etc.



Pictures of various meetings, workshops, trainings in CPP documentation

- Emergency drill at district/ Upazila/ Union level

There was a mock drill in very small scale in both Char darbesh and Char Chandia in April 2013.

- Equipment maintenance

Damaged equipments are sent to Noakhali Zonal office, there is no fixed return time for equipments.

- Inter organizational/Stakeholder meeting

There is no schedule for stakeholder meetings, but usually meetings are organized during emergency, i.e. Mahasen.

- Drawing/Reviewing/Updating hazard map

Shelter based

- Residents awareness campaign

A small scale upozila level meeting was arranged in 2013

- Residents evacuation drill

The most recent one was arranged in 2013 April

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Upozila can spend up to BDT 1 lakh instantly for disaster management

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

They received BDT 50,000 before Mahasen and another BDT 50,000 after Mahasen. In addition to that, they received 1.2 metric tons of rice for distribution as relief from DC's stock.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the "Standing Orders on Disaster: SOD"?

- Please describe gaps between the SOD and actual activities? If any.

DMC: They do not have any vehicles to use for evacuation or warning. If they have a vehicle, they can use it for evacuation as well as relief distribution. Awareness is also a great problem in this area. people do not want to leave their

premises. For this reason, the upozila administration had to use force for evacuation during Mahasen. In addition to that, the UNO in charge mentioned that they do not have any instruments with the DMC. They need hand mikes, raincoats, torch, gumboots, and helmets for their use.

CPP: They need radios in each unit, megaphone, siren, raincoats, torchlight, etc. They also mentioned that there is no water or food supply system in cyclone shelters. They need cycles for communication between units. The CPP AD of Shonagazi mentioned that the DC can book any Government or non government car during emergency. But he is from a volunteer organization; he does not have any authoritative power. Therefore, CPP needs vehicle support during emergency more than the government administrations.

(1)Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs? ×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time ✓ DC/ UNO/ PIO office
Others:
- Equipments : ✓Desks ✓File cabinets
 ×Copy machine ✓Computers
 ✓UPS ✓Internet
 ×TV set ✓Radio receiver



Picture: HF and VHF sets in CPP office and their antenna. CPP team leaders complained that the VHF set is disturbing, they have difficulty understanding messages from it.



Picture: CPP Shonagazi has received 198 recue bags and 198 stretchers from American Red Cross; 3 of each instrument per unit.

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
CPP receives warnings from meteorological department through HF set and UNO receives bulletins from CPP through mobile as well as fax from government administration.
- Where do you send the warning to? What is communication method?
CPP sends information to UNO, PIO, upozila chairman and union unit leaders through mobile phones.
- How long does it take usually since receiving till sending information?
30 minutes
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
Their VHF set disturbs and it makes it difficult to understand the contents, but they do not have any issues with warning language or content.
- Do you have any issues and problems regarding communication method?
Communication is a big problem. Some volunteers do not have mobile phones. So they need bicycles for unit wise communication and motor cycles for communication among the unions.
- Do you have communication radio in the district/ upazila/ unit?
They have HF and VHF but it is disturbing.
- How many percent does mobile phone cover in the area?
Mobile coverage is 100%, but when there is no electricity during disasters they cannot charge their mobiles. Ownership of mobiles is almost 80%

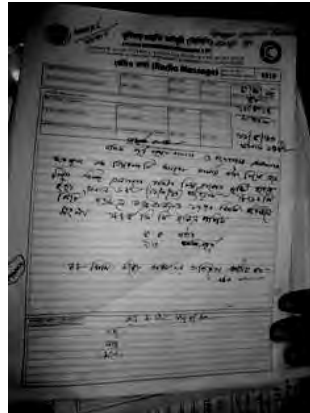
- How many percent does Mosque Microphone cover in the area?

700 mosques, 97% have mikes and their coverage is almost 100%

- Commercial power supply coverage: 60%, solar power: 10%,
- TV network is 100%, AM radio 100%, FM radio 50%,
- Only 10-15% residents listen to radios

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?



7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance

No mechanism

(2) Shelter Management

The shelters that are being used by schools and madrasas are maintained, others have no mechanism.

(3) Rescue and Search

CPP, DMC members, local elites as well as village guards and Anser-BDB works together for rescue and search.

(4) Sufferer Help

Upozila administration helps the sufferers according to damage report. In addition to that, government creates medical support team during emergency.

(5) Damage Survey

CPP and UP report to UNO

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

shelters are mostly located in Char darbesh and Char Chandia as these are more disaster prone unions compared to others. But most of the cyclone shelters are inside the polders. Later, many residents (50%) started living outside of the polders but there are no cyclone shelters outside.

- evacuation route

Communication becomes difficult during rainy season. During disaster, roads are blocked and parts of the area outside polders

- shelter capacity

Due to lack of shelters, during disaster shelters are very crowded. Although shelters would hold 500 but during disaster condition 1,000 people take shelter in each of the cyclone shelters.

- storage of food and water, and so on

Need water supply system in cyclone shelters and in addition to that, sanitation becomes a great problem in cyclone shelters for overflow of people.

(2)Current Condition of shelters

- Number of shelters : 57 Existing: 43 Plan:
- Total capacity : 51,000 (tight) Population ratio: 20%
- Solo use: Multi use: all
- Other purposes of multiuse shelter: Schools, madrasas, etc.
- Do you think the shelters have enough height for tidal wave/ flood? ✓

(3) Operation / Management

- Owner
Upozila Administration
- Operation/ Management
School committee, CPP
- Cost burden
Donor

(4) Shelter Management Manual

- Do you have a shelter management manual? ×

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? √
- Do you have obligation to record activities under state of emergency and report it? √

(2) Damage Records

- Do you have obligation to survey disaster damage and report it? √
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP, PIO	
Private Sector	Building	UP	
	Agriculture	Agriculture officer, UP	
	Fisheries	Fisheries officer, UP	
	Manufacture	-	
Public Sector	Road, Bridge	UP, LGED, etc	
	Dike	UP, LGED, WAPDA etc	
	Public Utilities	UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Aila	Mahasen			
Type	Cyclone	Cyclone			
Start Date		10.05.2013			
End Date		16.05.2013			
Maximum Wind Velocity		90 km			
Highest Sea Level		7 ft			
Total Rainfall					
Dead Missing	-	-			
Injured	-	1			
Total Collapse Houses		31			
Half Collapse Houses		9			
Total Collapse Dike					
Half Collapse Dike					
Inundation Area	63 sq km	5-7 sq km			
Inundation Depth		3-4 ft			
Agriculture Damage	496 acres				
Fisheries Damage	300 ponds				
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

They received first warning on 10th May.

✓ Alert and Warning Stage:

They started warning from 15th May. But no one move, only 40,000 people evacuated. Then they had to apply police force along with two magistrates and the UNO in charge went to Char Chandia and forced people to evacuate at 3 pm that day.

✓ Disaster Stage

At disaster stage, most of the population rushed to the cyclone shelters. 80% people started for the cyclone shelters but still young people stayed at home. 50% people are most vulnerable. They live near coastal area and outside of the polders.

As they had more time during Mahasen to take preparation, 100% population were warned about the cyclone and 90-95% people evacuated to various shelters and relatives' house.

✓ Rehabilitation Stage

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	11.05.13	10am	30 min	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	3	Notice	HF	Speaking			
2	Approaching	14.05.13	2pm	30 min			4	Notice	HF	Speaking		Flag Informed UNO PIO, Chairman, Fisheries people	
3	Ongoing	15.05.13	5pm	10 min			7	Order	HF	Speaking	Position Distance Max speed Direction Bulletin 16	Flag Meeting Miking	
4	Passing	16.05.13	3pm	10 min			7	Order	HF	Speaking	Same Bulletin 26		
5											End bulletin 34		
6													
7													
8													
9													
10													

12. Others

More than 50,000 people of Shonagazi area has been living outer polders. There are no cyclone shelters in that area. The polder was constructed in 1960s. They also have some slide gates in the polders, which do not work at the moment. For this reason, the area is easily inundated by salt water that cause damage to their crops and also farming is a key occupation to many of the villagers but there are no killas at the moment to keep their livestock safe during disasters.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1)Method of Collection (Select from below)

Interview Filling in this paper Other:

(2)Respondents

Name	Title	Organization	Telephone No.
MD:SAMSUDDIN	CHAIRMAN	Union Porishad	01819832112
MD:ABDUL HALIM	SECRETARY	Union Porishad	01717150515
Moulovi Anayetullah	Union Team Leader	CPP	01814837378

(3)Responding Date and Hour

_____ 30 / 05 / 2013

(4)Responding Place

Union Porishad building

(5)Interviewer

Akhmila



Picture: meeting in Char Chandia union porishad

2. General Information of Organization (District/ Upazila/ Union)

(1)Name of Organization

Char Chandia Union Porishad, Shonagazi upozila, Feni district

(2)Organization Chart

- Could you provide the latest organization chart? if any.

Same as other unions

- Which departments/units are in charge of disaster management in the latest organization chart?

UP members, Chairman, CPP

(3) Number of Human Resources

Quorum: Enrollment:

(4) Population and Number of Household

Year: 2011 Source: Census

Population:

Male: Female: Total: 40,592

Number of Household: 7,276

(5) Area

76.86 √Square kilometer/Hectare

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			4
Number of Para			7 Mouzas
Number of Polder			1 (7 km)

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	50%, out of which 10% are involved with livestock farming	Out of polder crops are damaged in salt water inundation and live stock are washed away that causes economic loss.
Fisheries	10%	
Manufacture		
Service	Rest of the population is dependent on foreign currency; to the keen members living abroad.	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?

No map was found in the union office.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	Every year	
Flash flood		
Inside water inundation		
Cyclone	1985, 1991, 2007, 2009, 2013	15 people died in cyclone 1991, other than that they lose live stocks and households are damaged during disaster.



Picture: Huge fertile land area are used for rice cultivation in this union, but due to water inundation they can only harvest once in a year, whereas in most parts of the country it is three times a year. The chairman mentioned that if a new polder is constructed covering the new areas of the union, then they can grow paddy for the whole district and they don't need any further assistance.

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Upozila administration

B: Disaster Relief & Rehabilitation Office H: Medical team

C: CPP I: NGO (Gono Shastho Kendra)

D: Mosque mike, UP hired mike, J:

E: UP members K:

F: Village police L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C, D	A, C, E, F	G	A, C, I, E, F, G	E, G, H, I	E	E, G	E, G	C
Gram									
Para									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC: 26, CPP: 17

Part-time: 17*15

(2) Office and Equipments

Sole use office room:

Equipments : √Desks ×File cabinets

 ×Copy machine ×Computers

The union has digital Bangladesh instruments

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?

There is no union copy of standing order. They get instructions from PIO and UNO. The original SOD is in English, which is not easy for UP members

- Planning/Reviewing/Updating disaster management plan ×
- Staff training

3 months ago American Red Cross arranged four day training. Before, they received trainings in upozila level.

- Emergency drill at district/ Upazila/ Union level ×
- Equipment maintenance : no functional mechanism
- Inter organizational/Stakeholder meeting

Arranged after signal 4

- Drawing/Reviewing/Updating hazard map ×
- Residents awareness campaign ×
- Residents evacuation drill ×

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Last financial year budget was BDT 7 million

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
They get warning from PIO's office through mobile
- Where do you send the warning to? What is communication method?
The warnings are then relayed to the members
- How long does it take usually since receiving till sending information?
15 minutes to reach the members and 4-5 hours to arrange announcements
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
×, they get verbal warning from upozila and only the zest is relayed to them
- Do you have any issues and problems regarding communication method?
Road communication in this area is very poor. On top of that, rain makes it even harder to transport through the mud
- Do you have communication radio in the district/ upazila/ unit?
There is one megaphone siren system in Purba(eastern) Char Dolia union
- How many percent does mobile phone cover in the area?
Mobile phone coverage 100%, usage 50% due to lack of electricity
- How many percent does Mosque Microphone cover in the area?
87 mosques, 80 have mike, coverage is 60%. Very few mosques are out of polders
- Commercial power supply cover 50% of the area
- 5% covered by solar power
- TV network: 100%, AM radio network 100%, FM radio 0%
- 50% TV users
- 2% listen to radio

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
UNO office

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

Awareness is a big problem in this area. The upozila administration had to apply police force to ensure evacuation in right time

(2)Shelter Management

School committee

(3)Rescue and Search

CPP, UP members and village guard people take part in post disaster rescue and search

(4)Sufferer Help

Local elites and upozila administration help the sufferers

(5)Damage Survey

UP and CPP does damage survey after disaster

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

There are no evacuation shelters outside of the polder

- evacuation route

Evacuation routes are damaged as there are no road communications outside the polders and also, rain causes serious disruption in road communication

- shelter capacity

200 in each shelter

- storage of food and water, and so on ×

(2)Current Condition of shelters

- Number of shelters : 9 Existing: 9 Plan:
- Total capacity : 2000 Population ratio 4%
- Solo use: 1 Multi use 8
- Other purposes of multiuse shelter: school, primary school, etc
- Do you think the shelters have enough height for tidal wave/ flood? ✓

(3)Operation / Management

- Owner
Upozila administration
- Operation/ Management
School committee
- Cost burden
Donor

(4)Shelter Management Manual

- Do you have a shelter management manual?×

9. Records

(1)Record of Activities

- Do you have obligation to record normal time activities and report it?✓
- Do you have obligation to record activities under state of emergency and report it? ✓

(2)Damage Records

- Do you have obligation to survey disaster damage and report it? ✓
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP, CPP	
	Injured	UP, CPP	
	Evacuees	CPP, UP	
Private Sector	Building	UP	
	Agriculture	Agriculture officer	
	Fisheries	Fisheries officer	
	Manufacture	-	
Public Sector	Road, Bridge	UP	
	Dike	up	
	Public Utilities	UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

No record

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Mahasen
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

10th May, they received verbal warning, it said that there might be a cyclone. The sky was clear but it was very hot. On the 13th there was a meeting in upozila level, they received briefing that a big cyclone is coming and they should take precautions.

It was cloudy that day but it did not rain

- ✓ Alert and Warning Stage:

On the 14th, there was a union level meeting. In the meeting, they discussed that four unions of the area are vulnerable to disaster, they are: 4,7,8,9. They decided that they will distribute dry food if necessary, but finally, it was not necessary as the cyclone lost potential before reaching Shonagazi. On the 15th, 2 pm they started announcing.

- ✓ Disaster Stage

On the 15th, 4 pm people started coming to the cyclone shelters, 50% came voluntarily and for the rest of the population, they had to apply force at night.

The storm started on 16th at 11.45 am. It was drizzling and wind was blowing at a high speed. The storm lasted for 1 hour.

- ✓ Rehabilitation Stage

The signal was down at 3pm, no damage was caused in this region due to Mahasen.

- ✓ 20% of the total population evacuated into cyclone shelters during Mahasen

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

12. Others

There are sluice gates in the polder. The polder was constructed in 1962. 6 gates are now damaged. For this reason, salt water comes inside the cyclone shelters. no killa to safeguard live stocks, this is very urgent to the residents there are 664 deep tube wells in this area, which are not adequate to serve the needs of drinking water in this region.

The local residents suggested that if a 500*800 sq ft killa is constructed with a pond inside, then the water will be protected from salt water and they can keep the animals safe.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Abul Kalam Ajad	Chairman	Union Porishad	01819803439

(3) Responding Date and Hour

 28 / 05 / 2013

(4) Responding Place

Union Porishad

(5) Interviewer

Akhmila



2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Char darbesh union, Shonagazi Upozila, Feni district

(2) Organization Chart

- Could you provide the latest organization chart? if any.

Same as other unions

- Which departments/units are in charge of disaster management in the latest organization chart?

Union DMC, Chairman, members, CPP, etc.

(3) Number of Human Resources

Quorum:

Enrollment:

(4) Population and Number of Household

Year: 2011 Source: Census

Population:

Male:

Female:

Total: 32,145

Number of Household: 6,193

(5) Area

49.25 $\sqrt{\text{Square kilometer/Hectare}}$

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			5
Number of Para			
Number of Polder			1 (20km)

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	80%	Crops are damaged
Fisheries	10%	Economic loss
Manufacture	×	
Service	10% live abroad	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: map of Char Darbesh union.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?



Picture: Digital Bangladesh funded union information centre.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	1985, 1991, 2013	Many people and livestock were washed away during flood 1991

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC 23, CPP 12

Part-time: 12*15

(2) Office and Equipments

Sole use office room

Equipments : √Desks √File cabinets

 ×Copy machine ×Computers

The union also has digital Bangladesh instruments.

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? √
- Planning/Reviewing/Updating disaster management plan×
- Staff training

DMC: ×

CPP: last training was organized in 2011, for volunteers about warning, rescue, pre-post disaster preparedness, etc. The training was arranged by American Red Cross for 2 days.

- Emergency drill at district/ Upazila/ Union level

Arranged in small scale in 2013

- Equipment maintenance

No maintenance; they send damaged equipments to work shops and they never come back.

- Inter organizational/Stakeholder meeting

After signal 4, DMC organizes meeting

- Drawing/Reviewing/Updating hazard map

× no union level map

- Residents awareness campaign

CPP, 8 May, one rally

- Residents evacuation drill

Emergency drill: 2013

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Last year financial budget BDT 7.8 million 0.2 million for ad hock disaster management.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? ✓

- Please describe gaps between the SOD and actual activities? If any.

CPP needs gumboots, megaphone, siren, raincoats

DMC: all the cyclone shelters are constructed inside the polders. There are no cyclone shelters outside of the polders. Communication outside of the polders is very difficult during emergency. The polders are very old, it needs repairing.

Another problem is that there are no killas out side of the polder. So, the residents cannot safeguard their animals and therefore, do not want to leave their households.

(1)Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs? ×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time ✓ DC/ UNO/ PIO office
Others:
- Equipments : ✓Desks ✓File cabinets
×Copy machine ×Computers
×UPS ×Internet
×TV set ×Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
DMC: UNO through mobile, and also issues letter. CPP: from upozila office through mobile phone
- Where do you send the warning to? What is communication method?
DMC: members through mobile phone
CPP: unit team leaders through mobile or liaison volunteers
- How long does it take usually since receiving till sending information?
1 hour to call for meetings and another 2 hours to arrange announcement.
- Contents of warning : Which warning signal levels do you use?
11 levels ✓10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
×
- Do you have any issues and problems regarding communication method?
Communication with outer polder is very difficult
- Do you have communication radio in the district/ upazila/ unit?
Damaged
- How many percent does mobile phone cover in the area?
Coverage 100%, ownership 70%; In Char area there is no electricity therefore, residents do not use mobile phones
- How many percent does Mosque Microphone cover in the area?
85 mosques, 75 have mikes, coverage 100%

- 20% have commercial power supply for 8-10 hours
- 5% have solar power system
- TV network 100%, FM radio 0%, AM radio 100% but usage of radio is only 2%
- Ownership of TV 20%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Upozila administration

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

No mechanism

(2)Shelter Management

School committee

(3)Rescue and Search

Village guards and CPP take part in rescue and search actions

(4)Sufferer Help

Upozila administration

(5)Damage Survey

UP members and cpp

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

All the shelters are inside the polders

- evacuation route

The most vulnerable community in this area is the people living outside the polder, but they do not have good communication roads.

- shelter capacity

1,000 in each cyclone shelters if they are very crowded

- storage of food and water, and so on

One cyclone shelter has a shallow tube well

(2)Current Condition of shelters

- Number of shelters : 5 Existing: 2 Plan:
- Total capacity : 2,000 Population ratio 6%
- Solo use: Multi use 2
- Other purposes of multiuse shelter
- Do you think the shelters have enough height for tidal wave/ flood? √

(3)Operation / Management

- Owner
Upozila administration
- Operation/ Management
School committee
- Cost burden
No mechanism

(4)Shelter Management Manual

- Do you have a shelter management manual? ×

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
- Do you have obligation to record activities under state of emergency and report it?

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP, UP, PIO	
Private Sector	Building	UP	
	Agriculture	Agriculture officer, UP	
	Fisheries	Fisheries officer, UP	
	Manufacture	-	
Public Sector	Road, Bridge	UP, LGED, R&D	
	Dike	UP, LGED, R&D	
	Public Utilities	UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

No union level info

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

11.05.2013 11 am they received warning signal 3. The sky was cloudy, no rain but it was sunny in some parts. The signal said that there is a depration in bay of Bengal, boats are to stay near costs.

✓ Alert and Warning Stage:

14.05.2013 2 pm the signal was 4, the sky was clear but cloudy at some parts. They started operations of the control room at that time,

✓ Disaster Stage

15.05.2013 12 pm the signal was 7, the sky was cloudy and it was drizzling. On 16.05.2013, from 11.30-12.45 wind was blowing at a very high speed. That day, 2.00 pm after the weather became normal, the control room was closed.

✓ Rehabilitation Stage

No damage was done by Mahasen in this area. but only 20% people evacuated after announcement on the 15th. 80% people evacuated on the 16th after applying force.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

12. Others

Outer polder land is higher than inner polder land. The polder was constructed in 1960s. After that it had some minor repair works done but it is not enough to hold even normal high tide. There is only one killa in this area, which is not adequate to keep the livestock safe. For this reason, the residents do not want to leave their property and come to cyclone shelters.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
A K M Mizanur Rahman	DC	Lakshmipur District	01713121166
Arunendra Kishore Chakraborty	DRRO	Lakshmipur	01712205744

(3) Responding Date and Hour

11 / 04 / 2013

(4) Responding Place

Lakshmipur DC Office

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Lakshmipur DC Office

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

There is no CPP office in lakshmipur district; CPP has a zonal office in Noakhali, from which they control Noakhali, Feni and Lakshmipur.

Number of Household: 345,838

(5)Area

1440.39 √Square kilometer/Hectare

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	5		
Number of Union	58		
Number of Gram	547		
Number of Para			
Number of Polder	83 km polder		

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	73%	Crops are damaged.
Fisheries	3.45%	Life risk
Manufacture	6.10%	House hold damaged
Service	20.80%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Map of Lakshmipur district.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

There is one WAPDA office in Noakhali Shonapur.

Rainfall: Wind:
River level: Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

The new system will start working in regional level. It is expected to start within one or two months but as the system has not started yet, the accuracy or viability is not deliberated yet.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
√Flash flood		Caused water inundation that damaged crops.
Inside water inundation		
√Cyclone	2007,2009	2 deaths in Sidor and 7 in Aila. Other than that, there were many households, crops and live stocks damaged during these two cyclones.

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC: 27

Part-time:

(2) Office and Equipments

Sole use office room

Equipments : ✓Desks ✓File cabinets
 ✓Copy machine ✓Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? ✓
- Planning/Reviewing/Updating disaster management plan ✓
- Staff training

DRRO received training from Bangladesh government

- Emergency drill at district/ Upazila/ Union level

Emergency drills are done at union level.

- Equipment maintenance

No information

- Inter organizational/Stakeholder meeting

Prior to disaster, season.

- Drawing/Reviewing/Updating hazard map
- Residents awareness campaign

Union level

- Residents evacuation drill

Union level

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

The DC office has BDT 12,24,000 fund for House hold construction and also they have BDT 30,3000 total fund in bank for emergency needs.

In addition to that, they have 80 metric tons of rice and 101 bundles of tin for emergency distribution.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

There are no allocation policies prior to disaster. After disasters, volunteers count the number of evacuated people in each camp and food is cooked in front of each cyclone shelter for distribution among the evacuees.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?√
- Please describe gaps between the SOD and actual activities? If any.

Initially there were many issues and problems. But now, after Sidor and Aila, people involved with disaster management are aware of their jobs. The only deficiency is transport vehicles. The DRRO complained that there are no vehicles for the DRRO himself and also, they need rescue boats etc for effective communication.

(1)Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs? ×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time ✓ DC/ UNO/ PIO office
Others:
- Equipments : ✓Desks ✓File cabinets
✓Copy machine ✓Computers
✓UPS ✓Internet
×TV set ✓Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
Dhaka weather forecast through fax.
- Where do you send the warning to? What is communication method?
Upozila offices through mobile messages
- How long does it take usually since receiving till sending information?
30 minutes
- Contents of warning : Which warning signal levels do you use?
11 levels ✓10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
The warning is easy to understand for general people. But we break it into easy local language so that they can understand the message.
- Do you have any issues and problems regarding communication method?
It is expected that after the new system starts, it will be quicker and automatic information transfer. The system is self explanatory, there should not be any problems.
- Do you have communication radio in the district/ upazila/ unit?
No communication radios
- How many percent does mobile phone cover in the area?
70-75%
- How many percent does Mosque Microphone cover in the area?
100%
- Commercial power supply; Urban: 100%, Rural: 63%

- Less than 1% as it is very expensive.
- 100% mobile phone network.
- 99% residents have mobile phones.

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
Dhaka weather forecast department.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

Female and elderly are first priority.

(2)Shelter Management

Shelter management committee

(3)Rescue and Search

(4)Sufferer Help

(5)Damage Survey

UP chairmen send the message to UNO, they transfer them to DC office.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter



Picture: Positions of cyclone shelters in Lakshimpur District.

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter

Vulnerability is the first priority, but it depends on land availability as well.

- evacuation route

People use their practical knowledge to go to the cyclone shelters.

- shelter capacity
- storage of food and water, and so on

(2)Current Condition of shelters

- Number of shelters : 104 Existing: 100 Plan: ×
- Total capacity : 500-1,000 each Population ratio 4%
- Solo use: Multi use: most of the shelters
- Other purposes of multiuse shelter: Schools, union parishads, etc.
- Do you think the shelters have enough height for tidal wave/ flood?√

(3) Operation / Management

- Owner
Shelter management committee
- Operation/ Management
Shelter management committee
- Cost burden
Donors some time repair the cyclone shelters, otherwise no one takes the cost burden. At the moment, 13 cyclone shelters need repairing.

(4) Shelter Management Manual

- Do you have a shelter management manual?

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
- Do you have obligation to record activities under state of emergency and report it?

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?√
- Could you provide information which organization is in charge to record each item in the table below? √

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	UP and CPP	
	Injured	UP and CPP	
	Evacuees		
Private Sector	Building	UP and CPP	
	Agriculture	UP and CPP	
	Fisheries	UP and CPP	
	Manufacture	UP and CPP	
Public Sector	Road, Bridge	UP and CPP	
	Dike	UP and CPP	
	Public Utilities	UP and CPP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidor	Aila			
Type					
Start Date					
End Date	15.11.2007	25.05.2009			
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing	2	8			
Injured	1	No info			
Total Collapse Houses	2,646	1,119			
Half Collapse Houses	12,015	3,516			
Total Collapse Dike	3.5 km	.08 km			
Half Collapse Dike	9.7 km	26.783 km			
Inundation Area	1,195.64 km	279 sq km			
Inundation Depth					
Agriculture Damage	42,810 hectors of agricultural land damaged	8,373 acres of agricultural land			
Fisheries Damage	193 fishing boats damaged	157 fishing boats			
Economic Losses	BDT 66,42,53,000	BDT 59,785000			
Others					

Pictures: Lakshmipur district D-forms; Aila: page 1,2 (top) and Sidor: page 1,2(bottom).

Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone:
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:
- ✓ Alert and Warning Stage:

✓ Disaster Stage

✓ Rehabilitation Stage



Pictures: Meeting with DC (left) and DRRO Lakshmipur.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-11 Level - 8-10 Level -6 Level	-Notice -Recommendation -Order						
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

11. Others

The ground level of Char Abdullah is very low. For this reason, the area is inundated even during normal high tide. There are no sophisticated boats that can run during disasters. The DRRO mentioned that for isolated area, sea trucks can be used. These trucks will be used for evacuation during disasters and in normal time, they can be used to transfer agricultural goods.

The DC said that they need sirens for char Abdullah and Char Gozaria so that they can warn people during disaster.

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
A S M Hasan Al Amin	UNO	Upozila Porishad	01741590591 Halamin21@yahoo.com
MD Aman Ullah	PIO	Upozila Porishad	01713639214 pioman@yahoo.com
Shajahan Talashi	Journalist	Prothom Alo daily news paper	01712147599
Zakir hossain	Fisheries officer	Upozila Porishad	Email:
Members of CPP	Incorporated in attendance sheet		
Members of DMC	Incorporated in attendance sheet		

(3) Responding Date and Hour

06 / 04 / 2013

(4) Responding Place

UNO office, Lakshmipur, Ramgoti

(5) Interviewer

Kazi Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Upozila Union Porishad, Ramgoti Upozila, Lakshmipur district.

(2) Organization Chart

● Could you provide the latest organization chart? if any

Available URL: www.ramgati.lakshmipur.gov.bd

- Which departments/units are in charge of disaster management in the latest organization chart?

UNO, PIO, Chairman in normal time. During emergency: all governing bodies.

(3) Number of Human Resources

Quorum: 27 Enrollment: 27 (Some officers are additionally in charge of more than one department, but all are enrolled)

(4) Population and Number of Household

Year: 2001 Source: population census

Population:

Male: 117715 Female: 111438 Total: 2, 29,153

Number of Household: 45,830

(5) Area

375 Square kilometer

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies. Under ramgoti upozila

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		8 unions, And 1 pouroshova	
Number of Gram		42	
Number of Para		Mouja 34	
Number of Polder		1 polder (broken)	

(7) Outline of Industry

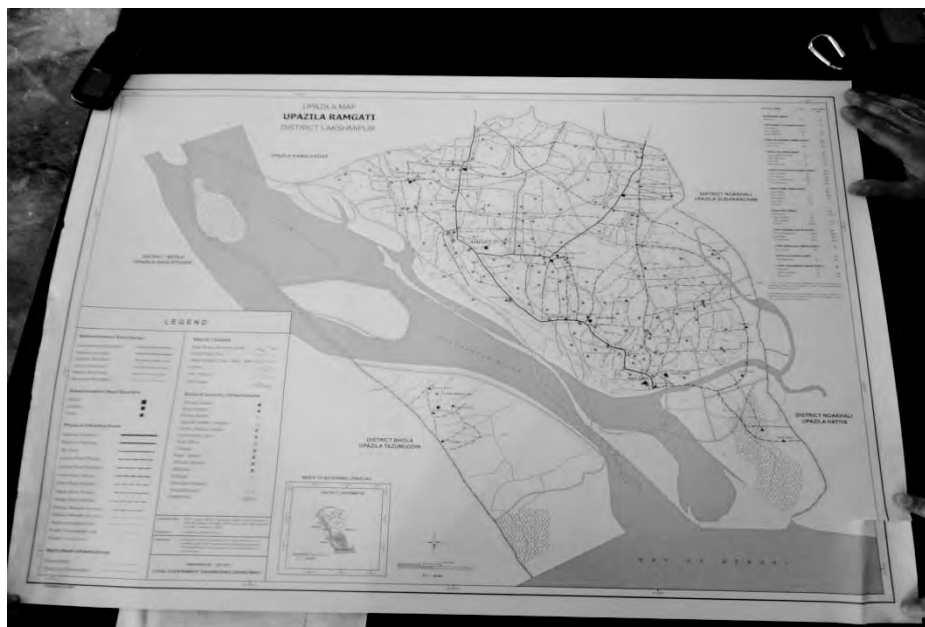
- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture		After Aila, they had abnormal high tide for months. The water level was 2/3 feet higher than usual time. Length of tide also increased. Therefore, one tide would come before water level goes down due to previous tide. Therefore, lowlands in shore were covered in tidal flood for 2/3 days and crops were damaged.

Fisheries	80% (directly or indirectly)	Life risk, when they are in deep sea, they do not get signals and cannot get back.
Manufacture	500 people (garment)	Comparatively safer than other population
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Map of ramgoti upozila, 2008.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

No stations in this upozila. Meteorological observation station can be found in district level.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?

There is one in Hatia to measure river level.

- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

Currently, the warning system is centrally generated. Local governing bodies do not have authorization to issue warning. The warnings should contain names of the locality, so that people understand that it is about their region. Also, as it is central, sometimes they provide gross measurements. For example, the message content will state that wind will blow at a rate of 230 km/hour from Cox's bazaar to Mongla, but in fact, the velocity will definitely change as it approaches the shore.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	2007, 2009	Damaged soya bin and other crops in field
Flash flood	n/a	
Inside water inundation	n/a	
Cyclone	2007, 2009	Death of 7 people and 230 injured during cyclone Aila.

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

- | | |
|--|----|
| A: Disaster management committee | G: |
| B: Disaster Relief & Rehabilitation Office | H: |
| C: CPP | I: |
| D: UP Members | J: |
| E: Armed forces | K: |
| F: NGO(Proshika, BRAC, PAGE, CODEC) | L: |

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	C	C	C	C	D,E,C	D	D,C	F	C,F
Union									
Gram									
Paradip									
Individual									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time:

CPP office: 16

DMC: 27

Part-time:

CPP: 240

DMC: ×



Meeting at upozila CPP office, Ramgoti, Lakshmipur:06.04.2013

(2) Office and Equipments

Sole use office room× (usually pourashova office)

Equipments : √Desks √File cabinets
 ×Copy machine √Computers

6.2 Contents of Activity

(CPP)

Let us know normal times activities. How frequent and how many participants?

- ✓Do you have disaster management plan? (provided booklets)
- ×Planning/Reviewing/Updating disaster management plan (needs to be done but no funds)
- ✓Staff training (supposed to have yearly training, but last time was 3 years ago)
- ×Emergency drill at district/ Upazila/ Union level
- ✓Equipment maintenance (first disaster season in a year is April-june, then October- December. They check equipments before each disaster season and send to the workshop in Chittagong. There were two workshops where CPP instruments used to be sent, one in Chittagong and the other in Barishal. But the workshops are now closed for last 5 years. Therefore, the damaged equipments are left unattended.)
- ✓Inter organizational/Stakeholder meeting (4 times a year: 2 times before each disaster season)
- ×Drawing/Reviewing/Updating hazard map
- ✓Residents awareness campaign (quarterly)
- ✓Residents evacuation drill (last done in 2011 April)

DMC activity:

- DMC do not have meetings unless the signal is more than 4.
- Training: they had mock rehearsal of SOD: evacuation, rescue, etc with CPP together.
- Equipment: 1 Siren; installed 1 year ago, has not been used yet.
- Campaigns: two campaigns each year with CPP.

6.3 Financial Status

No budget for CPP. No budget for DMC normal time activities.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? ✓

CPP:

Warning sites	Process	Through
Dhaka to district/upozila level	HF's are supposed to be opened three times a day during normal time (9:30 am, 1:30 pm, 8:00 pm). If it is emergency, then the district/upozila level team leaders receive messages in their mobile phones to open the HF.	HF
Upozila to union level	Massages are sent to VHF or volunteers travel by local transports to inform.	VHF/mobile/volunteers
Union to unit team leaders	If the signal is more than 4, then union team leaders call the unit team leaders over mobile phone or volunteers travel on foot to inform.	Mobile/volunteers
Unit team leaders to volunteers	Unit team leaders then call a meeting among the volunteers and assign tasks depending on urgency of the signal.	Volunteers

DMC: If the signal is more than 4, then; Dhaka to District level through mobile phones. District to UNOs through mobile phones also issues emergency letters, which is delivered hand to hand.

UNO calls all the union chairmen in a meeting through mobile phone and also, issues letters to be delivered in hand. During emergency, this meeting resolution is transferred into action by union chairmen and their ward members.

- Please describe gaps between the SOD and actual activities? If any.

Communication is the major problem in this area. As this is a riverside place,

- Where do you send the warning to? What is communication method?

CPP: Warning is sent to Union level, communicated through VHF/mobile/Volunteers.

DMC: if the signal is more than 4, then they call the union chairmen and tell them to arrange a meeting among the staff members. They also issue a letter to the chairmen.

- How long does it take usually since receiving till sending information?

CPP: If the volunteers have to travel to the unions, then around 1.30-2.30 hours in motor cycle/ boat.

DMC: 2-5 minutes over mobile phone.

- Contents of warning : Which warning signal levels do you use?

11 levels √10 Levels 6 levels Others:

- Do you have any issues and problems regarding warning contents?

CPP: The contents should include when and where, with names of local places.

DMC: warning contents are centrally generated. So, they are not accurate in local level. For example, in their message, the wind velocity will be same for southern parts of the country. But this side was more affected in Aila than other cyclones. On the other hand, Borishal, Khulna were more affected in Sidor and fishermen in Chittagong were more affected in Nargis.

- Do you have any issues and problems regarding communication method?

1. Komolnigor upozila has been recently separated from Ramgoti upozila. Therefore, all previous equipments belong to Ramgoti upozila. Komolnigor do not have any HF or VHF in there upozila or unions.
2. Need VHF in each union.
3. FM radio frequencies cannot be received in this region, but mobile phones can only receive FM frequency. So, technically, volunteers cannot receive radio signals as they do not have radios.
4. 50% of the sirens and mega phones are damaged.
5. To travel in disaster situation, the volunteers need raincoats, life jackets, helmets, boots, torch and bicycle/ motor cycle to travel to the unions.

- Do you have communication radio in the district/ upazila/ unit?

The CPP members received some radios after 1972. Those were Japanese radios and lasted very long. After that they received radios 5/6 times, but they stopped working after a few months. Therefore, CPP needs good quality 3 band radios for each unit as there is no electricity or mobile phone network during disasters.

- How many percent does mobile phone cover in the area?
10% network, 1% users in Char/ island area.
- How many percent does Mosque Microphone cover in the area?
100% population is covered in main land, 70% in Char/island.
- 10% covered by commercial electricity supply.
- 5% by solar panels.
- 80% mobile network coverage.
- 50% people have at least one mobile phone in family.

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
CPP, UNO from Upozila Porishad.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

CPP has rescue team in each unit.

(2)Shelter Management

Normal time: Government, school committee.

Emergency time: CPP

(3)Rescue and Search

CPP

(4)Sufferer Help

Relief that comes through red cross goes to the community through CPP and all other helps go through UP.

(5)Damage Survey

CPP and UP

(6)Other

7.4 Financial Statusx no budget.

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter:

Information from CPP office.

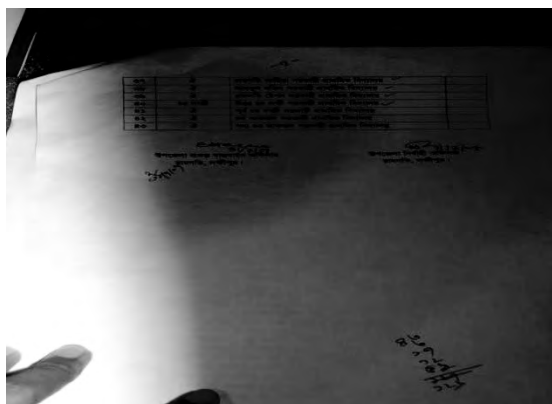
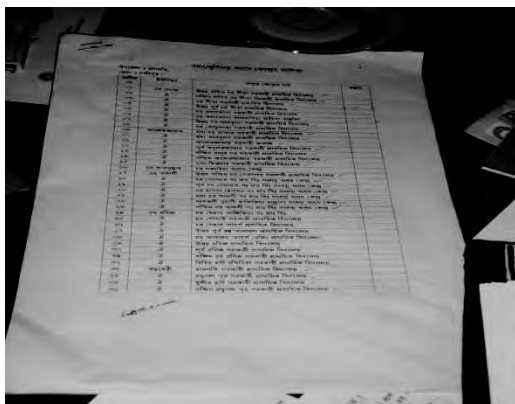
(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter (unit wise)
 - evacuation route (after signal 4, they decide in meeting: CPP)
- DMC: routes are planned according to position of cyclone centers.
- shelter capacity (400-500 in each shelter, if people stand close to each other)
 - storage of food and water, and so on

No storage in action. Need light, medicine, food, separators between men and women's shelter.

(2)Current Condition of shelters

- Number of shelters : 43 Existing: 33 Plan: 43
- Total capacity : 16500 Population ratio 7.2%
- Solo use:× Multi use: all



Picture: List of 43 cyclone shelters in ramgoti upozila

- Other purposes of multiuse shelter

School, collage, madrasa.

- Do you think the shelters have enough height for tidal wave/ flood?
First floors are empty. Therefore, heights are enough.

(3) Operation / Management

- Owner

School/Madrasa committees.

- Operation/ Management

Head master/ principal.

- Cost burden

School committee.

(4) Shelter Management Manual

- Do you have a shelter management manual?

Not available: CPP

DMC: UNO mentioned about a manual, but it was in draft format last year. Not finalized yet.

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?

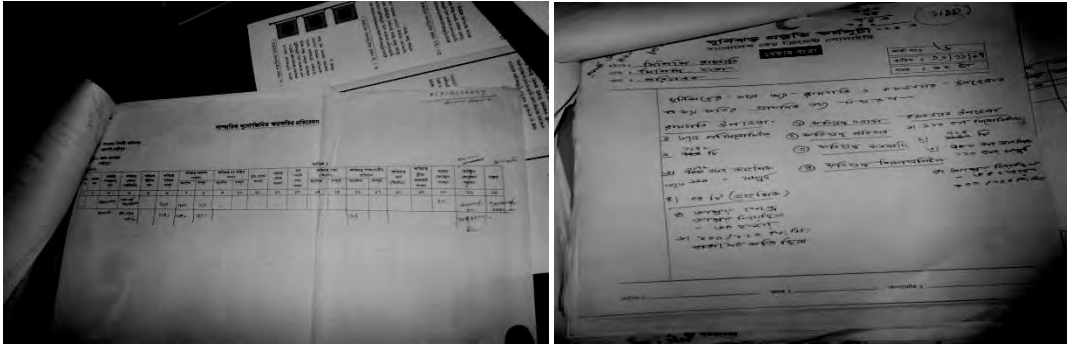
CPP: Quarterly.

DMC: no normal time activity.

- Do you have obligation to record activities under state of emergency and report it?

(2) Damage Records

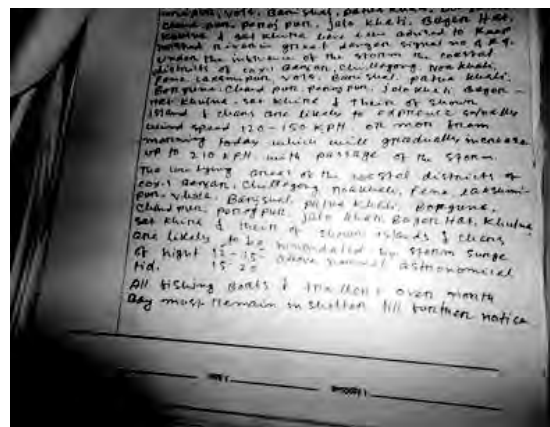
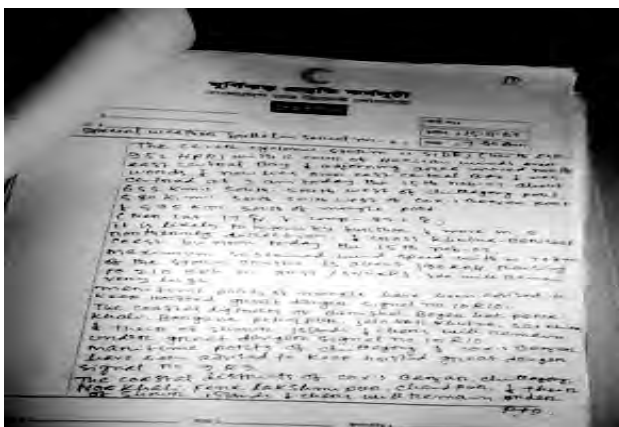
- Do you have obligation to survey disaster damage and report it? ✓



Picture: Record of upozilla level damage report during Aila and Sidor, CPP Ramgoti upozilla.

- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP	
	Injured	CPP	
	Evacuees	CPP	
Private Sector	Building		
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	UP	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics			



Picture: CPP record of cyclone Sidor warnings, Ramgoti upozilla.

Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Sidor	Nargis	Aila		
Type	Cyclone	Storm	Cyclone		
Start Date	11.11.2007	27.04.08	24.05.2009		
End Date	15.11.2007	01.05.08	26.05.2009		
Maximum Wind Velocity	190-210 km/hour	90-115 km/hour (center)			
Highest Sea Level	12-15 feet above normal astronomical tide.				
Total Rainfall					
Dead Missing	-	-	3 dead according to CPP/ 7 according to UP		
Injured			230		
Total Collapse Houses			345		
Half Collapse Houses			773		
Total Collapse Dike					
Half Collapse Dike					
Inundation Area	375 square km		1242 acres		
Inundation Depth					
Agriculture Damage	1395 acres		1072 acres		
Fisheries Damage					
Economic Losses					
Others			Schools 04		

Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any. ✓
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

CPP problems:

✓ Normal Times:

2:30 pm 24.05.2009, 1-3 cautionary verbal warning, 1 signal flag.

Problem×

✓ Alert and Warning Stage:

9:00 pm 24.05.2009, 4-7 warning, call planning meeting, raise two signal flags.

Problems:

No network. Some volunteers had to travel to the unions on foot.

✓ Disaster Stage

8.40 am 25.05.2009, 8-9 warning, evacuation.

Problem:

CPP volunteers were stuck where they were. Because, water level raised up, in the channels.

✓ Rehabilitation Stage

1.30 pm 25.05.2009, heavy rainfall all over the country.

Problem:

The CPP could not start rescue and rehabilitation instantly as the char area is detached from the main land. Therefore, could not communicate with them.

DMC problems:

Normal stage: Warnings are central. Sometimes, regional situations are worse than it is stated in the warnings.

Warning stage: people do not want to evacuate only by warnings. Sometimes they are forced, but still people do not care and they do not want to leave their property.

Disaster stage: no rescue boats or vehicles to take the team members to char area. So they could not communicate with them.

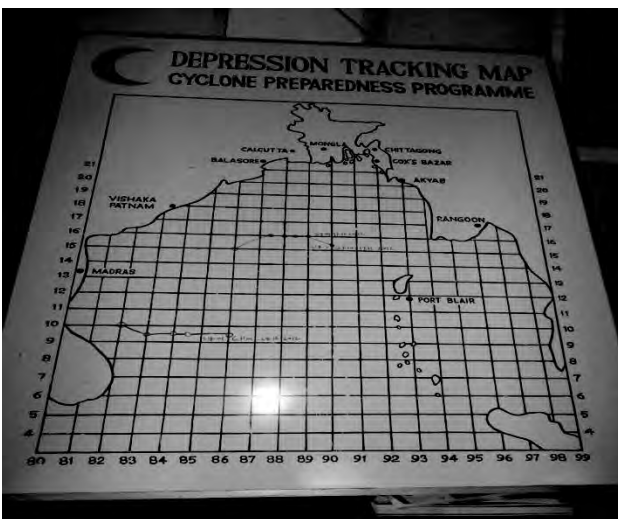
#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone Cell-phone Radio Loudspeaker Face to Face	Speaking Fax Email			
1	Approaching	24.05.09	2:30 pm	Received	Central warning	Upozilla level	1-3	Notice	HF		cautionary verbal warning		
2	Approaching	24.05.09	9:00 pm	Received	Central warning	Upozilla level	4-7	Notice	HF		To prepare to come to shelters	Informd union level, called meeting with team members	Volunteer had to walk to union leader
3	On going	25.05.09	8.40 am	Received	Central warning	Upozilla level	8-9	Notice	HF		To evacuate and come to cyclone centers	Announced over Mega Phone	No communication with char area
4	Passing	25.05.2009	1.30 pm					Notice	HF		Heavy rain	Informd team leaders	no

10. Others

*Ramgoti upozila was more damaged in Aila than any other cyclone. Because, water level rose very high in short time. The upozila has two unions that are near to the river shore and one union, Char Abdullah; is an island separated from the main land. It takes 1:30 hours in engine boats to go to the union. For this reason, rescue system was not functional after Aila. The island now have only one cyclone center. Due to river erosion, the center has come closer to river. Village roads are the only communication to go to the center, which is interrupted by channels. So, people have to walk and then take small boats to go to the cyclone centers. During cyclone Aila, there could have been more damages. But there were 9 single storied tin made shelters, which protected those people. But now, only one is left, others do not exist due to river erosion.

Position of cyclone centers:

DMC (Mayor and UNO) someone has to pay the price for land or donate land to make a cyclone shelter. Government do not have budget to purchase land for cyclone centers. This is a reason for not having cyclone centers in remote char areas.



Pictures: from top, clock wise: damaged radio CPP ramgoti, Meeting DMC ramgoti, Depression tracing map CPP ramgoti and DMIC CPP ramgoti.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
BELLAL HOSSAIN	CHARMAN	UNION PARISAD	01770412323
ZOYNAL ABADIN	Union team leader	CPP	01739701061
Other participants are incorporated in attendants sheet.			

(3) Responding Date and Hour

_____ 08 / 04 / 2013

(4) Responding Place

Talir Char chairman bazaar, Char Abdullh union, Ramgati upozila, Lakshmipur district.

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Lakshmipur district, Ramgati upozila, Char Abdullah union

(2) Organization Chart

- Could you provide the latest organization chart? if any. ✓
- Which departments/units are in charge of disaster management in the latest organization chart?

UP Chairman > Secretary > 9 ward members and 3 female members > 10 village gards.

(3) Number of Human Resources

Quorum: 13 Enrollments: 13

(4) Population and Number of Household

Year: 2012 Source: UP office
 2011 Population census

Population:

Male: 15,500 Female: 16,500 Total: 32,000
 9,715 9,076 18,791

(UP's calculation looks gross to me; exactly 32,000 is almost impossible)

Number of Household:

(5) Area

5,552 Acres. Square kilometer/Hectare

The Char was 26*26 km before 5 years but now, due to river erosion, only 9*11 km is left.

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			5
Number of Para			6
Number of Polder			×

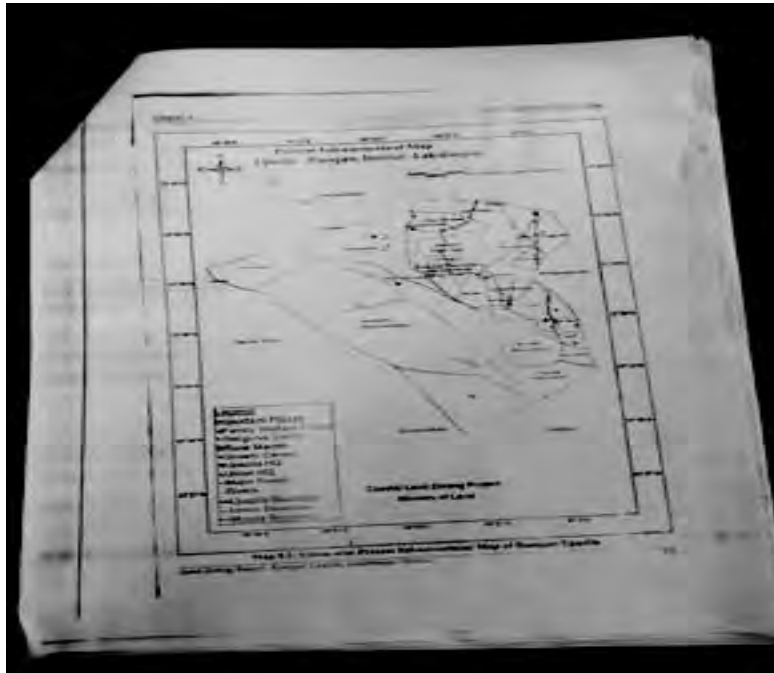
(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	Seasonal (both farmers and fishermen) Jan-April: Dhulia season to grow vegetables; chili, soya bin, okra, garlic, etc. July-Nov: Robi season; rice.	No crops in most of the island after Aila, due to salt water inundation. There were no crops in 2010 and 2011. Therefore, most of the farmers did not cultivate for last two years. But the land is getting better now.
Fisheries	Seasonal (both farmers and fishermen) July-Sep: Rainy season.	Life risk. It takes 7 days to go to the deep sea, and 7 days to return. So, even if they hear the signals, they cannot return to the shore in time.
Manufacture	×	Fishing is prohibited during April-July (breeding season). The village population is jobless during this period.
Service	×	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

CPP: if it is possible to issue warnings from district level to directly union level, then a lot of time can be saved.

DMC: In the Char area, when the central warning is 2, the sky is clear. On the other hand sometimes, when the sky looks like signal 5, the warning says signal 1. Considering the special circumstances in Char Abdullah, only local warning system is an appropriate solution. For which, they need local meteorological department.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	1972,1988, 1991,1997,2012	22 died in 1991 flood. In 1988, water level increase was small, but more households were damaged.
Flash flood	×	
Inside water inundation	×	
Cyclone	1972, 2007,2008,2009	Livestock, crops, household, trees, etc. 4 died in Aila (2009).

5. Department/ Division in charge Disaster Management

(1)Department/ division and other organizations in charge of disaster management

(2)Could you list names of department/ division and other organizations in charge of disaster management?

- A: Disaster management committee G:
- B: Disaster Relief & Rehabilitation Office H:
- C: CPP I:
- D: UP J:
- E: Neighbors helped each other K:
- F: L:

(3)Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	D,C	D,C	C	C,E	D	C,D	D	D,E	C
Gram									
Para									
Individual									
I									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP: 16, DMC: 18 Part-time: 240

(2) Office and Equipments

Sole use office room DMC:× CPP:√

Equipments : Desks File cabinets

 Copy machine Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?

DMC: √

CPP: √

- Planning/Reviewing/Updating disaster management plan

DMC: ×

CPP: ×

- Staff training

DMC: ×

CPP: yearly, last done in 2012.

- Emergency drill at district/ Upazila/ Union level

DMC: ×

CPP: 2012.

- Equipment maintenance

DMC: ×

CPP: Workshop has been closed for last 4 years.

- Inter organizational/Stakeholder meeting

DMC: ×

CPP: √; Last done 3 years ago. No funds now.

- Drawing/Reviewing/Updating hazard map×

- Residents awareness campaign

DMC: ×, CPP: 3 years ago.

- Residents evacuation drill

DMC: ×, CPP: √, last in 2012.

6.3 Financial Status

No separate budget for disaster management. Total budget for last financial year (2012-2013) BDT 60,67,000.

- Let us know the finance statements in normal time activities in the last three years

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?√
- Please describe gaps between the SOD and actual activities? If any.

CPP: the biggest problem is shelter during cyclone. There is only one cyclone shelter for 20,000 residents at the moment. Out of 13 MF and sirens, only two of each are in working condition. Communication is completely blocked during emergency, due to channels across the Char. The channels are full during even normal high tide. They need at least 6/7 cyclone shelters and also, rain coats, hats, etc for volunteers.

DMC: for communication with main land, they urged the requirement of a sea truck, which can be used to transport crops and other agricultural goods, fisheries in normal time. Also, a speed boat for officials can be useful.

(1)Number of Human Resources

- How many staffs are mobilized? CPP: 16*15, DMC: 18
- Do you have any regulations/ rules for mobilization of staffs?×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time√CPP, DC/ UNO/ PIO office
Others: DMC: No office
- Equipments : Desks File cabinets
Copy machine Computers
UPS Internet
TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
CPP: Upozila office, through VHF.
DMC: UNO, through mobile, emergency news in TV.
- Where do you send the warning to? What is communication method?
CPP: unit leaders, through mobile or send volunteers.
DMC: ward members, through mobile.
- How long does it take usually since receiving till sending information?
CPP: 1.30-2.00 hours, DMC: 1/2-1 hour (if network is ok)
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
CPP: fixed names and more accurate local iformation.
DMC: they should mention more specific location. Now, they only mention districts in the warning.
- Do you have any issues and problems regarding communication method?
CPP: materials provided through third party are low quality. Need bicycle, speed boats for communication in rainy season.
DMC: warnings to the community should be directly issued from district level.

- Do you have communication radio in the district/ upazila/ unit?

DMC:×

CPP: 4-5: none of them are in working condition.

- How many percent does mobile phone cover in the area?

DMC: 50 %, CPP: 100% until signal 5, after that no guarantee.

- How many percent does Mosque Microphone cover in the area?

DMC: 100%, CPP: out of 21 mosques, 5 do not have mikes. Therefore, depending on wind direction, 70% are covered.

- Commercial power supply: × no electricity.

- Solar panels: DMC: 1%, CPP: 2%

- Mobile phones: DMC: 20%, CPP: 50%



Picture: the robi mobile antenna Char abdullah

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

DMC: UNO, CPP: Upozila office.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

×No separate guidance; during cyclone, CPP and DMC use hand mikes and mikes to announce to evacuate and go to the nearest cyclone shelters.

(2)Shelter Management

CPP: They have problems managing the shelter. No food/water/sanitation. Toilet is down stairs. No separation for men and women.

(3)Rescue and Search

DMC: DMC use ropes to bring people down from trees. They also use saw to cut trees off the road.

(4) Sufferer Help

DMC: from UP office.

(5) Damage Survey

CPP: damage is counted once after 1/ 2 days of disaster.

DMC: same time, done from UP office.

(6) Other

The present cyclone shelter was funded from ministry of education. Others that are already gone under water due to river erosion were built by NGO Karitash (2), Red Crescent: 1, BIDB: 1.

7.4 Financial Status

*After the damage survey, fund is allocated from the ministry and transferred within 24 hours. No budget for emergency.

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter



Picture: the only cyclone shelter of char Abdullah union, .5 km away from river.

(1) Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter×
 - evacuation route×
 - shelter capacity: 500
 - storage of food and water, and so on×

(2) Current Condition of shelters

- Number of shelters : 1 Existing: 1 Plan: 6(tin shade shelters)

- Total capacity : 500 Population ratio
- Solo use:× Multi use√
- Other purposes of multiuse shelter : Primary School
- Do you think the shelters have enough height for tidal wave/ flood?
DMC: during big cyclones, water can reach the first floor as the base is not very high.

(3)Operation / Management

- Owner: School head master.
- Operation/ Management: School committee.
- Cost burden: CPP during emergency.

(4)Shelter Management Manual

- Do you have a shelter management manual?×

9. Records

(1)Record of Activities

- Do you have obligation to record normal time activities and report it?
×
- Do you have obligation to record activities under state of emergency and report it?

Both CPP and DMC do.

(2)Damage Records

- Do you have obligation to survey disaster damage and report it?√
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, DMC	
	Injured	CPP, DMC	
	Evacuees	CPP, DMC	
Private Sector	Building	CPP, DMC	
	Agriculture	Agriculture department	
	Fisheries	Fisheries department	
	Manufacture	×	
Public Sector	Road, Bridge	DMC	
	Dike	DMC	

	Public Utilities	DMC	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?× no record at union level.

#	1	2	3	4	5
Name	Sidor	Aila			
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level		9 ft higher than usual			
Total Rainfall					
Dead Missing Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

DMC: the signal was only 4. They did not have any idea that the water level would rise so high.

✓ Alert and Warning Stage:

CPP: tested instruments, more than half were defected. In some parts of the island, there are no connecting roads. It is difficult to reach with hand mike to those areas.



Picture: Channels in high tide; char Abdullah.

✓ Disaster Stage

CPP: Members were stuck, no way of communication.

✓ Rehabilitation Stage

CPP: Rescue bags are old. Out of 10-12 bag instruments, most of them do not work.

DMC: did not received relief as needed from the government.

✓ Evacuation rate:

3600 to other's houses, 8,000 to tin shed shelters, 1500 in cyclone shelters.

69%. Some household heads stayed inside their houses to protect their live stock and property.

✓ Causes of deaths:

1. Warning did not reach.
2. Stayed inside the house even after warning.

Warning was too late. 3 drowned in the channels. Roof of own house collapsed on one. 2 snake bites.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	Aila		1.30 hour	-Upper Agency	-Lower Agency	1-4	notice	VHF	speaking	1 distant warning	Oral warning	Battery, etc paid by volunteers
2	ongoing				-Upper Agency	-Lower Agency	4-7	notice	VHF	Speaking	Great danger, please evacuate to the shelter	MF warning	Water blocked communicat ion
3	passing				-Upper Agency	-Lower Agency	8-10	notice	VHF	speaking	siren	siren	Water blocked communicat ion
4													
5													
6													
7													
8													
9													
10													

12. Others

No polders to protect the char. No bridges to communicate outer parts of the island with Inner Island. Two wood made bridges are very risky.

No communication to come to the main land. Evacuation to the main land is not an option, as people will not evacuate during small warnings: 1-4. During higher warnings, it will be impossible to cross the rivers in small boats.

Due to carrying cost, and communication problems, no one wants to come and work in this place.

In 2010, 2011, 2012 (after Aila) abnormal high tide caused damages to the crops.

(The residents of char are actually living on government property, without any allocation or registration. The DC himself mentioned that the Char people are living there keeping in mind that these are disaster prone area. Government is not completely enthusiastic to take their responsibilities.)



Picture: meeting with CPP and DMC Char Abdullah.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
GOLAM SARWOR	UNION TEAM LEADER	CPP	01753524171
	Union Chairman	UP	
Other participants are incorporated in the attendant sheet.			

(3) Responding Date and Hour

07 / 04 / 2013

(4) Responding Place

UP and CPP office

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Char Alexander Union in Ramgoti Upozila, Laksmipur district.

(2) Organization Chart

- Could you provide the latest organization chart? if any.

UP Chairman > secretary > 9 elected members from 9 wards of the union, 3 female members > 10 village police.

- Which departments/units are in charge of disaster management in the latest organization chart? DMC and CPP members

(3) Number of Human Resources

Quorum: 6 Enrollments: 5

(4) Population and Number of Household

Year: 2011 Source: population census

Population:

Male: 20,453 Female: 20,282 Total: 40,735

Number of Household:

(5) Area

630 Square kilometer/Hectare

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			8
Number of Para			6 Mouja
Number of Polder			1 polder

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	30% sometimes same population is involved with both agriculture and fisheries.	Crops are damaged.
Fisheries	40%	Approximately 300 people go to deep sea. It takes 7 days to reach and 7 days to return. Total 14 days. Once there is a signal, it takes 3/4 days to occur a cyclone. Therefore, even if they receive the signals somehow, they cannot return to the shore before cyclones.
Manufacture	10% goes to brick field out of union	
Service	20%	

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
√Flood from large river	1970, 1985, 1991	Many people died at that time as people were less aware and less prepared. At that time, there was no effective early warning system in the country as mobile services were not as popular as present days.
Flash flood	×	
Inside water inundation	×	
√Cyclone	2007, 2009	5000 trees, 6000 houses, also, 2/3 deaths in this union. Crops were damaged by salty water inundation.

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
 (2) Could you list names of department/ division and other organizations in charge of disaster management?

- A: Disaster management committee G:
 B: Disaster Relief & Rehabilitation Office H:
 C: CPP I:
 D: NGO (Proshika, BRAC, Nigera kori etc) J:
 E: Private cooperation (elite) K:
 F: TNO/UP L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C	C	C,E	E,F,C	C,E	C,F	C, F,	F,D	C
Gram									
Para									
Individual									
I									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC: 31

CPP 12

Part-time: CPP (12*15)=180

(2) Office and Equipments

Sole use office room

(No union level logistics; use the upozila level CPP office)

DMC: no separate room, they use the union porishad office.

Equipments : ×Desks ×File cabinets
 ×Copy machine ×Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?

CPP: CPP team leaders call meeting after signal 4.

DMC: UNO calls meeting after signal 4

- Planning/Reviewing/Updating disaster management plan×

- Staff training

CPP: For last three years, no fund and therefore, no trainings.

DMC: supposed to have trainings through CPP, not done for last three years.

- Emergency drill at district/ Upazila/ Union level

CPP: Last done on October 2011

DMC: CPP used to arrange drills, which DMC participated; stopped for last 5 years.

- Equipment maintenance

CPP: Their workshop has been closed for last five years.

- Inter organizational/Stakeholder meeting

CPP: arranges meetings in each 5 months in schools, especially before October/November cyclone season.

- Drawing/Reviewing/Updating hazard map×

- Residents awareness campaign

Awareness campaign is supposed to be done once or twice every year by CPP.

Last campaign was done in 2011.

- Residents evacuation drill

CPP arranges the drill and DMC participates. Last one done in 2011.

6.3 Financial Status

Total financial budget for Char Alexander union for 2012-2013 financial year, allocated for Char Alexander union is BDT 12.9 million. No separate budget for disaster management, but the yearly budget includes rehabilitation, reconstruction of roads, polders, etc.

- Let us know the finance statements in normal time activities in the last three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

UP chairman provides a yearly amount of work required in his union and an approximate budget. This budget is reviewed by the UNO, then DC and then goes to the ministry for approval. The ministry then allocates certain amount of budget in that union.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

DMC: √ CPP: √

- Please describe gaps between the SOD and actual activities? If any.

CPP: Balur char is the most vulnerable area in Char Alexander. The polder is lost in river erosion. For this reason, during cyclones, safe evacuation and warning with hand mike in that region becomes difficult. They need good quality bicycles for unit team leaders. Most of their mega phones are damaged. Therefore, during emergency, they have to cover more than one unit with the limited

resources that they have. During emergency, mobile networks do not work. Their radios are all damaged. Therefore, the unit team leaders should have a radio to listen to the warnings. Also, they have no torch lights, boots, and raincoats for their own security.

DMC: people do not want to evacuate in fear of theft and losing their property. Also, they do not trust the signals. There is a small number of populations that will move to the cyclone shelters. But capacity of cyclone shelters is even smaller than that.

(1)Number of Human Resources

- How many staffs are mobilized?

DMC: 31 (officially 31, in emergency, all government staff are bound to follow government orders for disaster management.)

CPP: 180

- Do you have any regulations/ rules for mobilization of staffs?

During emergency, no holidays for DMC/ CPP.

(2)Office and Equipments

- Where is emergency head quarter office set up?

Same as normal time√ DC/ UNO/ PIO office

Others:

- Equipments :

CPP: no separate logistics for emergency; use upozila office and their instruments.

DMC: use normal office belongings (one desk).

- | | |
|---------------|-----------------|
| ×Desks | ×File cabinets |
| ×Copy machine | ×Computers |
| ×UPS | ×Internet |
| ×TV set | ×Radio receiver |

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?

CPP: from upozila CPP office, informed through mobile. Also, in emergency condition, signals are announced in TVs.

DMC: from UNO through mobile.

- Where do you send the warning to? What is communication method?

CPP: signals are sent to unit team leaders and they call their team to start announcements with hand mikes; communication through mobile phones.

DMC: information is sent through mobile to ward members to call meeting.

- How long does it take usually since receiving till sending information?

CPP: 20-25 Minutes

DMC: 12 hours, to complete the furthest ones, especially if they have to send messengers.

- Contents of warning : Which warning signal levels do you use?

11 levels √10 Levels 6 levels Others:

- Do you have any issues and problems regarding warning contents?

CPP: no problem for the members as they have been involved with CPP for long time, everyone understands the warning contents.

DMC: no suggestions.

- Do you have any issues and problems regarding communication method?

CPP/DMC: no problems.

- Do you have communication radio in the district/ upazila/ unit?

CPP: they used to have radios. Now, all are damaged.

DMC: No radios.

- How many percent does mobile phone cover in the area?

CPP: 70%, DMC: 100%

- How many percent does Mosque Microphone cover in the area?

CPP: total mosque: 80, among them 7/8 have no mikes. So, the coverage would be around 80%.

DMC: 100%.

- How many percent does commercial power supply cover?

CPP: 15%, DMC: 30%

- How many percent residents have solar power system?

CPP: 20%, DMC: 5%

- How many percent of residents have mobile phones with them?

CPP: 30 %, DMC: 100%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

For CPP: upozila office, DMC: UNO

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

CPP: received training on evacuation in 2011.

DMC: after signal 4, UNO calls meetings and guidance is provided in that meeting.

(2)Shelter Management

Emergency shelter management is done mostly by CPP volunteers. The volunteers show the way to the effected population. They use kerosene burner lamps (harikane), etc to light the shelter. They supply tube-well water in drums to the cyclone shelters.

(3)Rescue and Search

CPP: there are two first aid trained (1 male and 1 female) volunteers in each unit for rescue during emergency.

(4)Sufferer Help

CPP/DMC: it is not possible during cyclone. All rehabilitation work starts after the emergency period is over.

(5)Damage Survey

Damage survey is done separately by CPP and UP.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

CPP works unit wise and DMC works ward wise. No separate zoning according to position of cyclone shelters.

- evacuation route

Effected population is suggested to evacuate and take shelter in the nearest cyclone shelter.

- shelter capacity

Each shelter can accommodate 200-300 people (if they sit very close to each other). There are 7 cyclone shelters now in Char Alexander, of which one is in threat of river erosion.

- storage of food and water, and so on

No plan or storage.

(2)Current Condition of shelters

- Number of shelters : 9 Existing: 7 (1 at risk) Plan: ×
- Total capacity : 2100 Population ratio: 5.15%
- Solo use: × Multi use: All
- Other purposes of multiuse shelter
School, Moktob, Madrasa (Islamic school).
- Do you think the shelters have enough height for tidal wave/ flood? ✓

(3)Operation / Management

- Owner: School committee/Madrasa committee.
- Operation/ Management: CPP
- Cost burden: One cyclone shelter was refurbished by Red Crescent, others: no one in charge.

(4)Shelter Management Manual

- Do you have a shelter management manual? ×

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?

CPP: recorded in upozila level.

DMC: recorded and sent to UNO office; but neither UNO/PIO nor UP could provide one. In PIO's office, the D-form is dumped in a huge room; PIO does not know any whereabouts of the form. He said, it is somewhere in that room.

- Do you have obligation to record activities under state of emergency and report it?

√

(2) Damage Records

- Do you have obligation to survey disaster damage and report it? √
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP,UP	
	Evacuees	CPP,UP	
Private Sector	Building	CPP,UP	
	Agriculture	Agriculture dipartment	
	Fisheries	Fisheries dipartment	
	Manufacture	×	
Public Sector	Road, Bridge	UP	
	Dike	UP	
	Public Utilities	UP	
Generalization, Statistics		UP	

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below? ×

CPP: upozila level.

DMC: no record

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

CPP: No radios. Therefore, some of the unit leaders were not informed of the situation initially.

✓ Alert and Warning Stage:

CPP: Hand mikes/Mega phones were not working. Some team leaders shared mega phones with other units. There were no bicycles for CPP use. Some volunteers had to walk to inform team members. From UNO office, they suggested us to beat the drums and continue warning if the hand mikes don't work.

✓ Disaster Stage

CPP: It was raining the whole day. So, the roads were slippery. Later, volunteers were stuck in their position. They do not have any modernized vehicles like gun boats or motor cycles that they could have used.

✓ Rehabilitation Stage

DMC: government relief was not adequate according to the needs.

CPP: all the channels were full. So, the population stuck in cyclone shelters could not go home. Most of the cyclone shelters (except the Red Crescent one) has toilets in downstairs, which cannot be used as long as the flood water goes down. That leaves them with almost no sanitation facility.

- How many percent of residents did evacuate?

25-30% people including schools, mosques, friend's/ relative's houses, etc.

- What were the causes of deaths? Please select below:

1. Warning did not deliver to the residents.
2. They stayed in house even after the warning.

(please describe)

2 people died during Aila (actual casualties are much more; according to the UP, they count only the dead bodies. Therefore, the bodies that are washed away are not counted and their families are not even eligible to get relief for this loss.

Much more fishes can be caught during cyclones. Therefore, even if they hear the warning, they go out for fishing.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level -11 Level - 8-10 Level -6 Level	Type of Warning -Notice -Recommendation -Order	Communication Method		Contents of Information	Activities	Issues	
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email				
1					-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

12. Others

Most of the people ignore warnings because the meteorological department cannot predict the course of cyclones in time. For example, there were cyclones that previously hit Philippines, Myanmar, India, but initially, there were 1-4 signals in coastal areas of Bangladesh. Later in the news, they stated that the cyclone has now moved to another direction. Actual cyclones come after 2/4 or more year gaps. Therefore, people do not take the initial warnings seriously.

Damage is calculated only once after disaster period, to allocate funds in the region.

Pitures:



Pictures: River erosion; Char alexander

Data Collection Survey on Early Warning and Disaster Information System in Costal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Shorafot Islam	Deputy Director	CPP	01712026302

(3) Responding Date and Hour

25 / 04 / 2013

(4) Responding Place

DC Office Noakhali

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

DC office Noakhali

(2) Organization Chart

- Could you provide the latest organization chart? if any.

CPP controls Laksmipur, Feni and Noakhali from this regional HQ.

- Which departments/units are in charge of disaster management in the latest organization chart?

Disaster Management department, Public health, Health, Local Government, Fisheries, Environment and forest, Agriculture etc

DMIC: the DRRO mentioned the Mega phone siren system as DMIC but there are no DMIC other than that.

CDMP: They have megaphone siren system in the DRRO's office, and UNO office of Shubarna Char, Hatia and Companygonj upozila. In district level, they have operating system and antenna and the same structure in upozila level, which includes automatic sirens that can be operated from district level.

CPP: CPP has a zonal office in Noakhali. From which they control Noakhali, Feni and Lakshmipur.

(3)Number of Human Resources

Quorum: Enrollment:

(4)Population and Number of Household

Year: Source:

Population:

Male: Female: Total: 31,08,083

Number of Household:

(5)Area

3,685.87 $\sqrt{\text{Square kilometer/Hectare}}$

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila	9		
Number of Union	92		
Number of Gram	-		
Number of Para	-		
Number of Polder	-		

-No information available in DC office.

(7)Outline of Industry

- Population by industry

- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	65-70%	
Fisheries	5,000 Fishermen registered with DC office, actual number will be more.	
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Map of Noakhali district.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

There is a weather station and water level observation meter in Hatia, but the information are delivered to Dhaka. They have no communication with the local governing bodies.



Pictures: Antenna for megaphone siren system and DRRO demonstrating use of megaphone in Noakhali.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	2009, 2010	24 deaths in Hatia upozila



Pictures: Meeting with DMC (left) at DC office and CPP zonal office Noakhali.

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

- A: Disaster management committee G:
- B: Disaster Relief & Rehabilitation Office H:
- C: CPP I:
- D: LGED J:
- E: Shelter management committee K:
- F: L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District	A, C	A, C	A, E	C	A	A, C		A	A, C
Upazila									
Union									
Gram									
Para									
Individual									
1									
CPP									

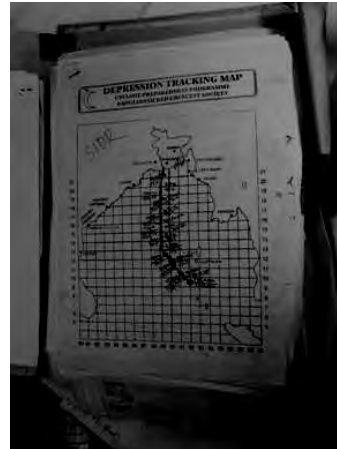
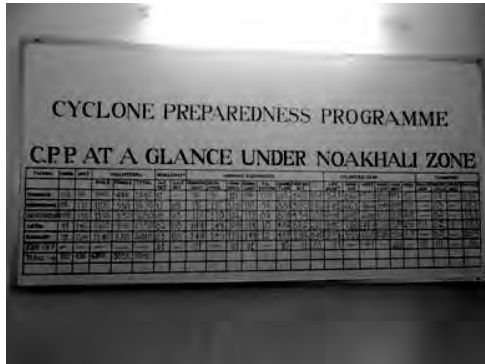
6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC: 42, CPP: 616

Part-time: CPP: 616*15



Pictures: CPP instruments and units under Noakhali Zone and CPP record of Sidor tracking map in Noakhali Zoanal office.



Picture: Demonstration of using HF set in CPP zonal office Noakhali.

(2) Office and Equipments

Sole use office room DMC use DC office rooms,

CPP has own zonal office, the rent of this office is paid from HQ. they have computers and HF receiver in their office.

Equipments : √Desks √File cabinets
 Copy machine √Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? ✓
- Planning/Reviewing/Updating disaster management plan

DMC: The standing order for Disaster management is circulated from government. Therefore, only government can change or review the disaster management plan centrally.

- Staff training

DMC: in 2012, DRRO received a 5 day training, PIOs are receiving continuous trainings.

CPP: CPP officers get regular training, but the training for volunteers depend on fund availability. The volunteers are supposed to get at least one yearly training, but that can be rarely arranged. For example, in Hatia and Nizhum Dwip, the CPP volunteers have not received any trainings for last 3-4 years.

- Emergency drill at district/ Upazila/ Union level

CPP: Project and fund based

- Equipment maintenance

CPP: shortage of equipments are reported to HQ and then only they are in charge of procure and purchasing them.

- Inter organizational/Stakeholder meeting

CPP: The meetings are regular up to upozilas. Union meetings are not regular due to fund crisis.

DMC: Regular Union level meetings,

- Drawing/Reviewing/Updating hazard map

DMC: Union level maps

CPP: Red Crescent has shelter based Hazard maps. During training they discuss the locations that are more vulnerable in each area. As all the volunteers are not literate, may be they cannot point it on a map, but they surely know the vulnerable areas.

- Residents awareness campaign
- Residents evacuation drill

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

CPP: No funds are available in district level; funds are in the HQ.

DMC: DRRO always have 50 metric tons of rice.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

- Please describe gaps between the SOD and actual activities? If any.

DMC: Road communication is the biggest problem during disasters. Trees fall, water damages the roads, and most of all, the vulnerable areas are all in coastal area. Therefore, these areas cannot be reached without speed boats or rescue boats.

(1) Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs?

(2) Office and Equipments

- Where is emergency head quarter office set up?

Same as normal time DC/ UNO/ PIO office

Others: DMC has fixed land line and personal mobile phones for communication.

CPP has the following instruments:

- Equipments : Desks File cabinets
 Copy machine Computers
 UPS Internet
 TV set Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
DMC: Dhaka weather forecast; phone, fax, email.
CPP: Dhaka HQ via HF
- Where do you send the warning to? What is communication method?
DMC: To UNO; phone, fax, email
CPP: Upozila; HF
- How long does it take usually since receiving till sending information?
DMC: 5-10 minutes
CPP: Upozilas get the same message at same time through their HF.
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
DRRO: 4,5,6 are same signals depending on left/right side of the cyclone. It creates confusion to common people.
- Do you have any issues and problems regarding communication method?
CPP: Selected Upozilas have HF sets or VHF's in unions. Receiving information through HF/ VHF is uninterrupted during cyclones, but the stations that do not have any radio communication are problematic to communicate. They have to send volunteers physically and they have issues to be addressed.
- Do you have communication radio in the district/ upazila/ unit?
DMC: ×
CPP: √
- How many percent does mobile phone cover in the area?
Nizhum Dwip is out of of mobile network. The rest have more or less coverage.
- How many percent does Mosque Microphone cover in the area?
100% in urban and 50% in rural area
- 40-50% is covered by commercial power supply.
- 10% residents have solar power.
- TV network: 100%, FM radio: 00%, AM radio: 100%

- Almost 100% families have at least one mobile phone in the family.
- 25-30% residents have TV in the area.
- Less than 5% residents listen to radio.

Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
DMC: Weather forecast; fax
CPP: meteorological department, automatic warning during signals.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

Pregnant women, elderly, female and children first and also, vulnerable areas are first priority. Village guards of union porishad also assist CPP volunteers during evacuation.

(2)Shelter Management

During various projects, the shelter management committee gets financial support, but no separate maintenance support.

(3)Rescue and Search

(4)Sufferer Help

Tube wells are repaired by public health, the DC office has adequate storage of water purification tablets and saline.

(5)Damage Survey

Damage surveys are done in collaboration with CPP and union chairmen.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter

Placements of cyclone shelters depend on damages done by recent disasters in the area. For example, as Chittagong and Cox's bazaar were immensely damaged during 1991 cyclone, many cyclone shelters were constructed in those regions after that attack. On the other hand, as Khulna-Shatkhira region was more affected during Aila and Sidor, recent cyclone shelters are mostly constructed in those areas.

- evacuation route

Based on practical knowledge

- shelter capacity

Red Crescent shelters hold 500, Saudi Shelters do 1,000-1500 and JICA shelters hold around 2,000 people during disasters.

- storage of food and water, and so on

Usually, shelters do not stock food. After signal 4, DMC meetings decide if there are any needs of food supply or not. Also, they inform local merchandisers not to sale big lots of food until further notice.

(2)Current Condition of shelters

- Number of shelters : 244 Existing: 240 Plan:×
- Total capacity : 170,800 Population ratio: 5.4%
- Solo use: 20% Multi use
- Other purposes of multiuse shelter Primary schools, madrasas, etc.
- Do you think the shelters have enough height for tidal wave/ flood?√

(3)Operation / Management

- Owner
Shelter committee
- Operation/ Management
Shelter committee
- Cost burden
Donors

(4)Shelter Management Manual

- Do you have a shelter management manual?

9. Records

(1)Record of Activities

- Do you have obligation to record normal time activities and report it?

Meeting resolutions

- Do you have obligation to record activities under state of emergency and report it? ✓

(2)Damage Records

- Do you have obligation to survey disaster damage and report it?
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	-	
Private Sector	Building	CPP, UP	
	Agriculture	CPP, UP	
	Fisheries	CPP, UP	
	Manufacture	CPP, UP	
Public Sector	Road, Bridge	CPP, UP	
	Dike	CPP, UP	
	Public Utilities	CPP, UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	Aila	Sidor			
Type	Cyclone	Cyclone			
Start Date	23.05.2009	11.11.07			
End Date	25.05.2009	15.11.07			
Maximum Wind Velocity	90 km	200-220			
Highest Sea Level	6-8 ft	15-20 ft			
Total Rainfall					
Dead Missing	24				
Injured	255				
Total Collapse Houses	4,109				
Half Collapse Houses	7,747				
Total Collapse Dike	19 km				
Half Collapse Dike	58.2 km				
Inundation Area	1,280 sq km				
Inundation Depth					
Agriculture Damage	1,407 acre				
Fisheries Damage	72 fishing boats				
Economic Losses	BDT 1,35,91,000				
Others					

This photograph shows a document page with a table. The table has multiple columns and rows of data, though the text is mostly illegible. There are handwritten notes in Bengali at the bottom of the page, including the date '১০/১০/১২' (10/10/12) and the name 'স্বপ্না' (Sapna).

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Pictures: D-forms page 1,2,3 and 4 from Noakhali DRRO records.

Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: 10 oct 2012
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

DMC: No signals

✓ Alert and Warning Stage:

DMC: DMC can start warning only after signal 4, but that day, the signal was only 2.

✓ Disaster Stage

Almost in each house, one person stayed at home to protect their property.

✓ Rehabilitation Stage

Water level was too high compared to the signal.

20-30% residents evacuated to the shelters.

According to the DC, 18-20 people died that day as the water level was 12 ft high. And there were no signals that day.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activitie s	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeake r -Face to Face	-Speaking -Fax -Email			
1	Approaching	23. 05. 200 9	3pm		-Upper Agency -Lower Agency -Other Agency -NGOs -Resident s -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Resident s -Public Media	1-3	-Notice -Recommendati on -Order			Distance, latitude, wind velocity, Fishing boats were advised to come close to the shore.		Observation at 3 pm, massage delivered at 6 am
2	Ongoing	25. 05. 200 9	3am				6				Advised to reach shelter immediately		By the time of delivering massage, They were already affected. Aila washed away roads that was constructed only one month ago. The cyclone attacked during high tide, for this reason, water level was higher
3	Passing	25. 05. 200 9	1. 35p m				7				Will cross this afternoon		

11. Others

CPP have volunteers only in three coastal upozilas of Noakhali; Hatia, Shubarna char and Companigonj. CPP works in collaboration with government and Red Crescent.

As we raised the issues of election process and maximum age until which a person can be a volunteer, the CPP DD answered that: CPP unit distribution is a continuous process. Volunteers are supposed to go through elections in every 3 years, but for many reasons the process has been irregular. The volunteers has to join at the age of 18-30 and they can carry on until the age of 55.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
ATM Mohiuddin	Upozila team leader	CPP	01820552154

(3) Responding Date and Hour

21 and 22 / 04 / 2013

(4) Responding Place

CPP / UNO office Hatia upozila, Noakhali district

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Hatia upozila, Noakhali district

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

35 Government organizations in the upozila, no DMIC.

(3) Number of Human Resources

Quorum:

Enrollment:

(4) Population and Number of Household

Year:

Source:

Population:

Male:

Female:

Total: 3,48,653

Number of Household:

(5) Area

1500 \sqrt Square kilometer/Hectare

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		12	
Number of Gram		No data	
Number of Para			
Number of Polder		2 polders	

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	95% part time, both agriculture and fisheries	Crops, life risk
Fisheries		
Manufacture		
Service	5%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Map of Hatia upozila

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

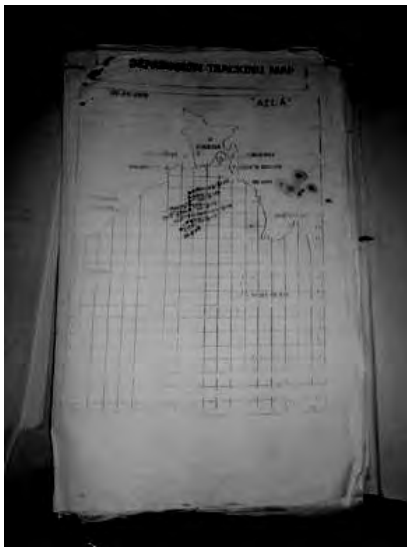
DMC: As Hatia is in a special geographical position; an isolated island. It requires union wise local communication system.



Picture: Hatia Water level measuring meter



Pictures (from top left): CPP VHF set, Hatia weather station monthly report format, barometer and wind spin measurement instruments.



Pictures: Cyclone tracking map of Aila in CPP office Hatia and meeting with CPP Hatia

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation	Almost every year, especially during September and November	Embankments are low, they need to be raised. Salt water damages crops and spread diseases.
Cyclone	1991, 1998, 2009, 2012,	



Picture: Meeting with DMC, Hatia.

5. Department/ Division in charge Disaster Management

(1)Department/ division and other organizations in charge of disaster management

(2)Could you list names of department/ division and other organizations in charge of disaster management?

- A: Disaster management committee G:
- B: Disaster Relief & Rehabilitation Office H:
- C: CPP I:
- D: NGO (DIP, RIK, HEED, Hashi) J:
- E: LGED K:
- F: L:

(3)Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	A, C	A, C	C, E	A, C	A, D	A, C	A, E	A	A, C
Union									
Gram									
Para									
Individual									
I									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP: 144 units/ DMC: 49

Part-time: 144*15

(2) Office and Equipments

Sole use office room ✓

Equipments : ✓ Desks ✓ File cabinets
 × Copy machine × Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan? ✓
- Planning/Reviewing/Updating disaster management plan ×
- Staff training

CPP: 2011; first aid and rescue training for 2 people in each unit from the ministry of disaster management.

DMC: 2012; UNO received training from BRAC University funded by CDMP project.

- Emergency drill at district/ Upazila/ Union level

CPP: 2005/2006 in front of school, funded by RC.

DMC: 1 year ago, in upozila porishad.

- Equipment maintenance

CPP: They receive batteries twice every year; 6/8 for each team leader and 10 batteries to union team leader. The damaged equipments are sent to Dhaka.

- Inter organizational/Stakeholder meeting

CPP: 3 monthly meetings are scheduled, but for last 10 years there is no budget.

DMC: 3 monthly.

- Drawing/Reviewing/Updating hazard map ×
- Residents awareness campaign: last 2008
- Residents evacuation drill: 6/7 years ago.

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Budget: financial year 2012-2013: BDT 1, 20, 00,000

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? ✓
- Please describe gaps between the SOD and actual activities? If any.

DMC: The DMC has no equipments in union level. They hire mikes and in this way they can cover only 50% of the population as connecting roads are badly damaged.

CPP: during Sidor, in broad day light, there was signal. The sky was clear. So, the residents did not listen to the warning. Then later they had to announce that the cyclone moved towards another direction. This kind of false alarm will cause the residents to lose seriousness about alarms. Also, CPP instruments are all damaged; they need radio, communication vehicle, raincoats, torch lights, etc.

(1)Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs? ×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time ✓ DC/ UNO/ PIO office
Others:
- Equipments : ✓Desks ✓File cabinets
×Copy machine ×Computers
×UPS ×Internet
×TV set ✓Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
CPP: Dhaka HQ: HF, DMC: DC office: fax/mobile phone call.
DMC claimed that UNO gets the information faster than CPP chain.
- Where do you send the warning to? What is communication method?
CPP: union team leader: through mobile/ written signal hand to hand delivery.
DMC: Union chairman, mobile
- How long does it take usually since receiving till sending information?
DMC: 1 hour within Hatia, 4-5 hours to Nizhum Dwip.
CPP: 1 hour within Hatia but the unions Horni and Shanondi will take 4-5 hours.
- Contents of warning : Which warning signal levels do you use?
11 levels ✓10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
CPP: radio signals have two different levels but we use only the sea port signals, it is ok for us.
DMC: until signal 4-5 people do not care but after 6, they become worried.
- Do you have any issues and problems regarding communication method?
DMC: this area has a weather station, but we do not have any communication with them. Therefore, we need rather local observations rather than signals from Dhaka.
CPP: As mobile signal is very weak, we are still dependent on hand to hand information delivery. So, we need vehicles: ambulance, speed boat, gunboat, etc.

- Do you have communication radio in the district/ upazila/ unit?
CPP: received 144 radios in 1992. Now all are damaged.
- How many percent does mobile phone cover in the area?
40% network: grameen; weak network.
- How many percent does Mosque Microphone cover in the area?
60% mosques have mikes, coverage is 25-30%
- 2% commercial power supply
- 10-15% solar system
- TV network: 5%, 0% FM radio, 60% AM radio
- 45% residents have mobile phones
- On an average, 20% residents have TV.
- 5-7% residents listen to radio, others watch TV in the market.

(2) Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
DMC: DC/ CPP: Dhaka HQ

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1) Evacuation Guidance

CPP: Announcements for evacuation and move to the nearest cyclone shelters.

DMC: Out of polder people are first priority.

(2) Shelter Management

CPP: Team leaders are in charge; they take the keys from school committee during emergency.

DMC: arrange dry food, then khichuri as a meal for the evacuees.

(3) Rescue and Search

DMC: they move in small boats to search and rescue people.

CPP: in each unit, there are separate people for search: 3 and rescue: 3.

(4) Sufferer Help

DMC: Help comes from DC according to needs assessments sent from the UNO

CPP: Only RC funded relief.

(5)Damage Survey

DMC: initially one survey, and then one after 7 days.

CPP: Unit team leaders visit door to door to do damage survey.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

- zoning for each evacuation shelter

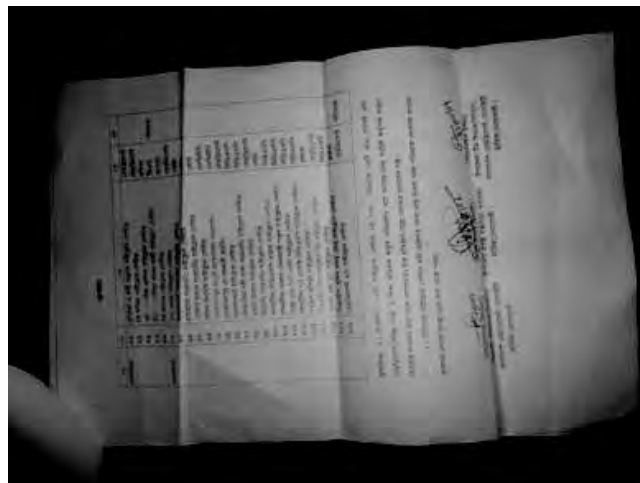
Union wise/ ward wise nearest cyclone shelters; no proper zoning.

- evacuation route

Depends on road condition; some are damaged.

- shelter capacity: 500-1,000 each

- Storage of food and water, and so on: one CDSP cyclone shelter has water reserve system, but none of the others have such facility.



Picture: list of cyclone shelters in Hatia.

(2)Current Condition of shelters

- Number of shelters : DMC: 117 CPP: 108 Existing: 97 Plan: 5
- Total capacity : 67,900 Population ratio 19.47%
- Solo use: 4/5 Multi use 92
- Other purposes of multiuse shelter: School, rest house, etc
- Do you think the shelters have enough height for tidal wave/ flood?√

(3)Operation / Management

- Owner
School committee, UP, CPP UTL, etc
- Operation/ Management
School committee
- Cost burden
Upozila HQ

(4)Shelter Management Manual

- Do you have a shelter management manual?×

9. Records

(1)Record of Activities

- Do you have obligation to record normal time activities and report it?
Meeting resolutions are recorded.
- Do you have obligation to record activities under state of emergency and report it? √

(2)Damage Records

- Do you have obligation to survey disaster damage and report it?
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	-	No record
Private Sector	Building	CPP, UP	
	Agriculture	CPP, UP	
	Fisheries	CPP. UP	
	Manufacture	-	No record
Public Sector	Road, Bridge	LGED	
	Dike	LGED	
	Public Utilities	LGED	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

New PIO do not have past records.

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

CPP: no budget

✓ Alert and Warning Stage:

CPP: most of the CPP instruments are damaged, no radio for communication, many volunteers do not have mobile phones, need vehicles, boats, raincoats, torch light, etc.

DMC: water level crossed the polders and disrupted communication.

✓ Disaster Stage

CPP: The number of cyclone shelters is not enough. The main problem is that people do not want to move out of their houses as long as they don't see water inside their house. So, when they start, it is already too late.

✓ Rehabilitation Stage

DMC: no coordination between government and NGOs. Otherwise, the relief would have been adequate.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	24.05.09		1 hour	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	1-3	Notice	HF	Speaking	Distance Position Wind velocity	Flag Verbal warning	-
2	Ongoing	25.05.09		1 hour			4-7	Advice	HF	Speaking	All boats are requested to remain in Shore.	Flag Meeting	-
3	Passing	25.05.09		2 hour			7	Advice	HF	Speaking	Name of districts Likely to intensify and cross west Bengal and Khulna coast by noon.	Warnings	-
4													
5													
6													
7													
8													

9																								
10																								
11																								
12																								
13																								

12. Others

There are two isolated char areas in Hatia upozila. One is Nizhum Dwip and the other one is Boyar Char. There are two unions in Boyar Char: Ghorni and Shanondi. There are 15,000 residents in Ghorni and 35,000 in Shanondi. Shanondi has only one Cyclone shelter. CPP has 19 units in each union, but no instruments or vehicles.

Also, height of the polders is not enough. Polder was constructed in 1961, repaired in 1991, 50% has already been washed in river erosion. The Hatia Island is breaking from the north and reconstructing to the south.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
S M Gias Uddin	Union team leader	CPP	01725369857
Nizam uddin	Chairman in charge	UP	01715993831

(3) Responding Date and Hour

_____ 20 / 04 / 2013

(4) Responding Place

UP office Jahaj Mara Union

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Jahaj Mara Union Porishad Hatia upozila Noakhali district

(2) Organization Chart

- Could you provide the latest organization chart? if any.
- Which departments/units are in charge of disaster management in the latest organization chart?

Chairman in charge > Secretary > 9 Ward members and 3 female members > 9 village guard and one head guard.

(3)Number of Human Resources: no DMIC

Quorum:

Enrollment:

(4)Population and Number of Household

Year: 2010

Source: UP calculation

Population:

Male: 63,000

Female: 62,000

Total: 1,25,000

Number of Household:

(5)Area

105 \sqrt Square kilometer/Hectare

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			18
Number of Para			3 Mouza
Number of Polder			2

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	45%	Financial lose, crops damaged during disaster
Fisheries	45%	Life risk, financial lose-boats sink in water during storm
Manufacture	4 brick fields 500 people	Household damages
Service	10%	

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Hazard map of Jahajmara union.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

It would be good to have a local hydrological observation station. So that people can know in advance if water level is high.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation	Almost every year	Crops and roads are damaged
Cyclone	91, 2007, 2009, 2012	Life risk for human, livestock and also, cause household damages.

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: Danida and LGED funded project

B: Disaster Relief & Rehabilitation Office H:

C: CPP I:

D: NGOs (BRAC, DIP, DANIDA, ASHA) J:

E: UP K:

F: Red Crescent committee L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C	C	C	C	A, D	A, C	A, E, G	A, E	C
Gram									
Para									
Individual									
I									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP: 15, DMC: 27 Part-time: 225

(2) Office and Equipments

Sole use office room CPP. DMC: uses UP office

Equipments : √Desks ×File cabinets

 ×Copy machine ×Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?√
- Planning/Reviewing/Updating disaster management plan

CPP: 2012 November

- Staff training

CPP: 2012 November, Red Crescent organized a special 2 day training about 5 groups of the CPP units. Next in May 2013.

DMC: 6 months ago, from upozila porishad.

- Emergency drill at district/ Upazila/ Union level

CPP: 2009 in school field

- Equipment maintenance

CPP: damaged equipments are returned to upozila CPP office.

- Inter organizational/Stakeholder meeting

CPP: last in 2012 November, school based. CPP takes classes for 5 minutes.

DMC works in collaboration.

- Drawing/Reviewing/Updating hazard map

CPP: after 1991, they made one and gave it to upozila office.

DMC: DIP unnayan shangstha provided one map in 2008.

- Residents awareness campaign

CPP: 2012 May

DMC: 6 months ago from upozila porishad.

- Residents evacuation drill

CPP: 2012, in front of high school; CPP-school coordination.

DMC: 2 months ago.

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

Last financial year total budget: 1.4 million.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. According to the UP members, there is a needs assessment report, based on that report; DC allocates the budget through UNO.

8. Activities under State of Emergency

8.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?
- Please describe gaps between the SOD and actual activities? If any.

CPP: No communication vehicle, not even bicycle or motor cycle. Mega phones were out of order; CPP used mosque mikes to cover some areas. No rain coats, two Saudi government funded shelters that are used as schools, did not allow them to go inside, and then they moved into the nearby police station.

DMC: roads are blocked during rain or cyclone. People do not evacuate on time, but during disasters, they cannot escape.

(1) Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs?

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time√ DC/ UNO/ PIO office
Others: DMC: personal mobile communication.
- Equipments : √Desks ×File cabinets
×Copy machine ×Computers
×UPS ×Internet
×TV set ×Radio receiver

8.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
CPP: Upozila CPP office, Mobile.
DMC: Upozila, mobile/ issue one emergency letter.
- Where do you send the warning to? What is communication method?
CPP: CPP unit leaders through mobile.
DMC: to ward members through mobile.
- How long does it take usually since receiving till sending information?
CPP: 10 minutes to unit team leaders, 2 hours to volunteers, 1-1.5 to nearby community but 4-5 hours to the farthest points.
DMCL 1.5-2 hours.
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
DMC: need regional names in the warnings.
- Do you have any issues and problems regarding communication method?
CPP: Need 3 big sirens to cover the whole area.
DMC: wireless sets are better for communication during disasters as the mobile phone networks are disruptive during disasters.
- Do you have communication radio in the district/ upazila/ unit?
× all damaged.
- How many percent does mobile phone cover in the area?
80%

9. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter

10% population lives out of polders. There is only one cpp unit out of polder.

- evacuation route

Walk to nearest cyclone shelters.

- shelter capacity

around 5% of total population.

- storage of food and water, and so on ×

(2)Current Condition of shelters

- Number of shelters : 9 Existing: 7 Plan: ×
- Total capacity : 8,000 Population ratio: 6.4%
- Solo use: 4 Multi use 4
- Other purposes of multiuse shelter: School, 1 RC center, 1 HEED Bangladesh office.
- Do you think the shelters have enough height for tidal wave/ flood? √

(3)Operation / Management

- Owner
 - Donors of RC, HEED CS and School Committee.
- Operation/ Management
 - Shelter management committee, UP members and neighbors.
- Cost burden
 - Donors, Upozila porishad and education ministry for the cyclone shelters that are used as schools.

(4)Shelter Management Manual

- Do you have a shelter management manual? ×

10. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it? ×
- Do you have obligation to record activities under state of emergency and report it? √

(2) Damage Records

- Do you have obligation to survey disaster damage and report it? √
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	-	No record
	Evacuees	CPP	
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	×	No report
Public Sector	Road, Bridge	LGED	
	Dike	LGED	
	Public Utilities	LGED, UP	
Generalization, Statistics			



Picture: meeting with CPP and DMC Jahaj mara union.

Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?
- NO record in union level.

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:×
- ✓ Alert and Warning Stage:

CPP: It was raining during warning, had no rain coats, mega phones damaged no vehicles.

DMC: during Aila, the sky was very clear. So, people thought the warning is false. They did not take it seriously.

- ✓ Disaster Stage

CPP: Some schools did not allow CPP to take shelter inside. The place where they finally moved had no food or water storage.

DMC: Salt water inundation caused damage to earth embankments and also, many trees fell on the roads. It caused problem in communication.

- ✓ Rehabilitation Stage

CPP: Do not have any food, water or medication stock.

DMC: relief comes very late to remote areas.

- ✓ 5% residents evacuated to the shelters.
- ✓ 3 deaths on their way to evacuation; started late.



Picture: Community correspondent Jahaj Mara.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching			1 hour	Upozilla	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	1-3	Notice	VHF	Speaker	Distance Position Wind velocity Depression in bay of Bengal, can get worse	Flag Verbal warning	Rain
2	Ongoing			1 hour	Upozilla	Units	4-7	Order	VHF	Speaker	Distance Position Wind velocity Depression in bay of Bengal, can get stronger take shelter	Flag Called unit team leaders announcements in MF	Leaders were stuck No mobile network
3	Passing			2-3 hours	Upozilla	Units	4-7	Order	VHF	Speaker	Distance Position Wind velocity Siren	Flag siren	Volunteer were stuck.
4													
5													
6													
7													

12. Others

The geographical location of this union is vulnerable. It has the river Meghna to east and west and the bay of Bengal to the south.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.

(3) Responding Date and Hour

22 / 04 / 2013

(4) Responding Place

Nizhum Dwip

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Nizhum Dwip union porishad, Hatia Upozila, Noakhali district.

(2) Organization Chart

- Could you provide the latest organization chart? if any.

Chairman>secretary>9 ward members, 3 female members>village guards

- Which departments/units are in charge of disaster management in the latest organization chart?

Union porishad members, school teachers, religious leaders, CPP, etc.

(3)Number of Human Resources

Quorum: Enrollment:

No DMIC, but the union have computer, printer, scanner, laptop, camera and internet connection facility from Digital Bangladesh project (no operator).

(4)Population and Number of Household

Year:2013 Source: up members

Population:

Male:45% Female: 55% Total: according to census

18,000 but the members claimed that the present population is 40,000.

Number of Household:

(5)Area

81.01 √Square kilometer/Hectare

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			9
Number of Para			2 Moujas
Number of Polder			1 (2 km under construction)

(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	40% part time	Crops and live stock are damaged.
Fisheries	80%	Life risk. Boats sink, etc.
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Map of Nizhum Dwip.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

During Aila, the signal was only 4 but the water level reached very high. A large portion of the area goes under water during high tide. Considering the special circumstances of the area, a local water level measurement and forecast station would be very useful for the residents.



Picture: VHF set in Nizhum dwip CPP office.

Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
√Cyclone	1960, 1970, 1991, 2009, 2012	Deaths, livestock, crops, household, etc.

4. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G:
 B: Disaster Relief & Rehabilitation Office H:
 C: CPP I:
 D: Red Crescent society (only RC centers) J:
 E: Danida project K:
 F: NGO (Dip, ASA, Hashi, etc) L:

- (3) Duty of each organization
- Lines show hierarchies of governmental agencies and columns show disaster management activities.
- Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C	A,C	C,D	A,C	A,D	A,C	A,E	A,F	C
Gram									
Para									
Individual									
1									
CPP									

5. Normal Time Activities

5.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC: 27/ CPP: 6 Part-time: 90

(2) Office and Equipments

Sole use office room × CPP: share one room with police station.

Equipments : ×Desks ×File cabinets
 ×Copy machine ×Computers

5.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?√
- Planning/Reviewing/Updating disaster management plan

CPP: meeting after signal 3 and work distribution.

- Staff training

CPP: in 2012, there was training with CPP and government collaboration for all CPP members; 8 days. Union team leader had two trainings: first aid training in 1992 and another one by NGO DIP in 1988.

- Emergency drill at district/ Upazila/ Union level

2012, April; in front of school building

- Equipment maintenance

Damaged equipments are sent back to the office, but they never get them back.

- Inter organizational/Stakeholder meeting

DMC: every two months.

CPP: internal meeting every two/ three months.

- Drawing/Reviewing/Updating hazard map ×
- Residents awareness campaign

Yearly

- Residents evacuation drill

Three times in this JICA funded shelter; last in 2012. In 1996, one of these drills was broadcasted in TV.

5.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

From CDMP Project, BDT 7.4 million for ring polders to prevent salt water inundation, it is an ongoing project.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

6. Activities under State of Emergency

6.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?√
- Please describe gaps between the SOD and actual activities? If any.

DMC: During Aila, there was no warning, we had to go on top of the buildings to get reception.

CPP: most of the mikes were damaged, also, no vehicle for communication.

(1) Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs? ×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time√ DC/ UNO/ PIO office
Others: no electricity.
- Equipments : ×Desks ×File cabinets
 ×Copy machine ×Computers
 ×UPS ×Internet
 ×TV set √Radio receiver

6.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
CPP: Upozila office, VHF
DMC: Upozila porishad
- Where do you send the warning to? What is communication method?
CPP: Unit team leaders, by mobile phone. Alos, one person on a bicycle to cover the rest of the leaders that are out of network.
DMC: ward members through mobile phone.
- How long does it take usually since receiving till sending information?
1-2 hours
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
×
- Do you have any issues and problems regarding communication method?
DMC: As mobile signal is very weak in this char, we have no mobile towers. At the moment, we need a mobile tower more than anything. Until then, wireless handsets can maintain communication but now we have none.
CPP: need vehicles, at least bicycles. Also, rescue boats and motorcycles can be useful.
- Do you have communication radio in the district/ upazila/ unit?
CPP: 2 in working condition.

- How many percent does mobile phone cover in the area?
Very weak, 25%
- How many percent does Mosque Microphone cover in the area?

15 mosques all have mikes, coverage 50%

- No commercial power supply
- 5-10% residents use solar power
- No TV network
- No FM radio network
- 100% AM radio network
- CPP: 30% residents have mobile phones/ DMC: 70%
- Very few private TV, only in the market
- CPP: 2-3% people listen to radio/ DMC: 10%

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?
UNO

6.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

CPP: pregnant and elderly first, then the others.

DMC : In union meeting, the chairman briefs to take a boat to rescue residents in trouble.

(2)Shelter Management

CPP: One CDSP and one Red Crescent cyclone shelter has water reserve facility. The rest of the cyclone shelters have no food or water storage facility.

DMC: Shelter management committee is a locally elected body.

(3)Rescue and Search

CPP: units start movement after cyclone. They go door to door and talk to people and that is how they know that the residents need support or not.

DMC: DMC usually use local boats to help and support search and rescue after any disaster,

(4)Sufferer Help

Help comes from DC office through UNO based on the damage report sent from the union level.

(5) Damage Survey

Eye survey first and primary report is sent to UNO. Then the final report is sent within 5-7 days.

(6) Other

6.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:



Pictures: Meetings with Nizhum dwip DMC and CPP.

Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?
 - zoning for each evacuation shelter

Ward 9, 7, 4 has no cyclone shelters, others have one or two each.

- evacuation route

Nearest communication roads

- shelter capacity: 22%
- Storage of food and water, and so on: no food storage facility, two cyclone shelters have water storage facility. One of these shelters were visited by the team.

(2) Current Condition of shelters

- Number of shelters : 10 Existing: 8 Plan: ×
- Total capacity : 4,000 Population ratio: 22%
- Solo use: 2 Multi use 6
- Other purposes of multiuse shelter: Police station, 2 Schools, UP office, rest house, etc.
- Do you think the shelters have enough height for tidal wave/ flood? ✓



Picture: Project CDSF funded cyclone shelter in Nizhum Dwip.

(3) Operation / Management

- Owner
School/ RC committee, etc
- Operation/ Management
School committee, RC, shelter management committee, etc
- Cost burden
RC does RC shelter repairing works; others are not repaired for long time.

(4) Shelter Management Manual

- Do you have a shelter management manual? ×

7. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
Meeting resolutions are recorded.

- Do you have obligation to record activities under state of emergency and report it? ✓

(2) Damage Records

- Do you have obligation to survey disaster damage and report it? ✓
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP and UP	
	Injured	CPP and UP	
	Evacuees	-	No record
Private Sector	Building	UP	
	Agriculture	UP	
	Fisheries	UP	
	Manufacture	×	No manufacturers
Public Sector	Road, Bridge	LGED	
	Dike	LGED	
	Public Utilities	LGED	
Generalization, Statistics			

8. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?
- No record

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

×

✓ Alert and Warning Stage:

CPP: signal was only 4, water level raised suddenly; there was no time to warn people.

DMC: There was no proper road communication during Aila. The mud barriers were rapidly damaged by salt water.

✓ Disaster Stage

There was 2-3 feet high water almost everywhere of the island. Roads and communication was completely blocked.

✓ Rehabilitation Stage

It took very long time to get relief.

#	Situation Approaching Ongoing Passing	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	25.05.09	3 pm	-	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	-Upper Agency -Lower Agency -Other Agency -NGOs -Residents -Public Media	1-3	notice	VHF	speaking	Water level may rise upto 7-8 ft. be aware	Flag	
2	Ongoing	25.05.09	5 pm	2 hours	upozilla	units	4	notice	VHF	speaking	Announce warning	Flag Announce warning	Mud barrier melted in water, communication barrier
3	Passing	26.05.09	7 pm	No signal	upozilla	units	4	-	-	-	-	-	Water level raised suddenly with high tide.
4													
5													
6													

10. Others

Upozila DMC complained about CPP in this region. They believe that CPP needs reformation. Because once the units were formed in 1972, it never had a reform. The same people are working as volunteers. They have grown old and lost capability of movements during disaster.

4 person died in Nizhum dwip during 2012 cyclone. There are no polders at the moment. From project CDSP, one 2 km polder is under construction to prevent salt water during high tide.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Khalil Mehedi Hasan	UNO	Upozila Porishad	01819248646
Abdur Rob	Upozila Team Leader	CPP	01714733846
Other participants are incorporated in participant list			

(3) Responding Date and Hour

14 / 04 / 2013

(4) Responding Place

UNO office Shuborno Char Upozila, Noakhali District

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Shuborno Char Upozila porishad

(2) Organization Chart

- Could you provide the latest organization chart? if any.×

- Which departments/units are in charge of disaster management in the latest organization chart?

UNO> Head of land ministry (Next in charge in absence of UNO)>7 core people including night guard in UNO office



Picture: citizen charter Shubarna char upozila.

(3) Number of Human Resources

Quorum: 27 Enrollments: 27

Ministry representative

(4) Population and Number of Household

Year: 2001 Source: population census

Population:

Male: 94,649 Female: 94,033 Total: 1, 92,003

Number of Household: 33,300

(5) Area

576.14 √ Square kilometer/Hectare

(6) Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union		08	
Number of Gram		54	
Number of Para		57 mouja	
Number of Polder		155.35 km	

(7) Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	33,673 households 75%	Financial loss, thousands of acres of crops are damaged
Fisheries	20-25%	Life risk, especially those who go to the deep sea
Manufacture	Knit wear 327	Insolvent households are comparatively more vulnerable
Service	3%	×

(8) Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Map of Shuborno Char upozila.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

UNO: getting information from a single central point is not a problem. The problem is to convey this message to the field level, because cyclones do not come rapidly. During Aila, we had two days warning.

We need a fast and effective way of generating messages, so that we can inform all of our union leaders at one go. It takes a lot of time to call them one by one.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
√Cyclone	1970, 1985, 1991, 1998, 2009.	Lots of people died in 1970. In later cyclones, households and crops were damaged.



Pictures: Meeting UNO; Shubarna char upozila

5. Department/ Division in charge Disaster Management

(1) Department/ division and other organizations in charge of disaster management

(2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee
 B: Disaster Relief & Rehabilitation Office
 C: CPP
 D: NGO (OXFAM, SHAGORIKA, etc)
 E: UP
 F: Political leaders, teachers, local elites, etc.
 G: Government associated department (Agriculture, Fisheries, roads and highways, etc)
 H: Anser force (volunteers of defense ministry)
 I:

J:
 K:
 L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila	C	C, E, F, H	A, C	C, E, F	A, E	C, E, G	G, H	D, E, F	C, D
Union									
Gram									
Para									
Individual									
I									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP: 110

Part-time: CPP: 1,650

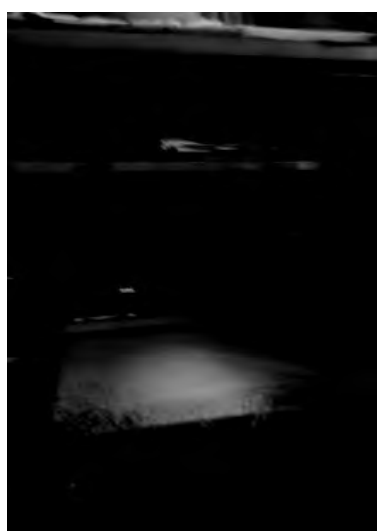
DMC: 40

(2) Office and Equipments

Sole use office room CPP: √ DMC: no separate office

Equipments : √Desks √File cabinets

×Copy machine √Computers



Pictures: CPP HF set and CPP team leader Shubarna char.

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?

CPP: √

- Planning/Reviewing/Updating disaster management plan

CPP: ×

DMC: Meeting resolutions change according to position of new centers and other necessary changes.

- Staff training

DMC: 3 months ago, UNO received training in BRAC university from Disaster Management Bureau funded by UNDP.

CPP: √; last training was in 2012. It was very short. Only one day. So, all the unions could not participate. The Upozila team leaders go to Dhaka 2/ 3 times per year but other volunteers do not have much scope to get involved.

- Emergency drill at district/√Upazila/ Union level,

CPP: the last evacuation drill was in 2010.

DMC: ×

- Equipment maintenance

CPP: ×

DMC: official equipments are maintained regularly. As they need them in regular basis.

- Inter organizational/Stakeholder meeting

CPP: are supposed to do 3/ 4 meetings each year.

DMC: School and UP based discussions.



Pictures (clock wise from top): Meeting CPP shubarna char, Siren operational machines and Mega phone siren system.



Pictures: CPP office and primary meeting with CPP members at UNO office.

- Drawing/Reviewing/Updating hazard map

CPP: there are cyclone shelter based hazard maps, these maps were provided by Red Crescent during one of their projects. Community people know the positions of cyclone shelters.

DMC: union based.

- Residents awareness campaign

CPP: ✓ last one in 2012

DMC: School based rally, earth quake drill, etc. Shagorika NGO arranged 28 March.

- Residents evacuation drill

CPP: ✓ No funds now. Last one in 2010

DMC: ×

6.3 Financial Status

CPP: no separate fund; there used to be a volunteer welfare fund. Their donor told them that if they save 20%, then they will provide another 80%, for health care, etc emergency needs of the volunteers. They saved around 70,000-80,000 tk. But donors have not provided their contribution, more over they cannot even take the money out of the account now.

American UCPP provided wireless sets to them.

DMC: DMC receives support from government according to their needs.

Upozila revenue fund around 1.0-1.2 million TK.

Annual Development Plan: 6.2 million for UP.

CDMP project 50-60 million for 8 unions of this upozila.

LGSP project World Bank, 50% funds as loan.

- Let us know the finance statements in normal time activities in the last

three years.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?

CPP: ✓

- Please describe gaps between the SOD and actual activities? If any.

CPP: It is very risky for the CPP volunteers to move during cyclones. They do not even have raincoats for themselves. In 2005 they received some raincoats, which are already damaged now. They have one VHF active in Muhammadpur union. Therefore, they are heavily dependent on mobiles during emergency. As there is no electricity, it is difficult to charge mobile phones during cyclones and the support fails within one day of cyclone.

DMC: There are no roads to communicate with the population outside the polders.

(1) Number of Human Resources

- How many staffs are mobilized?
all.
- Do you have any regulations/ rules for mobilization of staffs?
×

(2) Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time ✓ DC/ UNO/ PIO office
CPP: Dhaka Boro Mog Bazar Red Crescent Bhaban, 684/86,
Others: 1 siren, installed in upozila porishad building (3 km diameter)

- Equipments : √Desks √File cabinets
 √Copy machine √Computers
 √UPS √Internet
 √TV set √Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
 CPP: Dhaka HQ, through wireless HF sets
 DMC: DC office fax/mobile/email.
- Where do you send the warning to? What is communication method?
 CPP: unions>units>volunteers through VHF/ mobile/ volunteers themselves go to deliver message.
 DMC: UP chairman; call their mobiles and issue letters on emergency basis.
- How long does it take usually since receiving till sending information?
 CPP: 1-1.5 hours
 DMC: 15 minutes.
- Contents of warning : Which warning signal levels do you use?
 11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
 CPP: ×
 DMC: Need a device so that we can deliver messages all in one go. Mobile networks fail during disasters, or sometimes the respondents do not pick up the phone, in that case we have to send someone to inform them.
- Do you have any issues and problems regarding communication method?
 CPP: Machines do not work properly. Especially if the VHF starts disturbing then one staff from Dhaka HQ will come to the union to fix it. During cyclone season, they do it in 8-10 days, but in normal time it takes 1-1.5 months.
 DMC: Need coordination with weather forecast department and upazila parishad, so that we can receive the message regionally.
- Do you have communication radio in the district/ √upazila/ unit?
 CPP: total 110 radios; one in each unit, but 9/10 out of 110 are working at the moment.
 DMC: no equipments.

- CPP: 90% mobile network/ 30% TV network/ FM band radio 80%/ AM band radio 100%, in addition to that, 5% market places have generators for electricity supply.

- How many percent does Mosque Microphone cover in the area?

CPP: in Char area, there are some mosques that do not have mikes. including them, it will be 70%.

DMC: around 500 mosques in the upozila, 50% have mikes that cover 80% of the area.

- CPP: Solar power system 10%/ 70% residents have mobile phones/ 20-25% residents have TV. Radio is very rare at best 5%.

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

CPP: Dhaka HQ. At the same time, UNO also issues warning, but we cannot start as long as we don't have authorization from HQ.

DMC: Ministry issues order then DC and UNO.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

CPP: shelter based.

DMC: Residents are requested to move to the nearest cyclone shelters.

(2)Shelter Management

CPP: During disaster, people take shelter in nearby centers, but the problem is, in char area, there are not many cyclone shelters. On the other hand, in some areas, the houses are stronger than cyclone shelters. There is no budget for repair and maintenance of the shelters.

DMC: UP chairmen inform UNO about number of person evacuated in each shelter and then they manage dry food etc for them.

(3)Rescue and Search

There are 3 rescue and three members for search in each unit. Out of three, 2 are men and 1 is a women. Each unit covers approximately 3 sq km area.

(4) Sufferer Help

According to the damage report, help is provided by the DC.

(5) Damage Survey

UP informs UNO, CPP also do damage survey right after the disaster.

(6) Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

8. Cyclone Shelter

(1) Evacuation Plan

- Do you have evacuation plan including items below?

➤ zoning for each evacuation shelter

There are two cyclone shelters in some wards or units or some area have no shelters at all, it depends on land availability.

➤ evacuation route

Practically, the evacuees chose the nearest cyclone shelters and evacuate.

➤ shelter capacity: 400-1,000 each shelter

➤ storage of food and water, and so on: Very few cyclone shelters have deep tube wells in the first floor. Others have in ground floor.

(2) Current Condition of shelters

- Number of shelters : 83 Existing: 75 Plan:
- Total capacity : 38,500 Population ratio: 20%
- Solo use: 10-15 Multi use: rest
- Other purposes of multiuse shelter: School, police station, up office, etc.
- Do you think the shelters have enough height for tidal wave/ flood?
10-15 shelters do not have enough height, the others are ok.

(3) Operation / Management

- Owner
Institutions that are using the cyclone shelters are in charge of shelters in normal times. During emergency cpp is in charge.
- Operation/ Management
School/shelter management committee.
- Cost burden
Red Crescent take care of their shelters, for others, there is no effective management policy.

(4) Shelter Management Manual

- Do you have a shelter management manual?
One is in the process of preparation, but not effective yet.

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?√
- Do you have obligation to record activities under state of emergency and report it?√

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?√
- Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	×	
Private Sector	Building	CPP, UP	
	Agriculture	CPP, UP	
	Fisheries	CPP, UP	
	Manufacture	Companies itself	
Public Sector	Road, Bridge	CPP, UP	
	Dike	CPP, UP	
	Public Utilities	CPP, UP	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

#	1	2	3	4	5
Name	2008 nargis	2008 reshmi	2009 bizli	2009 aila	2010 laila
Type	cyclone	cyclone	cyclone	cyclone	cyclone
Start Date	27.04.2008	25.10.2008	14.04.09	23.05.09	17.05.2010
End Date	2.05.2008	27.10.2008	17.04.09	25.05.09	20.05.2010
Maximum Wind Velocity	120-140 kmph	70-90 kmph	70-90 kmph	70-90 kmph	89-117 kmph
Highest Sea Level					
Total Rainfall					
Dead					
Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others Center:	64 km		54 km Will effect feni, lakshmipur bhola	54 km	64 km

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Aila
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

CPP: No trainings for last 7 years, some volunteers were new. They did not understand what to do.

DMC: Preparation for Aila was difficult as water level raised all on a sudden at night time.

- ✓ Alert and Warning Stage:

Do not have any fast vehicles like motor bikes and no road communication outside polders.

- ✓ Disaster Stage

CPP: during cyclone, trees fell on roads and blocked communication. During warning, residents do not want to leave their household, but during cyclone they call us and ask for assistance, when it is already too late.

DMC: Managing the cyclone shelters were the biggest problem during cyclones. No food stock for immediate use, no water or sanitation facility.

- ✓ Rehabilitation Stage

CPP: Medicines have expire dates, no first aid kits, or other instruments for immediate treatment.

DMC: no modern equipments for rescue/ rehabilitation.

- ✓ Evacuation rate: 40% during aila. 15-20% during sidor. Now, the total capacity would be 30% including private shelters.
- ✓ 2/ 3 children died during aila. They were on their way to evacuation then drowned in water.
- ✓ Coverage of warning: 50% during sidor, 60% during aila and it would be 80% now considering the remote areas out of polder out of warning.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									-Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	23.05.09	3pm		Upper Agency Lower Agency Other Agency NGOs Residents Public Media	Upper Agency Lower Agency Other Agency NGOs Residents Public Media	1-3	Notice	Fax	Fax	-	-	-
2	Approaching	24.05.09	7pm		Dhaka	Union	3	Notice	HF	Speaking	Distance Latitude Wind velocity	Flag Inform unit team leader	Communication vehicles
3	Ongoing	25.05.09	8am		Dhaka	Union	Mongla 7 Cox's- bazar 6	Notice	HF	Speaking	Distance Latitude Wind velocity	Flag MF warning	Instruments were mostly out of order
4													
5													
6													
7													
8													
9													
10													

12. Others

UNO: CPP should receive salary. In that case, we can have command on CPP and we can work together more effectively during disasters. Need separate places for men and women in cyclone shelters. also, it will be good to have some kind of communication method to include all the union /units in a single loop, because we lose a lot of time in calling them one by one.

There was a storm in 2012 about which, the UNO received fax at 1 am at night. By the morning, the storm already attacked.

Sidor went through Khulna but they received warnings and must evacuation order. For this kind of miss interpretation, people lose faith on weather forecast.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Advocate Enamul Hoque	Chairman	Union Parishad	01713632127
Md Jahangir Hosain	Secretary	Union Porishad	01716494239

(3) Responding Date and Hour

17 / 04 / 2013

(4) Responding Place

UP office

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Muhammadpur Union Parishad, Shuborno Char upozila, Noakhali district

(2) Organization Chart

- Could you provide the latest organization chart? if any.×

Chairman>secretary>9 ward members, 3 Female members>9 village guards and one head of guards.

- Which departments/units are in charge of disaster management in the latest organization chart?

DMC: UP chairman, secretary, members, CPP members, Teachers, religious leaders, etc.

(3)Number of Human Resources

Quorum: 3

Enrollment:3

(4)Population and Number of Household

Year: 2011 Source: census

Population:

Male: 15,035 Female: 14,703 Total: 29,738

Number of Household: 5,948

(5)Area

55,443 √Square kilometer/Hectare

(6)Number of Subordinate Government Agencies

Let us know the number of subordinate government agencies.

Respondents	District	Upazila	Union
Number of Upazila			
Number of Union			
Number of Gram			11
Number of Para			
Number of Polder			2 (repaired in 97)

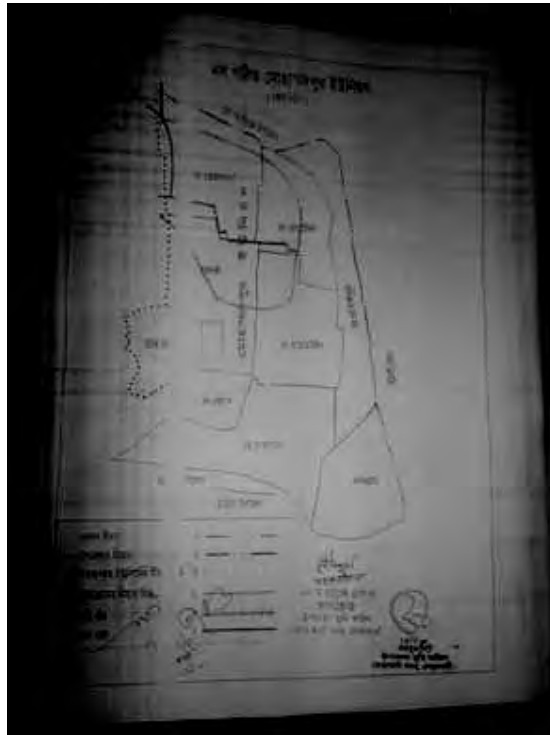
(7)Outline of Industry

- Population by industry
- Vulnerability by industry

Industry	Population	Vulnerability to disaster
Agriculture	85%	Ready crops were washed away during Aila.
Fisheries	15%	Fishery enclosures were damaged.
Manufacture		
Service		

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Map; Muhammadpur union.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

10 years ago, there has been a WAPDA water reading meter. But that was only for measuring water levels during high and low tide to design the height of their polder.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

Local weather forecasting indicator with a nearby radio station can transmit signals and also track cyclones.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river		
Flash flood		
Inside water inundation		
Cyclone	1970, 1985, 1991, 12007, 2009	2/3 children died during Sidor.



Picture: Muhammadpur union; Digital Bangladesh facilities and meeting with DMC.

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: DMC: 21, CPP: 15 Part-time: 225

(2) Office and Equipments

Sole use office room ✓CPP: allocated by UP

DMC: UP office

Equipments : ✓✓Desks ××File cabinets

××Copy machine ××Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan?

CPP: ✓Shelter wise

DMC: ✓After the signal is 4, they call a meeting and measures are taken according to meeting resolution.

- Planning/Reviewing/Updating disaster management plan

CPP: they have rules but no implementation.

DMC: ×

- Staff training

CPP: last workshop in 2009, no fundings.

DMC: 2013, 28 March (Disaster preparedness day) arranged by CDSP.

- Emergency drill at district/ Upazila/ ✓Union level

CPP: BD GOV arranges before every disaster season. Last one in 2012 in Muhammadpur and Purba char bata unions of Subarna Char upozila.

DMC: NGO named BURO organized in 2012.

- Equipment maintenance

CPP: equipments are checked before every disaster season and damaged ones are sent to Dhaka. But the workshop is closed due to fund problems for last 5/6 years.

DMC: No equipments.

- Inter organizational/Stakeholder meeting

CPP: No fund and therefore no meetings.

DMC: They do campaigns like rallies, etc.

- Drawing/Reviewing/Updating hazard map

DMC: ×

CPP: There were some projects named DPP (1991-1993, 2008-2011), they did some shelter based hazard maps with the position of households and cyclone shelters in it.

- Residents awareness campaign

CPP: 5/6 years ago, CPP used to do mock drills about cyclone preparedness in school functions for awareness. Now, it is closed due to fund problems.

DMC: before disaster season, April-May and October-November, they do rally etc.

- Residents evacuation drill

CPP: In 2011, Red Crescent arranged mock evacuation drills, but only near Red Crescent cyclone shelters. No drills for other residents.

DMC: There is no point in doing drills as there are no communication roads even the basics to do evacuation during cyclones to the area outside of polders.



Pictures (From top, clockwise): Muhammadpur union; CPP meeting, CPP life jackets, VHF set and depression tracking map in CPP office.

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

No separate budget for disaster preparedness, total budget for the union is BDT 1.4 million.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

They send the damage report to upozila and ask for assistance and therefore, funds are allocated from the DC to upozila and then unions.

Activities under State of Emergency

6.4 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”? ✓
- Please describe gaps between the SOD and actual activities? If any.

CPP: As there are no roads out of polders, during disasters the passage becomes very slippery. No radio, gumboots.

DMC: Movement during disaster is very difficult. There is completely no communication with the other side of the river or with people out of polders. So, they are out of the warning chain.

(1) Number of Human Resources

- How many staffs are mobilized?
CPP: 225, DMC: 21
- Do you have any regulations/ rules for mobilization of staffs? ×

(2) Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time ✓✓ DC/ UNO/ PIO office
Others:

- Equipments : Desks√
 ××Copy machine
 ××UPS
 ××TV set
 ××File cabinets
 ××Computers
 ××Internet
 Radio receiver (CPP: has VHF, DMC: ×)

6.5 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
 CPP: As the warnings are centrally generated, we usually get the warnings from the radios first. Then we get information from the VHF message and also, from televisions.
 DMC: Radio/TV/mobile phone call from upozila.
- Where do you send the warning to? What is communication method?
 CPP: unit leaders through mobile phones or send volunteers.
 DMC: ward members through mobile and call for meetings.
- How long does it take usually since receiving till sending information?
 CPP: 1 hour.
 DMC: 1/2- 1 hour.
- Contents of warning : Which warning signal levels do you use?
 11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
 CPP: for CPP volunteers, it will be ok, but for normal people we need easier versions that will announce names of smaller units like upozila.
 DMC: there is one signal for river and one for sea. The river signal is 1-4, whereas the sea port signal is 1-10. As we know the difference, it is no problem for us.
- Do you have any issues and problems regarding communication method?
 CPP: There is no rudder to track cyclones that is more than 500 km away from the ports, that is the capacity of our rudders. For cyclones further than that, the meteorological department gets information from India NASA. To get the information from India, it takes 3 hours. Then to prepare the paper work it takes another one-two hour. If we had our own rudders, to track cyclones further than that, then the warnings would be more accurate.

We don't have satellites, only VHF's. We also need some radios so that the national messages on weather forecast can be delivered quickly.

DMC: Evacuation and rescue becomes problematic as we do not have any cars or vehicles to communicate the remote areas of the unions.

- Do you have communication radio in the district/ upazila/ unit?

CPP: 15 out of 15 are damaged.

DMC: no radio.

- How many percent does mobile phone cover in the area?

CPP: 100%

DMC: 100%

- How many percent does Mosque Microphone cover in the area?

CPP: 20-25 mosques in the union all have mikes, but coverage is only 50-60% during disaster as they cannot hear due to wind velocity.

DMC: coverage 70%.

- Commercial power supply: 00%
- Solar power CPP: 30%, DMC: 5%
- TV network: 100%/ FM band: ×/ AM band: 100%/ mobile network: 100%
- Residents have mobile phones: CPP: 90%/DMC: 40-50%
- Residents have TV: 20%
- Residents listen to radios: CPP: 25-30%, in char area 50%.

DMC: 10% only fishermen.

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

CPP: from Dhaka HQ for CPP incorporated with UNO.

DMC: from DC to UNO then to union porishad chairmans.

6.6 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

CPP: CPP works unit wise to bring people to the nearest shelters. Especially people that live out of polders are priority.

DMC: As DMC don't have any vehicles, they send village guards to warn people and send people to the cyclone shelters.

(2)Shelter Management

CPP: there is one group (3 people) for shelter management in each unit. During cyclone, CPP communicates with the school head masters for the keys of cyclone

shelters.

DMC: usually school committee is in charge of shelter management. During cyclones CPP take the lead. There is a separate Red Crescent committee for only RC cyclone shelters.

(3)Rescue and Search

CPP: there are 3 people for rescue and 3 for search in each unit. Some people have mobile numbers of our volunteers. They call us or otherwise the volunteers know which are the vulnerable areas; for example low land, etc. After the cyclone, they go to those areas and find out.

DMC: There are no special measures for elderly or pregnant women. Sometimes, it is not possible to bring them to cyclone shelters.

(4)Sufferer Help

CPP: through UP.

DMC: Union parishad initially gives them dry food, etc. later, when they receive relief from DC office, then they receive and distribute through UNO.

(5)Damage Survey

CPP: when it is safe, the cyclone is over, we go to the field and check damages.

DMC: the preliminary survey is done right after the cyclone. At that time, the missing are considered missing. Then within five days, the final damage report is submitted to the UNO. If the missing are not back by then, they are considered dead.

(6)Other

6.7 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:

7. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

➤ zoning for each evacuation shelter

CPP: unit wise population distribution. Although a large number of residents are living out of polders.

DMC: ward wise.

- evacuation route

Nearest cyclone shelters, no proper routs.

- shelter capacity

Total 4,000 in 7 shelters; population ratio: 13.5%. The cyclone shelter of char akhter was a vital shelter. Now it is closed and abandoned.

- storage of food and water, and so on

Cyclone shelters do not have food storage facility. Water and sanitation facilities are down stairs.

(2)Current Condition of shelters

- Number of shelters : 8 Existing: 7 Plan:
- Total capacity : 4000 Population ratio: 13.5%
- Solo use:3 Multi use: 5
- Other purposes of multiuse shelter: School.
- Do you think the shelters have enough height for tidal wave/ flood? ✓

(3)Operation / Management

- Owner
School committee/ Red Crescent committee (only for RC centers).
- Operation/ Management
CPP/ RC
- Cost burden
GOV or other donors.

(4)Shelter Management Manual

- Do you have a shelter management manual?✓

In various booklets.

Records

(5)Record of Activities

- Do you have obligation to record normal time activities and report it?✓
- Do you have obligation to record activities under state of emergency and report it?✓

(6)Damage Records

- Do you have obligation to survey disaster damage and report it?✓
 - Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	CPP, UP	
	Agriculture	CPP, UP	
	Fisheries	CPP, UP	
	Manufacture	×	No manufacturers
Public Sector	Road, Bridge	Gov, LGED, etc.	
	Dike	Gov, LGED, etc.	
	Public Utilities	Gov, LGED, etc.	
Generalization, Statistics			

8. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?
- No information of past disasters in union level, they send the D-forms to UNO.

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing					
Injured					
Total Collapse Houses					
Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

9. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidor 2007
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

- ✓ Normal Times:

CPP: Communication is a big problem. Mega Phones were damaged, no radios, had to wait to get proper news.

DMC: As long as it does not rain, communication is alright in normal time, but rain makes the roads slippery and makes it difficult to communicate.

- ✓ Alert and Warning Stage:

DMC: During rain, roads are wet and it is not possible to move with hand mikes near the residents living outside of the polders.

CPP: Not many people use radios. Mobile network is disrupted during signals. Some fishermen received warning over mobile phones, but it was too late to come back to the ports. They waited in the small channels during cyclone. We were very lucky that the cyclone did not hit Noakhali, otherwise it would have caused massive damages.

- ✓ Disaster Stage

CPP: No primary health care facility inside cyclone centers. Many people were injured during coming to cyclone shelters, but it was not possible to assist them. No toilets/water supply/food storage.

DMC: There was no means of communication. Even shelter to shelter communication was not possible as there was no mobile phone network.

- ✓ Rehabilitation Stage

DMC: Difficult to reach the residents out of polders. As there are no roads outside of polders.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	approaching	sido		1 hour	Up- Agency Lower Agency Other Agency -NGOs -Residents -Public Media	Up- Agency Lower Agency Other Agency -NGOs -Residents -Public Media	1-3	Notice	Radio	speak	There is a depression in the bay of Bengal volunteers be prepared	Flag Verbal warning	-
2	ongoing			25 min	upozila	unit	4-7	Order	Mobile/ face to face	speak	Position Distance from Ports, wind velocity	Flag Call meeting MF warning	MF damaged 2/3 units Had to work Together.
3	passing			10 min	upozila	unit	8-9	Order	Mobile/ face to face	speak	Evacuation Order, to Listen to Radios and Communicate CPP members	Meeting Evacuation order Dry food to cyclone shelters	Communication No vehicle No raincoat No boot
4													
5													
6													
7													

10. Others

The Chars (island) of this area are growing very fast and new residents are migrating to outer polders. The last CPP unit distribution was in 1991. After that, the geography of the area has changed. So, a large number of populations are living out of CPP coverage.

There are no road communication or cyclone shelters to out of polder areas.

DMC suggestion: lights near the ports will help fishermen to see the signals during night time.

Data Collection Survey on Early Warning and Disaster Information System in Coastal Area
People's Republic of Bangladesh

Questionnaire for Local Government Agencies

1. Condition of Data Collection

(1) Method of Collection (Select from below)

Interview Filling in this paper Other:

(2) Respondents

Name	Title	Organization	Telephone No.
Abul Bashar Monjur	Chairman	Union porishad	01711286008
MD Anowar hosain helal	Secretary	Union porishad	01740934775
Rest of the names in participant list			

(3) Responding Date and Hour

18 / 04 / 2013

(4) Responding Place

Union Posishad

(5) Interviewer

Akhmila

2. General Information of Organization (District/ Upazila/ Union)

(1) Name of Organization

Purba Char Bata

(2) Organization Chart

- Could you provide the latest organization chart? if any.

Chairman>secretary>9 Ward members and 3 female members>9 village guard
and one head guard

(8)Map

- Could you provide map of District/ Upazila/ Union, if any?



Picture: Hazard map; Purba Char bata union.

3. Meteorological/ Hydrologic Observation Station

- Is it possible to obtain data from meteorological/ hydrologic observation stations below? If yes, let us know the name of stations.

Rainfall:

Wind:

River level:

Sea level:

- Do you know the location of meteorological/ hydrologic observation station operated by Meteorological department or other organizations?
- If yes, do you have map of these locations or can you put the locations on the map?
- Is it possible/ necessary to issue more accurate warning in the area based on the observation data of meteorological/ hydrologic station?

Union/ upozila based information center.

4. Disaster Conditions

Could you provide information of disaster conditions in the area?

Disaster Type	Frequency	Damage
Flood from large river	×	

Flash flood	×	
Inside water inundation	2009 (after aila)	Crops, fisheries, livestock
Cyclone	1991, 1998, 2007, 2009,	Household and trees damaged, fishermen lost their boats.

There was a huge north-west storm in this area in 2012, large population were affected.

5. Department/ Division in charge Disaster Management

- (1) Department/ division and other organizations in charge of disaster management
- (2) Could you list names of department/ division and other organizations in charge of disaster management?

A: Disaster management committee G: School committee
 B: Disaster Relief & Rehabilitation Office H: Red Crescent committee
 C: CPP I: WAPDA co-operative society
 D: NGOs (Shagorika, Upokul unnoyon shangstha) J:
 E: Social elites, political leaders K:
 F: Associated ministry: LGED, etc. L:

(3) Duty of each organization

Lines show hierarchies of governmental agencies and columns show disaster management activities.

Could you fill the table by organizations' mark (A, B, C, and so on.) above?

Organs Agencies	Warning	Evacuation	Shelter Management	Rescue	Assistance for affected people	Damage Survey	Public Rehabilitation	Private Rehabilitation	Normal Time Activities
National									
District									
Upazila									
Union	C, A	C, A	A, C, I, H	A, C, E	A, D, E	A, C	A, F	A, D	C
Gram									
Para									
Individual									
1									
CPP									

6. Normal Time Activities

6.1 Structural Framework

(1) Number of Human Resources

Full-time: CPP: 14, DMC: 40

Part-time: CPP: 14*15

(2) Office and Equipments

Sole use office room DMC: × CPP: Red Crescent cyclone shelter

Equipments : CPP: √Desks

×File cabinets

×Copy machine

×Computers

6.2 Contents of Activity

Let us know normal times activities. How frequent and how many participants?

- Do you have disaster management plan√
- Planning/Reviewing/Updating disaster management plan×
- Staff training

CPP: 2010; one day workshop

DMC: secretary: 2010 from NGO CARE Bangladesh shouhardo project,
member: 2009,2010, Shouhardo project, and from local NGO Shagorica.

- Emergency drill at district/ Upazila/ Union level

CPP: 2010

DMC: School committee arranges and DMC participates.

- Equipment maintenance

DMC: ×

CPP: They are supposed to check and send the damaged ones to upozila, but never received them back in 3/ 4 years.

- Inter organizational/Stakeholder meeting

CPP: School based and also with fishermen.

DMC: Every year, during disaster season; before April and November.

- Drawing/Reviewing/Updating hazard map

DMC: ×

CPP: one union level hazard map and some shelter based maps.

- Residents awareness campaign

DMC: upozila level

CPP: Especially in 28th march, disaster preparedness day, last in 2012.

- Residents evacuation drill

DMC: Shagorika NGO

CPP: last one in 2011. The first ever evacuation drill in Bangladesh was done in Shuborna Char area in 1977 (Was named Shudharam before)

6.3 Financial Status

- Let us know the finance statements in normal time activities in the last three years.

They have BDT 50,000 in total for emergency use. The total budget of this union for 2012-2013 financial year is BDT 1,72,37,405, 2011-2012 was 16,65,000 and 2010-2011 was 17,60,113. CDMP will spend the majority of money in various projects in 2012-2013, that is 1,30,00,000 tk.

	2010		2011		2012	
	Budget	Expenditure	Budget	Expenditure	Budget	Expenditure
Total						
Disaster Management						
Early Warning						

- Please describe the allocation policy and priority of the budget. If any.

7. Activities under State of Emergency

7.1 Emergency Plan

- Under state of emergency, does the organization follow the “Standing Orders on Disaster: SOD”?√
- Please describe gaps between the SOD and actual activities? If any.

There are no equipments for CPP to use in emergency condition. No vehicle for fast communication, no rain coat, torch, helmets.

DMC: Dakhshin char mojid, purba char mojid and langolia are lower areas that are out of polders. There are no road communications to that area; for this reason, these areas are out of warning coverage. No rescue instruments of vehicle support during disaster.

(1)Number of Human Resources

- How many staffs are mobilized? all
- Do you have any regulations/ rules for mobilization of staffs?×

(2)Office and Equipments

- Where is emergency head quarter office set up?
Same as normal time√ DC/ UNO/ PIO office
Others: No electricity, therefore, no electric equipments.
- Equipments : √Desks ×File cabinets
×Copy machine ×Computers
×UPS ×Internet
×TV set ×Radio receiver

7.2 Warning

(1)Warning

- Where do you receive the warning form? What is communication method?
CPP: From upozila through mobile phones.
DMC: UNO through mobile phones.
- Where do you send the warning to? What is communication method?
CPP: union>unit>volunteers through mobile or volunteers physically communicate with each other as all the volunteers do not have mobile phones.
DMC: call DMC union level meeting through mobile; on the other hand when they hear that the signal is 4, members are bound to come and join the meeting.
- How long does it take usually since receiving till sending information?
CPP: 2 hours/ DMC: 1 hour
- Contents of warning : Which warning signal levels do you use?
11 levels √10 Levels 6 levels Others:
- Do you have any issues and problems regarding warning contents?
DMC: they should mention names of upozila or smaller regional names in the warning.
CPP: there are two separate signals in national media; one for the river area and one for the ports. The river area signal is upto signal 4. The sea port signal is 10 level, which CPP uses. This causes confusion. Sometimes people ask us why cpp is announcing signal 7, where in radio the signal is 3!

- Do you have any issues and problems regarding communication method?

CPP: the mobile towers lose power supply as there is no electricity during disaster. After that we lose communication even with shelter to shelter. There are no motor bikes or any vehicle that we can use during disaster, we even do not have any rain coats or gumboots to move in the rain during disaster.

DMC: during disaster, wind blows wildly; so most of the people do not listen to what we say. We need some high power sirens so that we can use it to inform people that this is an emergency situation.

- Do you have communication radio in the district/ upazila/ unit?

CPP: out of 14 radios for 14 units, only 3 are in working condition.

DMC: no radios.

- Mosque microphone: 60% mosques have mike. Coverage is 70%.
- Commercial power supply: CPP: less than 10%. DMC: 20%.
- Solar power: CPP: 3-5%, DMC: 10%.
- TV network: 100%, /FM radio: DMC: 00% only until Noakhali; CPP: 50%, /AM radio: 100%, Mobile phone: 40%
- 70% residents have mobile phones.
- TV: less than 10%.
- Only fishermen listen to the radio: 5%.

(2)Warning and Evacuation

- Who/ which organization does issue warning and evacuation order?

CPP: Upozila CPP head quarter.

DMC: UNO.

7.3 The Other Activities

Could you explain regarding activities below? If any.

(1)Evacuation Guidance

CPP: female, children and elderly are priority, male and youth at the end.

DMC: announces to evacuate and move to the nearest cyclone shelters.

(2)Shelter Management

CPP: The shelters that are used only for single purpose have shelter management committee. For the ones that are used as schools, CPP in liaison with school committee are in charge of shelter management.

DMC: during cyclone, DMC work together with CPP, they manage candles, dry food and water from sole fund of UP.

(3)Rescue and Search

CPP: Two sub groups in each unit; one for rescue and one for search. Each have three members, one female and two males. They start movements after the cyclone. They try to rescue by themselves, when they are stuck, they ask for assistance to the union team leader.

DMC: They work ward wise. CPP team gets information and then they work together to rescue vulnerable residents.

(4)Sufferer Help

CPP: try to provide dry food in cyclone shelters. UP takes care of the rest of it.

DMC: the relief that we get from government is very small. If we ask assistance for 800 families, they provide us help for 100 families and tell us to find the most vulnerable ones.

(5)Damage Survey

CPP: The damage survey is done just after the cyclone is finished.

DMC: Usually ward members do the damage list. This list is then sent to the UNO office for their record.

(6)Other

7.4 Financial Status

- Could you provide the financial status for emergency activities?

Budget:

Expenditure:



Pictures: meetings with Purba char bata CPP and DMC.

8. Cyclone Shelter

(1)Evacuation Plan

- Do you have evacuation plan including items below?

➤ zoning for each evacuation shelter

CPP: Inside the polder, CPP has units to cover evacuation, but outside the

polder, there are no cyclone shelters or road communication.

DMC: Vulnerable population is first priority.

- evacuation route

CPP: new land is priority but no one wants to move out of their houses during warning.

- shelter capacity

Total shelter capacity is 20-25% of the total population.

- storage of food and water, and so on: ×



Pictures: Japan Govt. funded cyclone shelter in Purba char bata.

(2) Current Condition of shelters

- Number of shelters : 14 Existing: 14 Plan:
- Total capacity : 7,500 Population ratio: 21%
- Solo use: 6 Multi use 8
- Other purposes of multiuse shelter: School
- Do you think the shelters have enough height for tidal wave/ flood? ✓

(3) Operation / Management

- Owner
Shelter management committee
- Operation/ Management
Liaison with CPP, school committee, neighbors, etc.
- Cost burden
Donors and government together bear the cost burden.

(4) Shelter Management Manual

- Do you have a shelter management manual? ✓

9. Records

(1) Record of Activities

- Do you have obligation to record normal time activities and report it?
CPP: Meeting resolutions, special activities like workshop, etc. others are usually not recorded.
- Do you have obligation to record activities under state of emergency and report it?√

(2) Damage Records

- Do you have obligation to survey disaster damage and report it?
 - Could you provide information which organization is in charge to record each item in the table below?

	Items	Organization in charge	Remark
Human Damage	Dead, Missing	CPP, UP	
	Injured	CPP, UP	
	Evacuees	CPP, UP	
Private Sector	Building	CPP, UP	
	Agriculture	CPP, UP	
	Fisheries	CPP, UP	
	Manufacture	×	
Public Sector	Road, Bridge	UP, LGED	
	Dike	UP, LGED	
	Public Utilities	UP, LGED	
Generalization, Statistics			

10. Past Disaster Records

- Could you provide past disaster records? If possible, could you fill the table below?

*No record in union level.

#	1	2	3	4	5
Name					
Type					
Start Date					
End Date					
Maximum Wind Velocity					
Highest Sea Level					
Total Rainfall					
Dead Missing					
Injured					
Total Collapse Houses					

Half Collapse Houses					
Total Collapse Dike					
Half Collapse Dike					
Inundation Area					
Inundation Depth					
Agriculture Damage					
Fisheries Damage					
Economic Losses					
Others					

11. Actual Activities in the past specific cyclone

In order to grasp actual activities during cyclone, could you provide information regarding the actual activities below?

- Name of the cyclone: Sidor
- Record of activities including time series, if any.
- If you do not have the record of activities, could you fill the next table?
- If you have any issues and problems related to each stage of disaster management, please describe below.

Issues and Problems:

✓ Normal Times:

CPP: equipments were mostly out of order.

DMC: no problem.

✓ Alert and Warning Stage:

CPP: Most of the hand mikes were out of order, so, the volunteers had to share their work and it delayed the whole process.

DMC: Ward 4,8,9 has out of communication and therefore, we could not announce warnings to that area.

✓ Disaster Stage

CPP: People do not want to evacuate when we announce the warnings. At 11:00 pm many residents called us and told us that they want to evacuate, but it was too late by then. They do not want to leave their property and livestock.

DMC: Shelter capacity is very small. Especially ward 4,8,9 is out of polder and too far to be evacuated.

✓ Rehabilitation Stage

CPP: As the cyclone did not hit directly, we did not get any relief.

DMC: Relief was not adequate. If we ask assistance for 600 households, we will get relief for only 40-100.

Evacuation ratio: 21%

Two children died, the roof of their houses collapsed over them.

#	Situation	Date	Time	Receive /Send	From	To	Warning Level	Type of Warning	Communication Method		Contents of Information	Activities	Issues
									Fixed-line phone -Cell-phone -Radio -Loudspeaker -Face to Face	-Speaking -Fax -Email			
1	Approaching	Sido		2.5 hours	upper	Lower	1-3	Notice	mobile	speaking	Depression in bay of Bengal location position wind velocity alert volunteers	Flag Verbal warning	
2	Ongoing			30 minutes	upper	Lower	4-7	order	mobile	speaking	location position wind velocity start warning prepare for evacuation	Flag Meeting Warning announcement	
3	passing			10 minutes	upper	Lower	8-10	order	mobile	speaking	location position wind velocity must evacuate	Flag Siren Evacuation request	Requested mosques for support
4													
5													
6													
7													



Picture: community participant from Purba char bata.

12. Others

DMC mentioned that in ward no 4,8 and 9, many people are living outside the polders. The shelters are mostly inside the polders and no communicating roads out of polders.

CPP volunteers mentioned that if there is at least one or two trainings for all the volunteers, then they would feel motivated.

Appendix 3

Survey Result of Equipment for EWS

Survey Result of Equipment for EWS

Division	District/Zila	Name of Upazila	Wireless Set					Warning Equipments					Volunt Centre								
			HF	VHF	Transceiver	Radio	Megaphone	Signal light	P.A	Alarm flag	Emergency box	Others	Life vest	Helmet	Best	Raincoat	Robber boot shoes	Car	Motorcycle	Bicycle	
1	Bagerhat	Sarankhola	The number of possession	2	2	0	38	38	0	0	38	38	0	0	0	0	0	0	1	0	
			Defective number	0	0	0	30	28	0	0	38	0	0	0	0	0	0	0	0	1	0
			The number of possession	0	0	0	64	64	0	0	192	64	0	0	0	0	960	0	0	0	0
			Defective number	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Total	2	2	0	102	102	0	0	230	102	64	0	0	0	960	0	0	0	1
2	Khulna	Dacope	The number of possession	0	0	0	78	78	0	0	234	234	234 (torch light), hand siren	1,170	1,170	0	1,170	0	0	0	0
			Defective number	0	0	0	0	0	0	0	0	0	0	0	0	234	0	234	0	0	0
			The number of possession	0	0	0	67	68	0	0	603	201	Rescue Box (201)	1,005	1,005	1,005	0	1,005	0	0	0
			Defective number	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Total	0	0	0	145	146	0	0	837	435	234 (torch light), hand siren	2,175	2,175	2,175	2,175	0	2,175	0	0
3	Shaikhila	Shamnagar	The number of possession	2	2	0	384	385	0	0	1,067	948	234 (torch light), hand siren	5,190	5,190	1,005	5,180	0	1	0	
			Defective number	0	0	0	167	158	0	0	38	0	234 (torch light)	484	434	0	634	0	0	0	
			The number of possession	1	4	0	121	121	0	0	121	121	0	0	0	0	0	0	1	3	0
			Defective number	1	0	0	101	101	0	0	121	61	0	0	0	0	0	0	1	2	0
			Total	2	3	0	32	48	0	0	93	13	0	70	128	0	480	0	0	3	95
4	Barguna	Patharghata	The number of possession	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	95	
			Defective number	3	7	0	153	169	0	0	214	134	0	70	128	0	480	0	1	6	
			The number of possession	2	0	0	101	102	0	0	121	61	0	0	0	0	0	0	1	4	
			Defective number	1	0	0	70	69	0	0	414	276	0	828	828	828	828	690	0	1	
			Total	0	0	0	55	28	0	0	0	248	0	580	663	580	663	552	0	1	1
5	Bhola	Char Fasson	The number of possession	1	2	0	130	130	9	390	390	720	858	1,560	783	636	0	3	130		
			Defective number	0	0	0	100	70	130	9	320	390	600	700	1,300	700	500	0	2		
			The number of possession	1	6	0	150	150	12	450	450	0	750	923	1,800	752	750	0	2		
			Defective number	0	0	0	135	100	150	0	370	450	600	793	1,500	752	400	0	0		
			Total	1	3	0	43	43	0	129	43	0	238	134	516	217	232	0	1	43	
6	Patuakhali	Galachipa	The number of possession	0	0	0	23	20	43	0	85	43	0	350	217	232	0	1	37		
			Defective number	3	11	0	393	392	530	21	1,383	1,159	2,536	4,704	2,580	2,308	0	7			
			The number of possession	0	0	0	313	218	489	9	775	1,131	2,018	2,240	3,730	2,332	1,684	0	4		
			Defective number	1	3	0	131	131	0	0	131	9	1,000	1,965	1,965	1,965	1	0	2		
			Total	0	0	0	65	65	0	0	0	0	500	932	900	1	0	1	131		
7	Pirojpur	Matbaria	The number of possession	1	3	0	61	73	0	180	69	0	400	900	0	0	0	2	65		
			Defective number	1	1	0	61	59	0	180	60	0	300	900	0	0	0	1	65		
			The number of possession	8	24	0	738	765	530	21	1,908	1,371	4,006	7,569	5,025	2,309	0	17			
			Defective number	3	1	0	540	444	489	9	1,076	1,252	2,818	3,172	4,630	3,232	1,685	0	10		
			Total	1	9	0	134	134	0	0	405	0	100	134	50	134	134	0	2		
8	Chittagong	Banskhali	The number of possession	0	2	0	134	100	0	405	0	0	134	50	134	134	0	1			
			Defective number	1	3	0	80	53	0	0	0	0	0	0	0	0	0	0	0		
			The number of possession	2	12	0	214	187	0	0	405	0	100	134	50	134	134	0	2		
			Defective number	0	2	0	204	120	0	0	405	0	0	50	50	134	134	0	1		
			Total	1	6	0	89	105	0	0	500	0	60	267	0	440	267	0	2		
9	Cox's Bazar	Kutubdia	The number of possession	1	5	0	53	70	0	149	0	640	0	0	673	0	0	3			
			Defective number	0	0	0	53	65	0	80	0	640	0	0	600	0	0	3			
			The number of possession	2	11	0	142	175	0	0	649	0	700	267	0	1,113	267	0	5		
			Defective number	0	0	0	102	115	0	0	80	0	640	267	0	945	260	0	5		
			Total	1	0	0	96	96	0	0	288	198	100	0	200	0	30	0	2		
10	Feni	Sonagazi	The number of possession	0	0	0	90	70	0	0	0	0	0	0	0	0	0	0			
			Defective number	0	1	0	16	16	13	0	48	1	5	20	16	65	80	0	16		
			The number of possession	0	0	0	16	14	12	0	48	1	5	10	14	65	8	0	16		
			Defective number	1	2	0	0	110	110	0	110	110	330	330	1500	550	550	0	2		
			Total	0	0	0	0	60	110	0	60	60	30	130	100	550	300	0	1		
11	Laxmipur	Ramgati	The number of possession	1	1	0	144	144	0	0	144	600	2000	1000	1000	2100	0	2			
			Defective number	0	0	0	144	132	0	0	144	600	2000	900	2100	2100	0	2			
			The number of possession	7	27	0	612	728	110	0	1,500	453	1,379	3,766	2,862	3,161	0	13			
			Defective number	0	2	0	556	511	110	0	533	205	819	1,007	2,164	2,594	2,802	0	9		
			Total	17	53	0	1,603	1,878	653	21	1,910	2,772	10,575	11,377	12,340	13,067	5,470	1	31		
12	Noakhali	Hatya	The number of possession	3	3	0	1,263	1,113	611	9	1,647	1,457	4,747	6,794	6,460	4,487	1	20			
			Defective number	3	3	0	1,263	1,113	611	9	1,647	1,457	4,747	6,794	6,460	4,487	1	20			
			The number of possession	7	27	0	612	728	110	0	1,500	453	1,379	3,766	2,862	3,161	0	13			
			Defective number	0	2	0	556	511	110	0	533	205	819	1,007	2,164	2,594	2,802	0	9		
			Total	17	53	0	1,603	1,878	653	21	1,910	2,772	10,575	11,377	12,340	13,067	5,470	1	31		

Appendix 4
Result of Community Survey

Basic Questionnaire for Residents

Date:

Enumerator name:

District:

Upazila:

Union:

Village:

1. Respondent Name:

2. Sex: M / F

3. Age:

4. What was the worst cyclone you had most recently?

a. Aila

b. Sidr

c. Other (Name: _____, when: _____)

5. Did you get any information about the cyclone before the cyclone attacked?

a. Yes

b. No

6. If Question 5 is “Yes”, from where and how many times did you get the information? (Multiple answers allowed)

a. Radio () times

b. Microphone announcement through CPP () times

c. Community loud speaker () times

d. Religious Leaders () times

e. Community Leaders () times

f. Neighbor () times

g. Teachers () times

h. Market () times

i. TV () times

j. Mosque () times

k. Police () times

l. BDR () times

m. NGO () times

n. Flag hoisting () times

o. UP Members () times

p. Community volunteers () times

q. Others () () times

7. Where did you evacuate to?

a. Cyclone shelter

b. Top of polder

c. Other's house

d. Killa

e. Top of trees

f. Top of own house

g. Schools

h. Mosques

i. Temple

j. Other ()

k. I didn't evacuate.

Questionnaire for Residents

Date:

Enumerator name:

District

Upazila:

Union:

Village:

Household number:

Number of HH in the village (If the respondent is village head):

1. Respondent and Family Information

1-1. General information

Respondent Name:

Sex: M / F

Age:

Educational Background (Years of Schooling) :

Mobile Number :

Religion: a. Muslim b. Hindu c. Buddhism d. Christian e. Other ()

Relation to Head :

a. head b. spouse c. son/daughter d. father/mother e. brother/sister

f. son/daughter in law g. Sister/Brother in law h. grandchild i. grandparent

j. other relatives k. non-relatives

Number of Family Members: Male () + Female () = Total ()

Boy (under 12 years old) : Girl (under 12 years old) :

1-2. What is the worst cyclone you had most recently?

a. Aila b. Sidr c. Other (Name: , when)

1-3. Did the family member leave this place to make a living after the cyclone?

a. Yes b. No

(If 1-2 is "Yes", →1-3, 1-4) (If 1-2 is "No", →1-5)

1-4. Who did leave the place (main person)?

Age:

Sex: M / F

Relation to Head

- a. Head b. Spouse c. Son/Daughter d. Father/Mother e. Brother/Sister
f. Son/Daughter in law g. Sister/Brother in law h. Grandchild i. Grandparent
j. Other relatives k. Non-relatives

Where did he/she go? District: Upazila:

1-5. How many persons did leave in your family? (No.:)

1-6. Main income source before the cyclone:

- a. Shrimp Laborer b. Shrimp Business c. Agriculture Farming d. Agriculture Laborer e.
Fishing Business f. Fishing Laborer g. Rural Transport h. Shopkeeper
i. Relief (including CFW, FFW and CFT) j. Other ()

Monthly average income per family: Tk

1-7. Main income source (current situation):

- a. Shrimp Laborer b. Shrimp Business c. Agriculture Farming d. Agriculture Laborer e.
Fishing Business f. Fishing Laborer g. Rural Transport h. Shopkeeper
i. Relief (including CFW, FFW and CFT) j. Other ()

Monthly average income per family in Tk:

1-8. How many Livestock did you have before the cyclone?

Cow () Poultry () Goat () Sheep () Other (, No.:)

1-9. How many Livestock do you have now?

Cow () Poultry () Goat () Sheep () Other (, No.:)

1-10. Category of the house before the cyclone

- a. Cement b. Bricks c. Tin d. Polythene Sheet e. Thatched tent f. Wood
g. Others ()

1-11. Category of the house after the cyclone

- a. Cement b. Bricks c. Tin d. Polythene Sheet e. Thatched tent f. Wood

g. Others ()

1-12. Did you move to other place for temporary refuge after the cyclone?

a. Yes b. No

(If the answer is "Yes", →1-13) (If the answer is "No", →1-15)

1-13. Where did you move to after the cyclone?

a. Cyclone shelter b. Top of Polder c. Friend's house d. Killa

e. Out of the polder (Prefecture: Thana:)

f. Other ()

1-14. How long did you stay there?

() Months/Weeks/Days

1-15. What was the worst damage you had about the cyclone?

a. Family member(s) passed away b. Family member(s) got injured c. Had to rebuild the house d. Lost live stocks e. Lost the job f. long time needed for restoration

g. Other ()

1-16. Would you draw a map of your village and the location of cyclone shelter?

(*please make sure that direction and distance is indicated.)

2. Affected Situation of the Worst Cyclone

Please tell us the damage at the worst cyclone you had most recently.

2-1. Were there any causality in your family?

a. Yes b. No

(If the answer is "Yes", → 2-2) (If the answer is "No", → 2-4)

2-2. How many people were died or injured in your family?

Dead: (No.), Injured : (No.)

2-3. Where was (were) the person(s) at that time?

a. Inside of the house b. Working outside c. Fixing the house d. On the way to Evacuate

e. Fixing electrical setting f. Other ()

2-4. What kind of damage did your house get by the cyclone?

(Multiple answers allowed)

a. Mud came into the house b. Trees came into the house c. House was un-useable after the cyclone d. house was useable after the cyclone

e. Other ()

2-5. Did you lose livestock?

a. Yes b. No

(If the answer is "Yes", →2-6) (If the answer is "No", 2-7)

2-6. How many livestock did you lose by the cyclone?

Cow () Poultry () Goat () Sheep () Other (,No.)

2-7. How long was your house inundated by the tidal surge that came from the Cyclone?

From (:) h am / pm of (/ /) (day/month/year)

to (:) h am / pm of (/ /) (day/month/year)

2-8. What was the inundation level at your residence at the time of the cyclone?

() Feet

a. Knee-High b. Stomach-High c. Shoulder-High d. Above your Head

3. Evacuation Behavior in Disaster of Worst Cyclone

Please tell us your behavior when the worst cyclone you had most recently.

3-1. When was your first time to get the information about the cyclone?

(:) h am / pm of (/ /) (day/month/year)

3-2. How did you get the information about the cyclone?

(Multiple answers allowed)

a. Radio b. Microphone announcement through CPP c. community loud speaker
d. Religious Leaders e. Community Leaders f. Neighbors g. Teachers h. Market
i. TV j. Mosque k. Police l. BDR m. NGO n. Flag hoisting o. UP Members
p. Community volunteers q. Others ()

3-3. What did the information say about the strength of the cyclone at that time?

a. Signal 1 b. Signal 2 c. Signal 3 d. Signal 4 e. Signal 5 f. Signal 6 g. Signal 7 h.
Signal 8 i. Signal 9 j. Signal 10 k. Signal 11 l. Other ()

3-4. What time did it start raining?

(:) h am / pm of (/ /) (day/month/year)

3-5. What time did it start raining hard?

(*Raining hard= you cannot hear what the person next to you say.)

(:) h am / pm of (/ /) (day/month/year)

3-6. Did you get any information about the cyclone when it started raining hard?

(Multiple answers allowed)

- a. Radio
- b. Microphone announcement through CPP
- c. Community loud speaker
- d. Religious Leaders
- e. Community Leaders
- f. Neighbors
- g. Teachers
- h. Market
- i. TV
- j. Mosque
- k. Police
- l. BDR
- m. NGO
- n. Flag hoisting
- o. UP Members
- p. Community volunteers
- q. Others ()
- r. I did not get any information

3-7. What did the information say about the strength of the cyclone at that time?

- a. Signal 1
- b. Signal 2
- c. Signal 3
- d. Signal 4
- e. Signal 5
- f. Signal 6
- g. Signal 7
- h. Signal 8
- i. Signal 9
- j. Signal 10
- k. Signal 11
- l. Other ()

3-8. what was your impression at that time?

- a. Have to evacuate as soon as possible
- b. Have to fix the house
- c. Have to fix the polder
- d. It would stop raining soon
- e. Other ()

3-9. What time did it start windy?

(:) h am / pm of (/ /) (day/month/year)

3-10. Did you get any information about the cyclone at that time?

(Multiple answers allowed)

- a. Radio
- b. Microphone announcement through CPP
- c. Community loud speaker
- d. Religious Leaders
- e. Community Leaders
- f. Neighbors
- g. Teachers
- h. Market
- i. TV
- j. Mosque
- k. Police
- l. BDR
- m. NGO
- n. Flag hoisting
- o. UP Members
- p. Community volunteers
- q. Others ()
- r. I did not get any information

3-11. What did the information say about the strength of the cyclone at that time?

- a. Signal 1
- b. Signal 2
- c. Signal 3
- d. Signal 4
- e. Signal 5
- f. Signal 6
- g. Signal 7
- h. Signal 8
- i. Signal 9
- j. Signal 10
- k. Signal 11
- l. Other ()

3-12. What was your impression at that time?

- a. Have to evacuate as soon as possible
- b. Have to fix the house
- c. Have to fix the polder
- d. It would stop raining soon
- e. Other ()

3-13. What time did it start windy hard?

(*Windy hard= you cannot hear what the person next to you say.)

(:) h am / pm of (/ /) (day/month/year)

3-14. Did you get any information about the cyclone at that time?

(Multiple answers allowed)

- a. Radio
- b. Microphone announcement through CPP
- c. Community loud speaker
- d. Religious Leaders
- e. Community Leaders
- f. Neighbors
- g. Teachers
- h. Market
- i. TV
- j. Mosque
- k. Police
- l. BDR
- m. NGO
- n. Flag hoisting
- o. UP Members
- p. Community volunteers
- q. Others ()
- r. I did not get any information

3-15. What did the information say about the strength of the cyclone at that time?

- b. Signal 1
- b. Signal 2
- c. Signal 3
- d. Signal 4
- e. Signal 5
- f. Signal 6
- g. Signal 7
- h. Signal 8
- i. Signal 9
- j. Signal 10
- k. Signal 11
- l. Other ()

3-16. What was your impression at that time?

- a. Have to evacuate as soon as possible
- b. Have to fix the house
- c. Have to fix the polder
- d. It would stop raining soon
- e. Other ()

3-17. What time did the tidal surge reach your house?

(:) h am / pm of (/ /) (day/month/year)

3-18. Did you get any information about the cyclone at that time?

(Multiple answers allowed)

- a. Radio
- b. Microphone announcement through CPP
- c. Community loud speaker
- d. Religious Leaders
- e. Community Leaders
- f. Neighbors
- g. Teachers
- h. Market
- i. TV
- j. Mosque
- k. Police
- l. BDR
- m. NGO
- n. Flag hoisting
- o. UP Members
- p. Community volunteers
- q. Others ()
- r. I did not get any information

3-19. What did the information say about the strength of the cyclone at that time?

- c. Signal 1
- b. Signal 2
- c. Signal 3
- d. Signal 4
- e. Signal 5
- f. Signal 6
- g. Signal 7
- h. Signal 8
- i. Signal 9
- j. Signal 10
- k. Signal 11
- l. Other ()

3-20. What was your impression at that time?

- a. Have to evacuate as soon as possible
- b. Have to fix the house
- c. Have to fix the polder
- d. It would stop raining soon
- e. Other ()

3-21. Did you evacuate when the cyclone attacked?

- a. Yes b. No

(if the answer is “Yes”, → 3-22) (if the answer is “No”, → 3-36)

3-22. What time did you evacuate?

(:) h am / pm of (/ /) (day/month/year)

3-23. How did you evacuate?

- a. On foot b. By a boat, c. By a bicycle d. Other ()

3-24. What was the reason you decided to evacuate?

(Multiple answers allowed)

- a. I heard a warning b. I thought the wave would reach my house soon
c. Other ()

3-25. Where did you evacuate to?

- a. Cyclone shelter b. Top of polder c. Other’s house d. Killa
e. Top of trees f. Top of own house g. Schools h. Mosques i. Temple
j. Other ()

3-26. How many persons were there?

(No.)

3-27. Did you think the place where you evacuated was safe?

- a. Yes b. No

(if the answer is “Yes”, → 3-29) (if the answer is “No”, → 3-28)

3-28. Which place is safe to evacuate?

(Multiple answers allowed)

- a. Cyclone Shelter b. Top of polder c. Other’s house d. Killa e. Top of Trees
f. Top of Own House g. Schools h. Mosques i. Temple
j. Other ()

3-29. With whom did you evacuate?

(Multiple answers allowed)

- a. Husband/wife b. Children c. Parents (Elder persons) d. Brothers/Sisters
e. Neighbors f. Other ()

- h. I do not want to pay to use the shelter
- i. Alarm is not always true
- j. It is unavoidable because Allah set so
- k. Other ()

3-34. When you evacuated, what did you bring?

(Multiple Answers Allowed)

- a. Cash b. Livestock c. Food d. Working tools (for fishing/for farming) e. Radio
- f. Mobile phone g. Cooking tool h. Table i Chair j Bed k. Sleeping mat/blanket
- l. Aluminum roof m. Van n. Bicycle o. Clothes (sari etc.)
- p. Stationary (pen, note, etc.) q, Nothing
- r. Other ()

3-35. What did you want to bring to the evacuation site if it was possible?

(Multiple Answers Allowed)

- a. Cash b. Livestock c. Food d. Working tools (for fishing/for farming) e. Radio
- f. Mobile phone g. Cooking tool h. Table i Chair j Bed k. Sleeping mat/blanket
- l. Aluminum roof m. Van n. Bicycle o. Clothes (sari etc.)
- p. Stationary (pen, note, etc.) q, Nothing
- r. Other ()

3-36. What was the reason you didn't evacuate?

(Multiple answers allowed)

- a. I do not think the waves will reach my house
- b. early warning is not always true
- c. To keep my livestock around
- d. To prevent theft or robbery
- e. To secure the income of the day
- f. Worry to separate family
- g. I do not want to pay to use the shelter
- h. The road to go to evacuation site is bad
- i. Evacuation site is far
- j. Storm is too strong to take shelter
- k. To protect the house
- l. I didn't know the cyclone comes
- m. I think my residence is safer than other places.

- n. It is unavoidable because Allah set so
- o. Other ()

4. Shelter & Polder system in Community

4-1. When the cyclone attacked, did you know where cyclone shelter was?

- a. Yes
- b. No

4-2. Distance from residence to the nearest shelter:

() km

4-3. How long do you need to reach to the shelter in ordinary time?

() minutes on foot

4-4. How many people can stay in the shelter?

(No.)

4-5. When the cyclone attacked, was the road to the shelter usable?

- a. Yes
- b. No

4-6. Do you think the shelter is safe for women?

- a. Yes
- b. No

4-7. What is the Problem of Cyclone shelter?

(Multiple answers allowed)

- a. Too many people
- b. Lack of sanitation
- c. Lack of water
- d. No separate space for women
- e. Lack of maintenance
- f. No problem
- g. Other ()

4-8. Can you bring your wife to the shelter with you? (Can your husband bring you to the shelter?)

- a. Yes
- b. No

(If the answer is "Yes", → 4-10) (If the answer is "No", →4-9)

4-9. What was the reason you can't you bring your wife with you? (What is the reason that your husband can't bring you?)

(Multiple answers allowed)

- a. She is usually working in the field
- b. Women should not go out
- c. Livestock should be kept by women
- d. Shelter is not safe for women
- e. Other ()

5. Situation of Community disaster prevention

Please tell us disaster prevention system in your village.

5-1. What kind of organizations does exist in your village? (Multiple answers allowed)

- a. Water management group
- b. School management committee
- c. Mosque committee
- d. CPP
- e. Parents' association
- f. Water uses committee
- g. Other 1()
- h. Other 2()
- i. Other 3()
- j. Other 4()
- k. Other 5()

5-2. What are the function of the organization above?

- a. Water management group:
()
- b. School management group:
()
- c. Mosque committee:
()
- d. CPP:
()
- e. Parents' association:
()
- f. Water uses committee:
()
- g. Other 1:
()
- h. Other 2:
()
- i. Other 3
()

j. Other4

()

k. Other 5

()

5-3. Is there a hazard map in your village?

a. Yes b. No

(*if Yes, please take a photo copy or take a picture of the map.)

5-5. Do you know the area of danger in your village?

a. Yes b. No

(If Yes, →5-6) (If No, →5-7)

5-6. Would you indicate where the dangerous area is in the village map you draw in the beginning?

5-7. Would you indicate the areas where inundated by the tidal surge at the time of the cyclone?

5-8. Do you have radio (it can be use)?

a. Yes b. No

5-9. Do you have portable radio and bring with you anytime?

a. Yes b. No

5-10. Do you have mobile phone (it can be use)?

a. Yes b. No

(If the answer is "Yes", →5-11) (If the answer is "No", →5-12)

5-11. Can you listen to radio using your mobile phone?

a. Yes b. No

5-12. When was your mobile phone turned off due to out of battery at the time of the cyclone?

(:) h am / pm of (/ /) (day/month/year)

6. Assistant for community after cyclone damage/ reconstruction process

Please tell us the situation after the cyclone.

6-1. When did the main road of your village become usable after the cyclone attacked?

After () days, weeks, months, years

6-2. Who did fix the road?

a. Community people b. NGO (Name:) c. Government
d. Other ()

6-3. When was the school resumed after the cyclone attacked?

After () days, weeks, months, years

6-4. When did you resume your work after the cyclone attacked?

After () days, weeks, months, years

6-5. How long did it take for electricity recovery after the cyclone attacked?

After () days, weeks, months, years

6-6. When did you receive the first rationed goods after the cyclone?

After () days, weeks, months, years

6-7. Did you contact to any organizations/persons to receive a support when the cyclone attacked?

a. Yes b. No

(If the answer is "Yes", →6-8) (If the answer is "No", 6-10)

6-8. Which organizations did you contact to receive the support?

a. Neighbor b. Village leader c. Member of UP d. NGO (Name:)
e. Other ()

6-9. How did you contact them?

a. Via mobile phone b. Visited the office on foot c. visited the office by a boat
d. Other ()

6-10. Who did report the damage to receive the support?

a. village head b. Neighbor c. Religious leader d. Teacher e. Nobody reported

6-11. From where did you receive the rationed goods?

(Multiple answers allowed)

- a. Government b. NGO (Name: _____) c. Neighbors
d. Other (_____)

6-12. What kind of rationed goods did you receive after the cyclone?

(Multiple answers allowed)

- a. Rice b. Wheat c. Water d. Oil e. Cooking tools f. Tent g. Plastic sheet
h. Blanket i. Cash j. Other (_____)

6-13. How long did you receive the rationed goods?

For (_____) days/ weeks/ months/ years

6-14. What kind of support are you receiving now?

- a. VGD b. Cash for Work c. Food for Work d. Housing Cash Grant (_____ Tk/month)
e. Nothing f. Others (_____)

6-15. What kind of rationed goods do you receive now?

- a. Rice b. Wheat c. Water d. Oil e. Cash f. Nothing
g. Other (_____)

6-16. Did you use microcredit system for reconstruction for living?

- a. Yes b. No

(if the answer is "Yes", → 6-17) (if the answer is "No",→ 6-19)

6-17. How much did you borrow?

(Total: _____ tk)

6-18. Where did you borrow money from?

(Multiple answers allowed)

- a. Grameen Bank b. BRAC c. ASA d. Ganamukhi e. SUS f. Caritas
g. Krishi Bank h. BRDB
i. Other (_____)

6-19. Did you have debt of microcredit before the cyclone?

- a. Yes b. No

(if the answer is "Yes"→6-20) (if the answer is "No"→6-22)

6-20. Did you have debt moratorium after the cyclone?

- a. Yes b. No

(if the answer is "Yes" → 6-21) (if the answer is "No" → 6-22)

6-21. How long debt moratorium was?

() months

6-22. What kind of assistance you expected to receive to restore your life?

Item	Timing
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

Thank you very much for your cooperation.

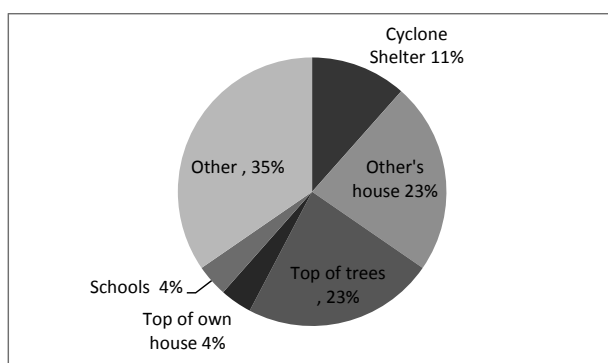
Summary of Community Survey Result

Bagerhat District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Mongla	Chila	Kolabari	10	3	2013/4/17
Saronkhola	Ryanda	Jibunia	10	3	2013/4/23
Saronkhola	Southkhali	North southkhali	10	3	2013/4/20

2. Evacuation Rate and Information Sources



The evacuation rate was about 86% among the respondents of the basic questionnaire. In Mongla Upazila, there were no cyclone shelters in around the survey area, so people evacuated to schools and other evacuation sites. In Saronkhola Upazila, the survey area did not have

enough the cyclone shelters as same as other survey areas, and only 15% of the respondents evacuated to cyclone shelters. The figure above shows evacuation sites. “Other” indicates people who evacuated by boat. The percentage of people who evacuated to tree tops and house tops was high and therefore, the percentage of people who could evacuated to safe places was low.

3. Detail Questionnaire Survey Result

Aila was the worst cyclone in recent years in MonglaUpazila, whereas Sidr was the worst in other survey areas in the district. Sidr is the focus for “Recognition of Cyclone” and “Evacuation” columns below.

Recognition of Cyclone	<p>All respondents received information about Sidr beforehand. A respondent got information 2 days before the cyclone. Majority of respondents got information 1 day before, but some respondents got information just before the cyclone.</p> <p>The major information sources were radio, information from the community, mosques, neighbors, and UP members.</p>
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Evacuation	<p>Situation when cyclone attacked</p> <p>When the wind started blowing hard, about the half of the respondents felt they had to evacuate, and the rest of the respondents felt they had to fix their houses. Most of the respondents answered all information sources went to unavailable from the early evening of the day of Sidr. In that situation, most of them evacuated after inundation started.</p> <p>Evacuatoin</p> <p>4 respondents out of 6 respondents evacuated. The reason of evacuation was inundation. Some of them mentioned that his house washed away, and his family evacuated to tree tops.</p> <p>On the contrary, respondents who did not evacuate answered that they did not do so to protect their livestock, to protect their property from theft and because of road condition.</p> <p>Human casualty</p> <p>2 respondents answered that they had casualty in their households. one of them was the one who evacuated to tree tops, and a family member passed away and 3 family members got injured. It shows importance of CBDRM activity to evacuate safely to safe evacuation sites.</p>
Evacuation Site	<p>From this section, all 9 respondents are focused. 6 respondents answered they evacuated. The evacuation sites were cyclone shelters (3 people), neighbor's house (1 person), tree top (1 person).</p> <p>The median value to the nearest cyclone shelter is 15 minutes.</p> <p>All the respondents mentioned about problems of cyclone shelters. Major problems were lack of water, lack of maintenance of sanitation facility, lack of the number of cyclone shelters, lack of separate space for women, lack of maintenance of cyclone shelter.</p>
Emergency Relief	<p>Major relief supplies were rice and water. Many respondents visited governmental offices or NGO to ask for relief supplies. Suppliers of the supplies were the government and NGO, especially BRAC.</p>
Reconstruction	<p>The income level has recovered for the majority of the respondents, but the income level of the sufferers of Aila hasen't recovered yet.</p> <p>The number of respondents who used micro credit was 3.</p>
Demand on Assistance	<p>The demands on assistance are as follows: Equipment of early warning, water, construction of embankment and house.</p>

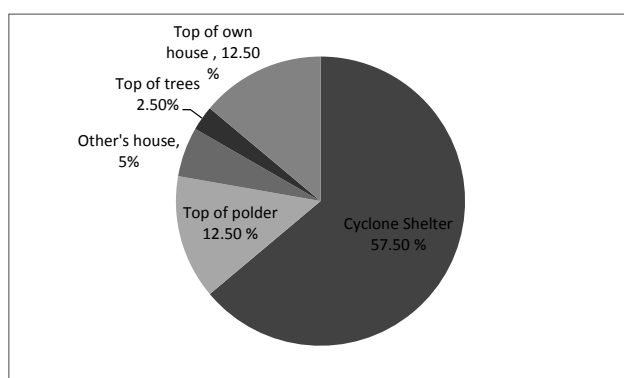
Khulna District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Dacope	Kamarkhola	Joyngar	10	3*	2013/5/24
Dacope	Sutarkhali	-Nolyan, -Gunayi -Kalabogi	3 1 6	0 2 1	2013/5/20 2013/5/20 2013/5/20
Koyra	South Bathkashi	Angtikhara	10	3	2013/5/17
Koyra	North Bathkashi	Gabunia	10	3	2013/5/17

* : number of respondents for questionnaire of Mahasen

2. Evacuation Rate and Information Sources



The evacuation rate was 90%. According to the answer of the respondents, 30-35% of the Upazilas are outside of the area of warning. In Koyra Upazila, 75% of respondents evacuated to cyclone shelters, but many respondents in Dacope Upazila evacuated to tree tops or house tops. Major

information sources were radio, TV, neighbors and mosques.

3. Detail Questionnaire Survey Result

All respondents answered that Aila was the worst cyclone in recent years.

Recognition of Cyclone	8 in 9 respondents answered that they got information about Aila beforehand. Many people got information through radio. Other information sources were mosques and neighbors. Majority of people got the first information about the cyclone in the early evening of the day before Aila hit or morning of the day Aila hit.
Evacuation	Situation when cyclone attacked When the wind started blowing strong, they did not have any information sources. Almost all respondents answered there would be no chance to survive.

	<p>Evacuation</p> <p>Only 4 people out of 9 evacuated. Major reason of evacuation was houses washed away. 2 people evacuated to the top of embankment.</p> <p>The reasons of no evacuation were as follows:</p> <ul style="list-style-type: none"> ➤ Bad condition of road ➤ The storm was too strong ➤ To avoid separation of family ➤ Warning is not true ➤ To protect house <p>Human casualty</p> <p>2 people answered that they had casualty in their households. One was on the way of evacuation, and the other was during house repair.</p>
Evacuation Site	<p>Major evacuation sites were cyclone shelters and the top of embankment.</p> <p>The median value to the nearest cyclone shelter was 15 minutes.</p> <p>As problems of cyclone shelters, the respondents answered lack of cyclone shelters, lack of water, lack of maintenance of sanitation facility, lack of separate space for women, lack of daily maintenance of cyclone shelters.</p>
Emergency Relief	<p>The major emergency relief supplies were rice, water, tent and blanket.</p> <p>All respondents received the supplies from the government or NGOs (JJS, BRAC, Islamic relief etc.). The respondents contacted to village leaders and UP members to ask for relief supplies.</p>
Reconstruction	<p>6 respondents answered that their current income level is lower than that of before the cyclone attacked. Among the respondents, 4 people answered that their income level is more than or nearly half of that of before the cyclone.</p> <p>3 respondents used micro credit for reconstruction.</p>
Demand on Assistance	<p>The demands on assistance were as follows: food, livestock, training on disaster management and seeds.</p>

4. Evacuation during MahasenTime

Please refer to “Behavior during Mahasen Time” in the same Appendix.

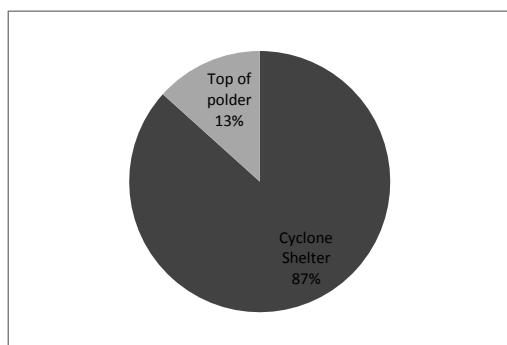
Satkhila District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Shamnagar	Gabura	-Parshimary	1		2013/5/27
		-10. no Sura gram	9	1*	2013/5/27
		-Chadni -Mukha		1*	2013/5/27
		-Zelia Khaly		1*	2013/5/27
Shamnagar	Padmapkur	-Baintola	2		2013/5/28
		-Pakhimara	8		2013/5/28

* : number of respondents for questionnaire of Mahasen

2. Evacuation Rate and Information Sources



Since the survey date was after Mahasen, we asked about the situation about Mahasen. All of the respondents answered that they got information about the cyclone beforehand. However, the evacuation rate was 80%. Majority of the respondents got information through radio and CPP. Most of the evacuees took shelters at cyclone shelters, but 13% of

them answered they evacuated to the top of embankment.

3. Evacuation during MahasenTime

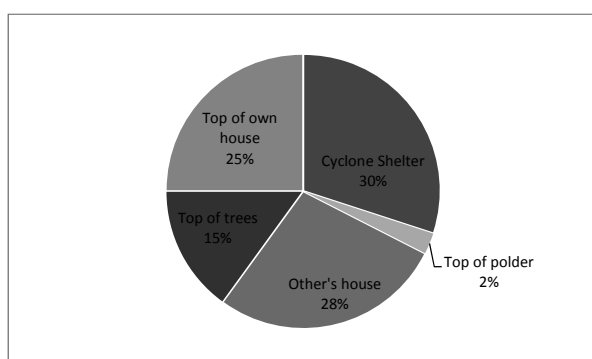
Please refer to “Behavior during Mahasen Time” in the same Appendix.

Barguna District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Barguna Sadar	Badarkhali	Majherchar	10	3	2013/5/24
Barguna Sadar	Naltona	Sonatala	10	3	2013/5/20
Patharghata	Charduanti	Charduanti	10	3	2013/5/17
Patharghata	Patharghata sadar	Padma	10	3	2013/5/17

2. Evacuation Rate and Information Sources



All respondents answered Sidr was the worst cyclone in recent years. All of them received information beforehand, and major information sources were CPP community leaders and radio. The evacuation rate was 100%. Most of the respondents in Barguna Sadar went to cyclone shelters whereas a half

of them in Patharghata Upazila went to house tops.

3. Detail Questionnaire Survey Result

The Interview was given to 12 households. As same as the respondents of basic questionnaire, they answered Sidr was the worst cyclone.

Recognition of Cyclone	A respondent got information about Sidr 2 days before it attacked. On the contrary, the latest person got information just before it attacked.
Evacuation	<p>Situation when cyclone attacked</p> <p>According to the answers, it was raining and windy in the morning of the day of Sidr in the survey area. At this time, majority of the respondents were thinking that it would get well soon. Rain and wind got stronger in the evening. The signal was 6 to 10 at this time, according to their answers. At this time, 3 people were thinking they</p>

	<p>had to evacuate. 4 people did not know what to do, 5 people were still thinking it would get well soon and a person thought he should have been fine if he stayed inside of his house.</p> <p>Inundation started after that. At this time, 3 people were thinking that they had to evacuate, 4 people did not know what to do, 4 people were still thinking it would get well soon. The rest were thinking about house repair.</p> <p>Evacuation</p> <p>The number of respondents who evacuated was 6.</p> <p>The reasons of evacuation were as follows:</p> <ul style="list-style-type: none"> -By hearing warnings/because inundation started: 2 people -Because the level of inundation was getting high: 4 people <p>On the other hand, the reasons of no evacuation were as follows:</p> <ul style="list-style-type: none"> -Bad condition of road -Too far from cyclone shelter -The storm was too strong -To protect house -Because Allah said so <p>There is huge time gap between they got information at the first time and evacuation. They waited until they actually felt the danger by themselves.</p> <p>Human casualty</p> <p>11 respondents answered that they had casualty in their households. in the 11 respondents, it happened during evacuation (5 households) and inside of their houses (6 households).</p>
Evacuation Site	<p>3 respondents took shelters at cyclone shelters. The rest of 3 respondents evacuated to neighbor's houses.</p> <p>The median value to cyclone shelters is about 32 minutes.</p> <p>All respondents thought cyclone shelters have problems. Major answers were lack of the number of cyclone shelters, lack of maintenance of sanitation facility, lack of water, lack of separate space for women and lack of daily maintenance of cyclone shelters.</p>
Emergency Relief	<p>All respondents received relief supplies. Major relief supplies were flour, water, oil, tent and cash. Some respondents received them the following day the disaster hit.</p>
Reconstruction	<p>5 respondents answered their income level is lower than that of before the cyclone.</p> <p>3 respondents used micro credit for reconstruction.</p>

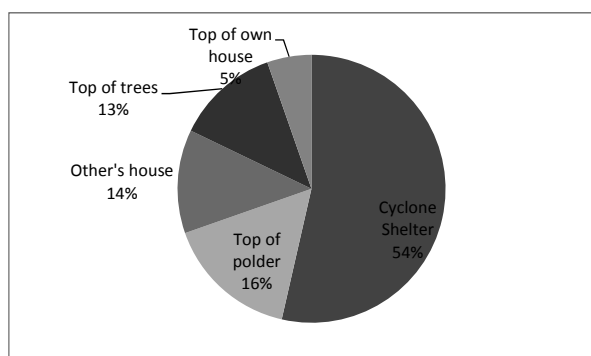
	The median value of work resumption, school resumption and road recovery were 60 days, 75 days and 120 days.
Demand on Assistance	Demands on assistance are as follows: construction of embankment, construction of cyclone shelter and early warning equipment.

Bhola District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Char Fession	Char Madraj	-Char Neuton	3		2013/4/18
		-Mohammdpur	7	3	2013/4/18
Char Fession	Dar Char	Keramotgong	10	3	2013/4/17
Lalmohan	Dholigour Nagar	-Purbo Dhaligour Nagar	10	3	2013/4/3
Lalmohan	Lord Harding	Soyadabath	10	3	2013/4/11
Manpur	Hazirhat	Char Jotin	10	3	2013/4/22
Manpur	Manpura Union Parisad	Purbo Andir Par	10	3	2013/4/23

2. Evacuation Rate and Information Sources



All respondents answered Aila was the worst cyclone in recent years. The evacuation rate was about 93%. Bhola is an island district, and the result shows there is a problem on information transfer. All respondents could get information beforehand in Char Fession Upazila. However, 25% of the

respondents in Lalmohon Upazila and 40% of the respondents in Monpura Upazila could not get information beforehand. Major information sources were CPP followed by mosques and neighbors.

3. Detail Questionnaire Survey Result

All 18 respondents of detail questionnaire answered that Aila was the worst cyclone in recent years.

Recognition of Cyclone	A respondent got information about Aila a day before Aila. But most of the respondents could not get information until in the morning of the day of Aila.
Evacuation	Situation when cyclone attacked According to the answers, it started raining in the morning of the day

	<p>of Aila. When it started raining and it got windy, most of respondents though it “as usual”, or though it would get well soon. When it got rainy hard, responses of the respondents were: “have to evacuate soon (17 people), “it would get well soon” (5 people), “won’t be able to survive” (3 people), “have to repair house” (2 people).</p> <p>Evacuation</p> <p>14 respondents out of 18 answered they evacuated when Aila attacked. The reasons of evacuation was</p> <p>“inundation would start soon” (9 people)</p> <p>“ repeated warnings” (2 people)</p> <p>“inundation level got high” (2 people)</p> <p>It took time to evacuate after they got information and warnings about the cyclone as same as other survey areas.</p> <p>Human casualty</p> <p>7 respondents answered that they had casualty in their households. among the respondents, it happened on the way of evacuation in 6 households.</p>
Evacuation Site	<p>14 respondents evacuated to cyclone shelters (9 people), the top of embankment (2 people), neighbor’ house, killa, house top (1 each).</p> <p>The median value to cyclone shelters is about 30 minutes.</p> <p>All respondents answered about problems on cyclone shelters. Major concern was lack of the number of cyclone shelters, lack of maintenance of sanitation facility, lack of separate space for women, lack of water and lack of daily maintenance of cyclone shelters.</p>
Emergency Relief	<p>Major relief supplies were: flour, water, oil, tent and cash.</p> <p>A respondent received the supplies after 6 hours of the disaster.</p> <p>Suppliers were NGOs such as BRAC and Save the Children.</p> <p>The respondents visited village head and UP members to inform about damage.</p>
Reconstruction	<p>9 respondents responded their income level is lower than that of before the cyclone.</p> <p>The number of respondents who used micro credit was 9.</p> <p>The median value to resume their work was about 13 days. The median value of school resumption was 10 days, and it took about 7 days for road recovery.</p>
Demand on	<p>Demands on assistance are as follows: training on disaster</p>

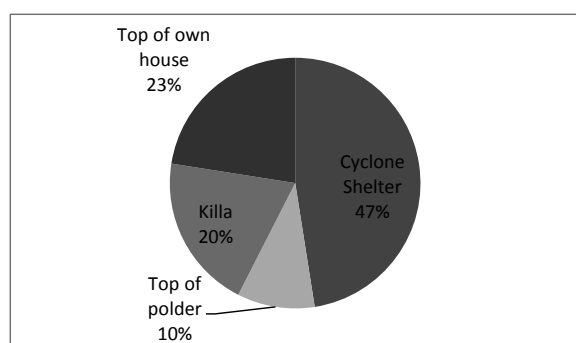
Assistance	management, land, cash, livestock, house, vehicle for warning/evacuation and seeds.
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Patuakhali District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Galachipa	Amkhola	Bowria	10	3	2013/3/29
Galachipa	Ratandi Taltali	Nij Howla	10	3	2013/3/26
Kalapara	Lata Chapli	Musulliyabad	10	3	2013/3/30
Kalapara	Tiakhali	East Tiyakhali	10	3	2013/4/1

2. Evacuation Rate and Information Sources



The respondents of the basic questionnaire answered that Aila was the worst cyclone in recent years. Almost all respondents got information beforehand. Major information sources were CPP, mosques and radio. About the half of the respondents evacuated to cyclone shelters, and others evacuated to

embankment and house tops.

3. Detail Questionnaire Survey Result

Although a few respondents answered Sidr was the worst cyclone, Aila is the focus for “Recognition of Cyclone” and “Evacuation” columns below.

Recognition of Cyclone	5 respondents answered Aila was the worst cyclone in recent years. Among the respondents, 4 of them could get information about the cyclone beforehand. However, first information acquisition was day time of the day of Aila.
Evacuation	Situation when cyclone attacked It started raining at day time of the day Aila attacked. The rain and wind got strong in the evening. Only 1 respondent evacuated at this moment. Other respondents were thinking it would get well soon, or they had to go to tell the warning to community people as village leaders.

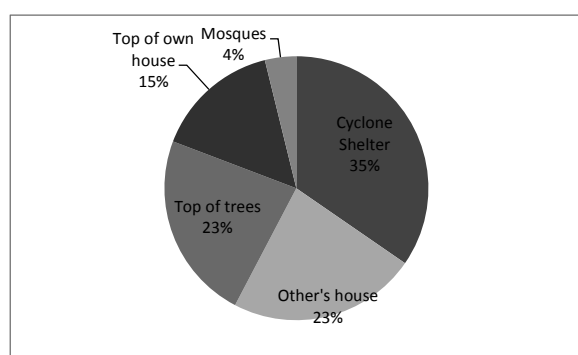
	<p>Evacuation</p> <p>3 people evacuated. The reasons of evacuation were</p> <ul style="list-style-type: none"> -because the roof was blown away -because the level of inundation became high -because of repeated warnings <p>The reasons of no evacuation were they had to tell the warning to the community people.</p> <p>Human casualty</p> <p>1 respondent answered there was casualty in his household on the way of evacuation.</p>
Evacuation Site	<p>Major evacuation site was embankment. This shows scarcity of cyclone shelters. The median value to the nearest cyclone shelters was 22 minutes.</p> <p>All respondents answered problems on cyclone shelters such as lack of maintenance of sanitation facility, lack of separate space for women, lack of water, lack of the number of cyclone shelters, lack of daily maintenance of cyclone shelters.</p> <p>The percentage of respondents who thought cyclone shelters were not safe for women was higher than other survey districts.</p>
Emergency Relief	<p>Major relief supplies were rice, flour, oil, tent, cash, clothes and so on.</p> <p>Almost all respondents visited village leaders and UP members to ask for relief supplies. NGOs such as HID Bangladesh, Save the Children were also the main suppliers of relief suppliers.</p>
Reconstruction	<p>5 respondents among the 12 respondents answered that their income level was lower than that of before the cyclones.</p> <p>7 respondents used micro credit for reconstruction.</p> <p>The median values to resume their works were 30 days, school resumption was 11 days and road recovery was 9 days.</p>
Demand on Assistance	<p>Demands on assistance were training on disaster management, livestock, house, equipment for early warning and food for work.</p>

Pirojpur District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Mathibaria	Baramasua	Khejor Baria	10	3	2013/3/27
Mathibaria	Bethmore Rajpara	Majherchar	10	3	2013/ 3/ 25

2. Evacuation Rate and Information Sources



Sidr was the worst cyclone in recent years for majority of the respondents. Although all respondents answered evacuated, many respondents evacuated to tree tops and house tops. Main information sources were CPP, community leaders and radio.

3. Detail Questionnaire Survey Result

All respondents of the detail questionnaire answered Sidr was the worst cyclone.

Recognition of Cyclone	All respondents got information beforehand. Some respondent got information 2 days before, but some got information just before the cyclone.
Evacuation	<p>Situation when cyclone attacked</p> <p>Though signal was relatively high, many respondents thought it would get well soon. Only 1 respondent evacuated at the early stage.</p> <p>Evacuation</p> <p>3 people evacuated and 3 people did not evacuate. Reasons of evacuation were</p> <ul style="list-style-type: none"> -Because of repeated warnings -Because of inundation <p>Reasons of no evacuation were</p> <ul style="list-style-type: none"> -Warning is not true -Because Allah said so <p>Human casualty</p> <p>4 respondents answered they had casualty in their households. It</p>

	happened on the way of evacuation and inside of houses.
Evacuation Site	<p>3 people who evacuated got shelters at cyclone shelters or neighbors' houses. The median value to the nearest cyclone shelter was 20 minutes.</p> <p>Major problems on cyclone shelters were lack of cyclone shelters, lack of maintenance of sanitation facility, lack of separate space for women, lack of water, lack of daily maintenance of cyclone shelters.</p>
Emergency Relief	<p>Major relief supplies were rice, flour, water and tent. Some respondents visited NGOs and UP office to report the damage.</p> <p>Suppliers were NGOs such as BRAC, RIC and Proshila as well as the government.</p>
Reconstruction	<p>1 respondent answered the income level is lower than before the cyclone. For example. the income was 10,000 BDT before, but it is currently 2,000BDT.</p> <p>No one used micro credit for reconstruction.</p> <p>The median values for road recovery, school resumption, work resumption were 33 days, 45 days and 45 days.</p>
Demand on Assistance	<p>Demands on assistance were construction of embankment, equipment for early warning, construction of cyclone shelter and training of CPP and establishment of CPP Union office.</p>

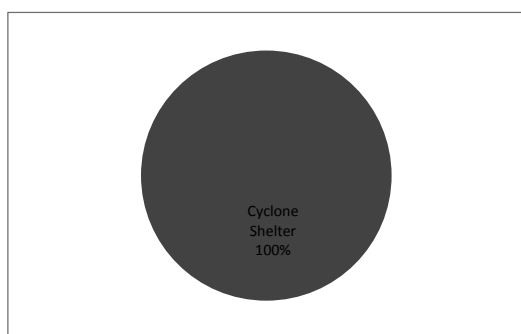
Chittagong District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Bashkhali	Baharchhara	-Purbo Baharchora -Rotnapur	10	2	2013/5/14
Bashkhali	Chhonua	Chonua	10	3	2013/ 5/19
Sandwip	Rahmatpur	Rohamatpur	10	3*	2013/5/22/
Sandwip	Sharikaito	Cokatoli	10	3*	2013/5/22

* : number of respondents for questionnaire of Mahasen

2. Evacuation Rate and Information Sources



2 respondents could not get information about the cyclone. However, all of them evacuated to cyclone shelters.

Information sources were CPP, mosques, radio and neighbors.

3. Detail Questionnaire Survey Result

Majority of respondents answered Sidr was the worst cyclone. Sidr is the focus for “Recognition of Cyclone” and “Evacuation” columns below.

Recognition of Cyclone	A respondent got information the day before the cyclone. Major information sources were radio, CPP and mosques.
Evacuation	<p>Situation when cyclone attacked Many respondents were thinking they have to evacuate at the early stage.</p> <p>Evacuation All respondents evacuated to cyclone shelters. The reason of evacuation was repeated warnings.</p> <p>Human casualty Some respondents answered they had casualty at their households</p>

	during evacuation or inside of their houses.
Evacuation Site	The median time to the nearest cyclone shelters was 12.5 minutes. Problems of cyclone shelters heard from the respondents were lack of maintenance of sanitation facility, lack of water, lack of daily maintenance of cyclone shelters and lack to separate space for women.
Emergency Relief	Major relief supply was rice. 4 respondents answered that they visited village leaders and UP office to ask for relief supplies.
Reconstruction	2 respondents answered the level of income decreased than that of before the cyclone. 4 respondents lost their livestock because of the cyclone. Livestock is very important and losing livestock affected negatively for reconstruction process. Only 1 respondent used micro credit. The median values for road recovery, school resumption and work resumption were 7.5 days, 17.5 days and 15 days.
Demand on Assistance	Demands on assistance were livestock, food, cash, house and clothes.

4. Evacuation during Mahasen Time

Please refer to “Behavior during Mahasen Time” in the same Appendix.

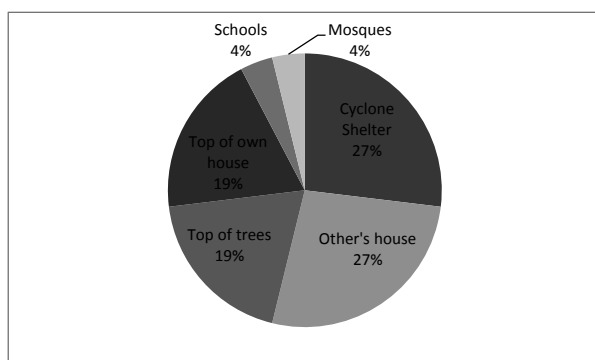
Cox's Bazar District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Kutbudia	Koiyarbill	Koyerbill	10	3*	2013/5/23
Kutbudia	Lemshikhali	Asa Hajerpara	10	-	2013/5/26
Moheshkhali	Kutubjum	Goti Bangga	10	-	2013/5/25
Moheshkhal	Materbari	Matarbari	10	3*	2013/5/21

* : number of respondents for questionnaire of Mahasen

2. Evacuation Rate and Information Sources



All respondents answered cyclone of 1991 was the worst cyclone in recent years. All of them got information beforehand. Information sources were CPP and community leaders.

As evacuation sites, cyclone shelters and neighbors' houses were the highest percentage (35% each).

3. Evacuation during Mahasen Time

Please refer to "Behavior during Mahasen Time" in the same Appendix.

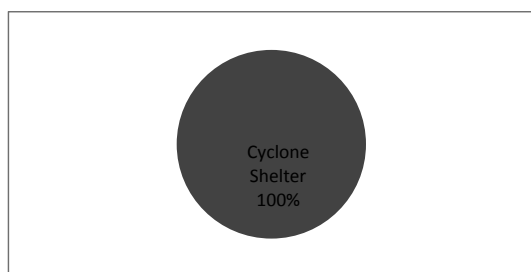
Feni District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Sonagazi	Char Chandia	West Char Chandia	10	3*	2013/5/30
Sonagazi	Char Darbesh	West Char Sabilari	10	3*	2013/5/28

* : number of respondents for questionnaire of Mahasen

2. Evacuation Rate and Information Sources



The survey date was after Mahasen, therefore, Mahasen is the focus here.

The information acquisition rate and the evacuation rate were 100%. Information sources were mosques and CPP. Radio is minor tool in the areas.

3. Evacuation during MahasenTime

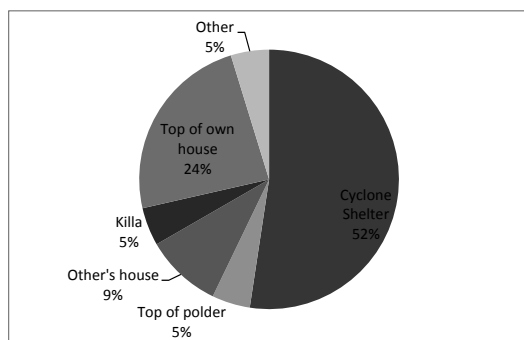
Please refer to “Behavior during Mahasen Time” in the same Appendix.

Lakshmipur District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Ramgati	Char Abdullah	-Char Gojaria -Telir Char	10	2 1	2013/4/9
	Char Alexander	-Asol Para -Sabuz Gram -Porchim Balurchar	10	2 1	2013/4/8

2. Evacuation Rate and Information Sources



75% of the respondents answered Aila was the worst cyclone in recent years. All respondents got information about the cyclones. The evacuation rate was 90%. Information sources were CPP and mosques. The major evacuation site was cyclone shelters, but some respondents answered they evacuated to house tops.

3. Detail Questionnaire Survey Result

5 respondents answered Aila was the worst cyclone in recent years. Aila is the focus for “recognition of cyclone” and “situation when cyclone attacked” under “evacuation” columns.

Recognition of Cyclone	4 respondents got information about the cyclone, but the rest of 1 respondent could not get any information before the cyclone.
Evacuation	<p>Situation when cyclone attacked</p> <p>The respondents were thinking they had to evacuate from the early stage, when the rain and wind were not that strong. However, they evacuated at late stage, when the rain and wind got strong and after inundation started.</p> <p>Evacuation</p> <p>5 respondents out of 6 evacuated when the cyclones attacked. The</p>

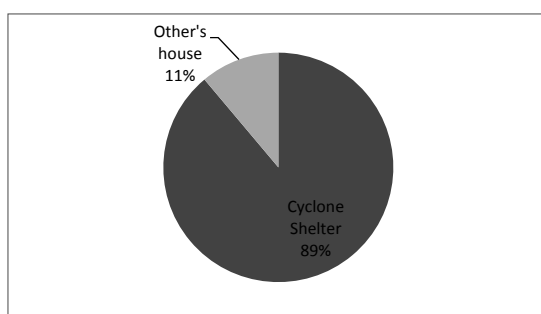
	<p>reasons of evacuation were repeated warnings and inundation. The reason of no evacuation was to protect livestock.</p> <p>Human casualty</p> <p>5 respondents answered they had casualty in their households during evacuation, inside of their houses and during house repair.</p>
Evacuation Site	<p>4 respondents evacuated to cyclone shelters and the rest of respondents evacuated to neighbors' houses. The median value to the nearest cyclone shelters was 30 minutes.</p> <p>All respondents answered about problems of cyclone shelters. The main problems were lack of water and lack of daily maintenance of cyclone shelters.</p>
Emergency Relief	<p>Major relief supplies were rice and cash.</p> <p>Almost all respondents visited village leaders and UP members to ask for relief supplies.</p>
Reconstruction	<p>Only 1 respondent answered the level of current income was lower than that of before the cyclone.</p> <p>No respondent used micro credit for reconstruction of their life.</p> <p>The median values for road recovery, school resumption and work were 30 days, 8 days and 10 days.</p>
Demand on Assistance	<p>Demands on assistance were as follows: house, livestock, seeds, cash and communication means for early warning.</p>

Noakhali District

1. Survey Area and Date

Upazila	Union	Village	Basic Questionnaire Respondents	Detail Questionnaire Respondents	Date (YYYY/M/DD)
Hatia	Jahaj Mara	Char Acar	10	3	2013/4/20
Hatia	Nizhum Dwip	Bondor Tila	10	3	2013/4/22
Subarna Char	Mohammadpur	Char Akram Uddin	10	3	2013/4/17
Subarna Char	Pobra Char Bata	Pobra Char Mojd	10	3	2013/4/18

2. Evacuation Rate and Information Sources



All respondents answered Aila was the worst cyclone in recent years. All of them got information about Aila, but the evacuation rate was 90%. Information sources were CPP, mosques and neighbors.

3. Detail Questionnaire Survey Result

11 respondents answered Aila was the worst cyclone in recent years. Aila is the focus for “recognition of cyclone” and “situation when cyclone attacked” under “evacuation” columns below.

Recognition of Cyclone	10 respondents got information about the cyclone. When they heard the warning for the first time, the signal was 3 or 4, according to their answers. 1 respondent could not get any information about the cyclone.
Evacuation	<p>Situation when cyclone attacked</p> <p>At the survey sites, the time when it got windy hard and the time when it started inundated was about the same. Most of them evacuated when it started inundation. At this moment, all information sources were unavailable.</p> <p>Evacuation</p> <p>11 respondents evacuated. The reasons of evacuation were repeated</p>

	<p>warnings, since inundation started, house washed away and to avoid family get separate.</p> <p>Human casualty</p> <p>6 respondents answered they had casualty in their households. Most of it happened at their houses. There is a possibility that unavailability of information sources led to delay on evacuation.</p>
Evacuation Site	<p>All evacuees evacuated to cyclone shelters.</p> <p>The median value to the nearest cyclone shelters was 30 minutes.</p> <p>Major problems of cyclone shelters were lack of daily maintenance of cyclone shelters, lack of maintenance of sanitation facility and lack of cyclone shelters.</p>
Emergency Relief	<p>4 respondents answered they did not receive any relief supplies. The suppliers were CPP members and UP office, but no NGO.</p>
Reconstruction	<p>Only 1 respondent answered his income decreased to 4000 BDT from 9000BDT after the cyclone.</p> <p>2 respondents used micro credit for reconstruction of their life.</p>
Demand on Assistance	<p>Demands on assistance were house, boat, livestock, cash and food.</p>

Basic Questionnaire Union Level Survey Result Summary (1/2)

District	Upazila	Union	worst cyclone Alla	worst cyclone Sidr	worst cyclone 1991	Mahasen	got information about the cyclone before the cyclone hit	didn't get any information about the cyclone before the cyclone hit	Information source													
									Micro phone announcement	Community Religious leaders	Community leaders	Neighbors	Teachers	Market	TV	Mosque	Police BDR					
Bagerhat	Mongla	Chila	10	0	0	0	0	5	6	0	7	1	0	0	0	3	0	0				
	Sharanikhola	South Khali	0	10	0	0	0	10	0	1	8	0	0	2	0	0	1	0	0			
	Ravanda		0	10	0	0	0	3	10	0	0	0	0	0	0	1	0	0	0			
Barisal	Barguna Sadar	Badar Khali	0	10	0	0	0	10	0	5	0	0	10	0	0	0	0	0	0			
		Naltona	0	10	0	0	0	10	0	7	2	0	0	10	0	0	0	6	0	0		
	Paithaghata	Charduanti	0	10	0	0	0	10	0	10	0	0	4	0	0	0	1	9	0	0		
		Paithaghata Sador	0	10	0	0	0	10	0	2	0	0	0	0	0	1	7	0	0	0		
Bhola	Char Fession	Char Madrai	0	10	0	0	0	10	0	0	0	0	0	0	0	1	1	0	0	0		
	Laimohon	Dhal Char	10	0	0	0	0	10	0	1	9	0	0	0	0	1	4	0	0	0		
		Dhaligour Nagar	10	0	0	0	0	9	1	2	8	0	0	0	6	1	0	2	1	0	0	
		Lord Hardings	10	0	0	0	0	6	4	1	0	0	0	0	5	0	0	1	5	0	0	
	Monpura	Monpura	0	10	0	0	0	2	8	0	2	0	0	0	0	0	0	0	0	0	0	
		Dhaligour Nagar	10	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	
Chittagong	Banskhali	Baharchora	0	10	0	0	0	8	2	2	6	0	0	0	4	0	1	0	8	0	0	
		Chonua	0	10	0	0	0	10	0	9	10	0	0	0	6	0	0	3	8	0	0	
	Sandwip	Rohamatpur	0	10	0	0	0	10	0	1	8	0	0	0	6	0	0	3	5	1	0	0
		Saikat	0	10	0	0	0	10	0	9	7	0	0	0	4	0	0	0	8	0	0	0
Cox's Bazar	Kutubdia	Koyribil	0	10	0	0	0	10	0	4	7	2	1	7	2	0	0	4	4	0	0	0
		Lemsekhal	0	10	0	0	0	10	0	10	0	0	0	10	0	0	0	3	0	0	0	0
	Meheekhal	Kutubium	0	10	0	0	0	10	0	10	0	0	0	10	0	0	0	3	0	0	0	0
		Makarbari	0	10	0	0	0	10	0	4	7	2	1	7	2	0	0	4	4	0	0	0
Feni	Sonagazi	Char Dorbesh	0	10	0	0	0	10	0	0	8	0	0	0	5	0	0	9	10	0	0	0
		Char Chandia	0	10	0	0	0	10	0	1	9	0	0	0	0	0	0	2	10	0	0	0
Khulna	Dacop	Kamarkhola	0	10	0	0	0	10	0	8	10	0	0	0	3	0	0	1	0	0	0	0
		Suar Khali	10	0	0	0	0	3	7	3	0	0	0	0	0	0	0	1	0	0	0	0
	Kora	Dokhin Bedkashi	10	0	0	0	0	7	3	4	0	0	0	0	4	0	0	4	5	0	0	0
		Utor Bedkashi	10	0	0	0	0	7	3	4	0	0	0	0	3	0	0	1	0	0	0	0
Laxmipur	Ramgati	Alexander	10	0	0	0	0	10	0	2	9	0	0	0	5	0	0	8	0	0	0	0
		Char Abdullah	5	0	0	0	0	10	0	3	10	0	0	0	5	0	0	0	7	0	0	0
Neakhal	Hatia	Lahaimara	10	0	0	0	0	9	1	0	7	0	0	0	6	0	0	0	6	0	0	0
		Nijundip	10	0	0	0	0	10	0	0	10	0	0	3	6	0	0	0	10	0	0	0
	Suborna Char	Mohanmadpur	10	0	0	0	0	9	1	0	8	0	0	0	5	0	0	0	6	0	0	0
		Purbo Char Bata	10	0	0	0	0	10	0	0	6	0	0	0	8	0	0	0	8	0	0	0
Patuakhali	Golachhipa	Ankhola	10	0	0	0	0	10	0	5	0	0	0	0	0	0	7	9	0	0	0	0
		Ratandi Talloi	10	0	0	0	0	10	0	2	5	2	0	0	8	0	0	1	10	0	0	0
	Kalapara	Tyakhalya	10	0	0	0	0	10	0	0	4	0	0	0	10	0	0	0	1	5	0	0
		Quakata	10	0	0	0	0	9	1	9	8	0	0	0	4	0	0	1	0	0	0	0
Projpur	Maitbaria	Bara Masua	0	10	0	0	0	10	0	10	10	0	0	10	0	0	0	3	0	0	0	0
		Beinmore Rajpara	1	9	0	0	0	10	0	6	10	3	0	9	0	1	0	3	0	0	0	0
Saikhira	Shymnagar	Gabura	0	0	0	0	0	10	0	7	9	0	0	6	0	0	6	7	0	0	0	0
		Paddopukur	0	0	0	0	0	10	0	9	10	0	0	3	0	0	4	2	0	0	0	0

Basic Questionnaire Union Level Survey Result Summary (2/2)

District	Upazila	Union	worst cyclone Ala	worst cyclone Sidr	worst cyclone 1991	Mahasen	got information about the cyclone before the cyclone hit	didn't get any information about the cyclone before the cyclone hit	Flag hospitals	UP members	Community volunteers	Other Cyclone shelter	Top of polder	Other's house	Killa	Top of trees	Top of own house	Schools	Mosques	Temple	Other	Didn't evacuate	Didn't evacuate although got some information before the cyclone hit	evacuated although didn't get any information before the cyclone hit
Bagerhat	Monpila	Chila	10	0	0	0	10	0	1	0	9	0	0	0	0	0	0	1	0	0	0	9	0	0
	Sharankhola	South Khali	0	10	0	0	10	0	0	1	0	0	0	0	0	0	5	0	0	0	0	0	4	0
	Bayendra	Bayendra	0	10	0	0	10	0	0	0	7	8	3	0	5	0	1	0	0	0	0	0	0	4
Barguna	Barguna Sadar	Badarkhali	0	10	0	0	10	0	0	3	0	10	0	0	3	0	6	1	0	0	0	0	0	0
	Nalonia	Nalonia	0	10	0	0	10	0	0	0	0	9	0	0	1	0	0	0	0	0	0	0	0	0
	Patharghata	Chararduan	0	10	0	0	10	0	0	6	7	6	3	1	4	0	0	2	0	0	0	0	0	0
	Patharghata Sador	Patharghata Sador	0	10	0	0	10	0	0	1	2	10	0	0	3	0	0	7	0	0	0	0	0	0
Bhola	Char Fession	Char Madraj	10	0	0	0	10	0	0	0	0	0	2	0	0	0	7	1	0	0	0	0	0	0
	Dhal Char	Dhal Char	10	0	0	0	10	0	0	0	0	0	9	0	0	0	1	0	0	0	0	0	0	0
	Lalmohon	Dhaligour Nagar	10	0	0	0	6	4	0	1	1	4	0	0	0	0	0	0	0	0	0	0	0	1
	Lord Hardings	Lord Hardings	10	0	0	0	6	4	0	0	0	0	8	1	0	0	0	1	0	0	0	0	0	4
	Monpura	Monpura	10	0	0	0	2	8	0	0	0	0	0	8	2	0	0	0	0	0	0	0	0	8
	Dhaligour Nagar	Dhaligour Nagar	10	0	0	0	10	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Chittagong	Banskhali	Baharchira	10	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	4	0
	Chonua	Chonua	10	0	0	0	10	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rohamatpur	Rohamatpur	0	10	0	0	10	0	0	4	0	7	0	0	0	0	0	0	0	0	0	0	0	0
	Sarkait	Sarkait	0	0	10	0	10	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0
Cox's Bazar	Kutubdia	Koyerbil	0	0	10	0	10	0	0	2	5	9	0	7	0	2	0	1	0	0	0	0	0	0
	Lemsekhal	Lemsekhal	0	0	10	0	10	0	0	0	7	8	0	0	5	0	0	4	0	0	0	0	0	0
	Kutubjum	Kutubjum	0	0	10	0	10	0	0	0	7	8	7	0	0	0	0	4	0	0	0	0	0	0
	Maheshkhal	Maheshkhal	0	0	10	0	10	0	0	2	5	9	0	7	0	0	0	1	0	0	0	0	0	0
	Matarbari	Matarbari	0	0	10	0	10	0	0	0	5	9	0	7	0	0	0	1	0	0	0	0	0	0
Feni	Sonagazi	Char Dorbesh	0	0	10	0	10	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
	Char Chandia	Char Chandia	0	0	10	0	10	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0
Khulna	Dacop	Kamakkhola	0	0	10	0	10	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
	Suarakhali	Suarakhali	10	0	0	0	3	7	0	0	0	0	2	5	2	0	0	0	0	0	0	0	0	0
	Dokkhin Beekashi	Dokkhin Beekashi	10	0	0	0	7	3	0	0	1	0	0	8	0	0	0	2	0	0	0	0	0	3
Laxmipur	Ramgati	Utor Bedkashi	10	0	0	0	7	3	0	0	0	0	7	0	0	0	1	2	0	0	0	0	0	0
	Alexander	Alexander	10	0	0	0	10	0	0	1	0	0	10	1	1	0	0	0	0	0	0	1	0	0
	Jahajimara	Char Abtulillah	5	5	0	0	10	0	0	0	0	0	1	0	1	0	0	5	0	0	0	0	2	0
Naakhali	Hatia	Jahajimara	10	0	0	0	9	1	0	0	0	0	9	0	0	0	0	0	0	0	0	0	1	0
	Nijumoj	Nijumoj	10	0	0	0	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
	Mohannampur	Mohannampur	10	0	0	0	9	1	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
	Purbo Char Bara	Purbo Char Bara	10	0	0	0	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
Patuakhali	Golachipa	Amkhola	10	0	0	0	10	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0
	Ratanui Taloli	Ratanui Taloli	10	0	0	0	0	0	0	0	0	9	0	0	0	0	0	3	0	0	0	0	0	0
	Tiyakhay	Tiyakhay	10	0	0	0	10	0	0	8	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	Guakata	Guakata	10	0	0	0	9	1	2	1	0	9	0	4	0	0	0	2	0	0	0	0	0	0
Protopur	Mathbaria	Bara Masua	0	10	0	0	10	0	0	0	7	8	0	0	5	0	0	4	0	0	0	0	0	0
	Bethmore Rajpara	Bethmore Rajpara	1	9	0	0	10	0	0	4	8	0	9	0	1	0	6	0	0	0	0	0	0	0
Saikhira	Shymnagar	Gabura	0	0	0	0	10	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3	0
	Paddopukur	Paddopukur	0	0	0	0	10	0	0	0	1	0	0	7	2	0	0	0	0	0	0	0	1	0

Basic Questionnaire Upazila/District Level Survey Result Summary (1/4)

District	Upazila	Worst cyclone			Interview on Mahasen	got information about the cyclone before the cyclone hit	%	didn't get any information about the cyclone before the cyclone hit	Information source				
		Alla	Sidr	1991					Radio	Radio%	Microphone announcement	Microphone announcement %	Community loud speaker
Bagerhat	Sarankhola	10	20	0	0	30	100.00	0	9	30.00	24	80.00	0
	Mongla	0	20	0	0	20	100.00	0	4	20.00	18	90.00	0
		10	0	0	0	10	100.00	0	5	50.00	6	60.00	0
Khulna		30	0	0	10	27	67.50	13	19	47.50	10	25.00	0
	Dacop	10	0	0	10	13	65.00	7	11	55.00	10	50.00	0
	Koira	20	0	0	0	14	70.00	6	8	40.00	0	0.00	0
Satkhira		0	0	0	10	20	100.00	0	16	80.00	19	95.00	0
	Shyamnagar	0	0	0	10	20	100.00	0	16	80.00	19	95.00	0
		0	40	0	0	40	100.00	0	24	60.00	12	30.00	0
Barguna	Barguna Sadar	0	20	0	0	20	100.00	0	12	60.00	2	10.00	0
	Patharghata	0	20	0	0	20	100.00	0	12	60.00	10	50.00	0
		60	0	0	0	47	78.33	13	6	10.00	39	65.00	0
Bhola	Char Fession	20	0	0	0	20	100.00	0	3	15.00	19	95.00	0
	Lalmohon	20	0	0	0	15	75.00	5	3	15.00	8	40.00	0
	Monpura	20	0	0	0	12	60.00	8	0	0.00	12	60.00	0
Patuakhali		40	0	0	0	39	97.50	1	16	40.00	17	42.50	2
	Golachipa	20	0	0	0	20	100.00	0	7	35.00	5	25.00	2
	Kalapara	20	0	0	0	19	95.00	1	9	45.00	12	60.00	0
Pirojpur		1	19	0	0	20	100.00	0	16	80.00	20	100.00	3
	Maitbaria	1	19	0	0	20	100.00	0	16	80.00	20	100.00	3
		10	10	0	20	38	95.00	2	21	52.50	31	77.50	0
Chittagong	Banskhali	10	10	0	0	18	90.00	2	11	55.00	16	80.00	0
	Sandwip	0	0	0	20	20	100.00	0	10	50.00	15	75.00	0
		0	0	40	0	40	100.00	0	28	70.00	34	85.00	4
Cox's Bazar	Kutubdia	0	0	20	0	20	100.00	0	14	70.00	17	85.00	2
	Maheskhal	0	0	20	0	20	100.00	0	14	70.00	17	85.00	2
		0	0	0	20	20	100.00	0	1	5.00	17	85.00	0
Feni	Sonagazi	0	0	0	20	20	100.00	0	1	5.00	17	85.00	0
		15	5	0	0	20	100.00	0	5	25.00	19	95.00	0
	Ramgati	15	5	0	0	20	100.00	0	5	25.00	19	95.00	0
Noakhali		40	0	0	0	38	95.00	2	0	0.00	31	77.50	1
	Halia	20	0	0	0	19	95.00	1	0	0.00	17	85.00	1
	Subarna Char	20	0	0	0	19	95.00	1	0	0.00	14	70.00	0

Basic Questionnaire Upazila/District Level Survey Result Summary (2/4)

District	Upazila	Community leaders	Community leaders %	Neighbors	Neighbors %	Teachers	Market	TV	TV %	Mosque	Mosque %	Police	BDR
Bagerhat		7	23.33	3	10.00	0	1	0	0.00	7	23.33	0	0
			0	0.00	2	10.00	0	1	0	0.00	4	20.00	0
	Sarankhola	7	70.00	1	10.00	0	0	0	0.00	3	30.00	0	0
Khulna		0	0.00	10	25.00	0	0	6	15.00	6	15.00	0	0
		0	0.00	3	15.00	0	0	1	5.00	1	5.00	0	0
	Dacop	0	0.00	7	35.00	0	0	5	25.00	5	25.00	0	0
Satkhira		0	0.00	9	45.00	0	0	10	50.00	9	45.00	0	0
		0	0.00	9	45.00	0	0	10	50.00	9	45.00	0	0
	Shyamnagar	31	77.50	0	0.00	0	0	2	5.00	22	55.00	0	0
Barguna		20	100.00	0	0.00	0	0	0	0.00	6	30.00	0	0
		11	55.00	0	0.00	0	0	2	10.00	16	80.00	0	0
	Barguna Sadar	0	0.00	14	23.33	1	0	5	8.33	11	18.33	0	0
Bhola		0	0.00	3	15.00	0	0	2	10.00	5	25.00	0	0
		0	0.00	11	55.00	1	0	3	15.00	6	30.00	0	0
	Char Fession	0	0.00	0	0.00	0	0	0	0.00	0	0.00	0	0
Patuakhali		0	0.00	22	55.00	0	0	9	22.50	25	62.50	0	0
		0	0.00	8	40.00	0	0	8	40.00	19	95.00	0	0
	Lalmohon	0	0.00	14	70.00	0	0	1	5.00	6	30.00	0	0
Pirojpur		19	95.00	0	0.00	1	0	6	30.00	3	15.00	0	0
		19	95.00	0	0.00	1	0	6	30.00	3	15.00	0	0
	Mathbaria	0	0.00	0	0.00	0	0	0	0.00	3	15.00	0	0
Chittagong		0	0.00	20	50.00	0	4	8	20.00	25	62.50	0	0
		0	0.00	10	50.00	0	1	3	15.00	16	80.00	0	0
	Banskhali	0	0.00	10	50.00	0	3	5	25.00	9	45.00	0	0
Cox's Bazar		34	85.00	4	10.00	0	0	14	35.00	8	20.00	0	0
		17	85.00	2	10.00	0	0	7	35.00	4	20.00	0	0
	Kutubdia	17	85.00	2	10.00	0	0	7	35.00	4	20.00	0	0
Feni		0	0.00	5	25.00	0	0	11	55.00	20	100.00	0	0
		0	0.00	5	25.00	0	0	11	55.00	20	100.00	0	0
	Maheskhal	0	0.00	10	50.00	0	0	0	0.00	15	75.00	0	0
Laxmipur		0	0.00	10	50.00	0	0	0	0.00	15	75.00	0	0
		0	0.00	10	50.00	0	0	0	0.00	15	75.00	0	0
	Ramgati	3	7.50	25	62.50	0	0	0	0.00	30	75.00	0	0
Noakhali		3	15.00	12	60.00	0	0	0	0.00	16	80.00	0	0
		3	15.00	12	60.00	0	0	0	0.00	16	80.00	0	0
	Hatia	0	0.00	13	65.00	0	0	0	0.00	14	70.00	0	0
	Suborna Char	0	0.00	13	65.00	0	0	0	0.00	14	70.00	0	0

Basic Questionnaire Upazila/District Level Survey Result Summary (3/4)

District	Upazila	Evacuation site											
		Flag posting	UP members	UP members %	Community volunteers	Commu nity voluntee rs %	Others	Cyclone Shelter	Cyclone Shelter %	Top of polder	Top of polder %	Other's house	Other's house %
Bagerhat	Sarankhola	0	8	26.67	17	56.67	0	3	10.00	0	0.00	6	20.00
	Mongla	0	8	40.00	8	40.00	0	3	15.00	0	0.00	6	30.00
Khulna		0	0	0.00	9	90.00	0	0	0.00	0	0.00	0	0.00
	Dacop	0	3	7.50	1	2.50	0	23	57.50	5	12.50	2	5.00
	Koira	0	2	10.00	1	5.00	0	8	40.00	5	25.00	2	10.00
Satkhira		0	1	5.00	0	0.00	0	15	75.00	0	0.00	0	0.00
	Shyamnagar	0	3	15.00	1	5.00	0	13	65.00	2	10.00	0	0.00
Barguna		10	9	22.50	31	77.50	0	12	30.00	1	2.50	11	27.50
	Barguna Sadar	3	0	0.00	15	75.00	0	9	45.00	0	0.00	4	20.00
	Patharghata	7	9	45.00	16	80.00	0	3	15.00	1	5.00	7	35.00
Bhola		1	1	1.67	4	6.67	0	30	50.00	9	15.00	7	11.67
	Char Fession	0	0	0.00	0	0.00	0	11	55.00	0	0.00	0	0.00
	Lalmohon	1	1	5.00	4	20.00	0	18	90.00	1	5.00	0	0.00
Patuakhali		0	0	0.00	0	0.00	0	1	5.00	8	40.00	7	35.00
		1	0	0.00	28	70.00	0	19	47.50	4	10.00	0	0.00
	Golachipa	0	0	0.00	19	95.00	0	15	75.00	0	0.00	0	0.00
Pirojpur		1	0	0.00	9	45.00	0	4	20.00	4	20.00	0	0.00
		0	11	55.00	16	80.00	0	9	45.00	0	0.00	6	30.00
	Mathbaria	0	11	55.00	16	80.00	0	9	45.00	0	0.00	6	30.00
Chittagong		0	16	40.00	0	0.00	0	39	97.50	0	0.00	0	0.00
	Banskhali	0	3	15.00	0	0.00	0	19	95.00	0	0.00	0	0.00
	Sandwip	0	13	65.00	0	0.00	0	20	100.00	0	0.00	0	0.00
Cox's Bazar		4	24	60.00	34	85.00	7	14	35.00	0	0.00	14	35.00
	Kutubdia	2	12	60.00	17	85.00	0	7	35.00	0	0.00	7	35.00
	Maheshkhali	2	12	60.00	17	85.00	7	7	35.00	0	0.00	7	35.00
Feni		0	15	75.00	0	0.00	0	20	100.00	0	0.00	0	0.00
	Sonagazi	0	15	75.00	0	0.00	0	20	100.00	0	0.00	0	0.00
Laxmipur		0	0	0.00	0	0.00	0	11	55.00	1	5.00	2	10.00
	Ramgati	0	0	0.00	0	0.00	0	11	55.00	1	5.00	2	10.00
Noakhali		0	0	0.00	0	0.00	0	32	80.00	0	0.00	4	10.00
	Hatia	0	0	0.00	0	0.00	0	19	95.00	0	0.00	0	0.00
	Suborna Char	0	0	0.00	0	0.00	0	13	65.00	0	0.00	4	20.00

Basic Questionnaire Upazila/District Level Survey Result Summary (4/4)

District	Upazila	Killa	Top of trees	Top of own house	Schools	Mosques	Temple	Other	Didn't evacuate	Didn't evacuate %	Didn't evacuate although got some information before the cyclone hit	%	evacuated although didn't get any information before the cyclone hit	%
Bagerhat	Sarankhola	0	6	1	1	0	0	9	4	13.33	4	13.33	5	16.67
	Mongla	0	6	1	0	0	0	0	4	20.00	4	20.00	5	25.00
Khulna	Dacop	0	1	5	0	0	0	0	4	10.00	4	10.00	3	7.50
	Koira	0	1	4	0	0	0	0	0	0.00	0	0.00	3	15.00
Satkhira	Shymnagar	0	0	0	0	0	0	0	4	20.00	4	20.00	0	0.00
	Barguna Sadar	0	6	10	0	0	0	0	0	0.00	0	0.00	0	0.00
Bhola	Patharghata	0	0	9	0	0	0	0	0	0.00	0	0.00	0	0.00
	Char Fession	0	7	3	0	0	0	0	4	6.67	4	6.67	13	21.67
Patuakhali	Golachipa	0	0	5	0	0	0	0	0	0.00	0	0.00	0	0.00
	Kalapara	8	0	4	0	0	0	0	0	0.00	0	0.00	1	2.50
Pirojpur	Mathbaria	0	6	4	0	1	0	0	0	0.00	0	0.00	9	45.00
	Banskhali	0	0	0	0	0	0	0	0	0.00	0	0.00	2	10.00
Cox's Bazar	Sandwip	0	0	0	0	0	0	0	0	0.00	0	0.00	0	0.00
	Kutubdia	0	10	10	2	2	0	0	0	0.00	0	0.00	0	0.00
Feni	Matheskhali	0	5	5	1	1	0	0	0	0.00	0	0.00	0	0.00
	Sonagazi	0	0	0	0	0	0	0	0	0.00	0	0.00	0	0.00
Laxmipur	Ramgati	1	0	5	0	0	0	1	2	10.00	2	10.00	0	0.00
	Haata	0	0	0	0	0	0	0	4	10.00	2	5.00	0	0.00
Noakhali	Suboma Char	0	0	0	0	0	0	0	3	15.00	2	10.00	0	0.00

Community Detail Questionnaire Survey Result Summary (1/4)

District	evacuation		evacuation site										Mean value to SC	
	yes	no	CS	polder	other's house	killa	tree	top of house	school	mosque	temple	other		(min.)
Barguna	6	5	3	0	3	0	0	0	0	0	0	0	0	32.5
Bhola	14	4	9	2	1	1	0	1	0	0	0	0	0	30
Patuakhali	9	3	2	4	0	2	0	0	0	0	0	0	1	22.5
Pirojpur	3	3	1	0	3	0	0	0	0	0	0	0	0	20
Chittagong	5	0	6	0	0	0	0	0	0	0	0	0	0	12.5
Laxmipur	5	1	4	0	1	0	0	0	0	0	0	0	0	30
Noakhali	11	1	11	0	0	0	0	0	0	0	0	0	0	30
Bagerhat	6	3	3	0	2	0	1	0	0	0	0	0	0	15
Khulna	4	5	2	1	0	0	0	0	0	0	0	0	1	15
Total number	63	25	41	7	10	3	1	1	1	0	0	0	2	22.5
(%)	70.00	27.78	45.56	7.78	11.11	3.33	1.11	1.11	0.00	0.00	0.00	0.00	2.22	

Community Detail Questionnaire Survey Result Summary (2/4)

District	road availability at a time of disaster		safety of CS for women		problem of CS						
	yes	no	yes	no	too many people	lack of sanitation	lack of water	no separate place for women	lack of maintenance	no problem	other
Barguna	0	12	8	4	11	12	12	8	10	0	1
Bhola	3	15	2	16	18	16	7	16	7	0	0
Patuakhali	3	9	1	11	4	10	6	8	5	0	0
Pirojpur	0	5	3	3	5	6	6	5	5	0	0
Chittagong	2	4	5	1	0	6	5	1	4	0	0
Laxmipur	2	4	6	0	2	3	4	0	4	0	1
Noakhali	1	11	11	1	7	6	1	4	9	0	0
Bagerhat	0	9	4	5	6	7	9	6	2	0	0
Khulna	0	9	0	9	9	9	8	7	6	0	0
Total number	11	78	40	50	62	75	58	55	52	0	2
(%)	12.22	86.67	44.44	55.56	68.89	83.33	64.44	61.11	57.78	0.00	2.22

Community Detail Questionnaire Survey Result Summary (3/4)

District	if you can bring wife w/ you		existence of hazard map		recognizing area of danger		indication of dangerous area in the map of village			do you have evacuation exercise?		time needed for road recovery	time needed for school resume	time needed for work resume
	yes	no	yes	no	yes	no	yes	no	yes but can't draw map	yes	no	(days)	(days)	(days)
Barguna	0	4	6	6	12	0	0	0	0	3	9	120	75	60
Bhola	0	1	7	11	17	1	13	5	0	5	13	7	10	13.5
Patuakhali	0	3	2	10	6	6	4	4	0	8	4	9	11	30
Pirojpur	0	0	0	6	6	0	0	0	0	1	5	33.5	45	45
Chittagong	0	0	3	1	4	2	3	0	0	3	3	7.5	17.5	15
Laxmipur	0	0	0	6	5	1	3	2	0	2	4	30	8.5	10
Noakhali	0	0	0	12	8	4	1	6	5	0	0	7	9	20
Bagerhat	0	3	0	9	8	1	0	0	0	5	4	60	30	150
Khulna	0	0	5	4	9	0	1	0	0	0	0	365	35	7
Total number	0	11	23	65	75	15	25	17	5	27	42	30	17.5	20
(%)	0.00	12.22	25.56	72.22	83.33	16.67	27.78	18.89	5.56	30.00	46.67			

Community Detail Questionnaire Survey Result Summary (4/4)

District	retained goods										period received retained goods			use of micro credit after cyclone	
	rice	wheat	water	oil	cooking tools	tent	plastic sheet	blanket	cash	other	(days)	yes	no		
Barguna	12	8	6	6	1	5	1	3	5	0	7	3	9		
Bhola	14	1	3	9	5	3	3	8	8	8	30	9	9		
Patuakhali	12	4	2	8	3	4	5	5	4	9	3.5	7	5		
Pirojpur	6	3	4	0	1	3	0	1	2	0	165	0	6		
Chittagong	3	0	1	2	0	0	0	0	0	2	2	1	5		
Laxmipur	3	0	0	0	0	0	0	0	2	0	1	0	6		
Noakhali	5	0	1	0	1	2	0	0	0	4	2.5	2	10		
Bagerhat	9	1	8	5	1	2	0	2	1	1	180	3	6		
Khulna	9	0	8	5	3	6	3	7	8	7	365	3	6		
Total number	73	17	33	35	15	25	12	26	30	31	756	28	62		
(%)	81.11	18.89	36.67	38.89	16.67	27.78	13.33	28.89	33.33	34.44	840.00	31.11	68.89		

3-21	3-22		3-23		3-24		3-25		3-26	3-27		3-28		3-29		3-30		3-31		3-32		3-33		3-34		3-35		3-36							
did you evacuate?	time of evacuation	how did you evacuate?	reason to evacuate		evacuation site		how many persons were there?	safe place for evacuation		with whom did you evacuate?		family members stay in houses		who stayed in house		the reason		concern		what did you bring to evacuation site?		what did you want to bring?		reason of no evacuation											
a. Yes b. No	time am or pm	day/month/year	a. on foot b. by boat c. by bicycle d. other	specify in case of "other"	a. warning reach own house soon b. wave would reach soon c. other	specify in case of "other"	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own house g. schools h. mosque i. temple j. other	No.	a. Yes b. No	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own house g. schools h. mosque i. temple j. other	specify in case of "other"	a. husband/wife b. children c. parents d. brother/sister e. neighbors f. other	specify in case of "other"	a. Yes b. No	Age	sex	a. respondent b. husband/wife c. children d. parents e. brother/sister f. other	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is dar j. storm is too strong k. to protect the house l. residence is safer m. unavoidable because Allah says so n. other	specify in case of "other"	a. had fear about washing away b. evacuation site is far c. to lose my livestock d. theft or robbery e. income of the day f. road is bad g. worry separation of family h. I do not want to pay for shelter i. warning is not always true j. unavoidable k. other	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. mobile phone g. cooking tool h. table i. chair j. Bed k. sleeping mat/blanket l. aluminum roof m. van n. bicycle o. clothes	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. mobile phone g. cooking tool h. table i. chair j. Bed k. sleeping mat/blanket l. aluminum roof m. van n. bicycle o. clothes	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is far j. storm is too strong k. to protect the house l. residence is safer m. unavoidable because Allah says so n. other	specify in case of "other"							
a	5:00 pm	25/05/2009	b		b		a		2000	a																									
b																																			
b																																			
b																																			
a	11:00 am	25/05/2009	a		c	my house and everything was washed away	j	top of road	3	No	a	a	b																						
a	2:00 pm	25/05/2009	b		c	my house and everything was washed away	b		No idea	No	a	a	b	e																					
a	12:30 pm	25/05/2009	a		c	my house and everything was washed away	a		1000	Yes		a	b																						
b																																			

Section 4 Shelter and Polder system in Community													Section 5 Situation of Community Disaster Prevention																									
4-1	4-2	4-3	4-4	4-5	4-6	4-7		4-8	4-9		5-1					5-2					5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-12		5-13	5-14						
Location of cyclone shelter	Distance to the cyclone shelter (km)	How long does it take on foot (minutes)	How many people can stay?	road accessibility to the shelter	Do you think shelter is safe for woman?	what is the problem with cyclone shelter?		possibility you can bring your wife to the shelter (possibility your husband)	the reason of "No" in Q.4-8		existing organizations in the village					function of organizations					existence of hazard map	recognition of danger	indication of dangerous area in the map of village	indication of inundated area by the worst cyclone	do you have radio?	do you have portable radio?	do you have mobile phone?	can you use radio using your mobile phone?	when your mobile phone turned off in the worst cyclone?		do you have evacuation exercise?	frequency of evacuation exercise						
a. Yes b. No	km	minutes	No.	a. Yes b. No	a. Yes b. No	a. too many people b. lack of sanitation c. lack of water d. no separate space for women e. lack of maintenance f. no problem g. other	specify in case of "other"	a. Yes b. No	a. she is working in the field b. women should not go out c. livestock should be kept by women d. shelter is not safe e. other	specify in case of "other"	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	Other 1	Other 2	Other 3	Other 4	Other 5	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	Other 1	Other 2	Other 3	Other 4	Other 5	a. Yes b. No	a. Yes b. No	*No entry in this sheet, but on the map	*No entry in this sheet, but on the map	a. Yes b. No	a. Yes b. No	a. Yes b. No	a. Yes b. No	time	am/p	day/month/year	a. Yes b. No	a. once in a month b. once in 2 months c. once in 3 months d. once in 4 months e. other	specify in case of "other"		
a	1.5	30	400	b	b	a	b	c	d	e																												
a	1.5	50	400	b	b	a	b	c	d	e																												
a	1.5	60	400	b	b	a	b	c	d	e																												
a	0.25	10	350	b	b	a	b	c	d	e																												
a	0.25	5	400	b	b	a	b	c	d	e																												
a	1.6	60	200	b	b	a	b	c	d	e																												
a	0.2	10	250	b	b	a	b	c	d	e																												
a	0.2	10	300	b	b	a	b	c	d	e																												
a	3	15	900	b	b	a	b	c	d	e																												

Result of Detail Questionnaire Barguna District

Sl. No.	Date	Enumeration name	District	Upazila	Union	Village	H/H #	# of H/H in the village	Did you get affected from cyclone in the recent 6 years?	Section 1 Respondent and family information															Section 2 Affected situation of the Worst Cyclone																												
										Name	Sex	Age	Education	Mobile #	Religion	Relation to head	# of family members	Work status	Who left the place	How many persons did leave	Main income source before the cyclone	Main income source now	# of Live stock	# of livestock now	Category of house before the cyclone	Category of house after the cyclone	Temp. any leakage	Where did you move?	How long?	The worst damage	How many?	How many?	Where was the person at that time	Damage from cyclone	Did you lose livestock?	How many?	Total surge inundated period	Food grain level															
1	2013/1/1	Sharif Islam	Barguna	Barguna Sader	Nabona	Nabona	2500	a	Male	Md. Yusuf Alam	M	32	Kamil	173490320	a	a	Head	2	1	3	0	a	27 m	a	Barguna	Barguna Sader	Teacher	3,000	a	Teacher	8000	5	25	0	30	a	a	a	1 day	a	a	1 d	a	a	a	5	25	7:12 pm	15/11/2007	12:00 pm	16/11/2007	20 d	a

3-1		3-2		3-3		3-4		3-5		3-6		3-7		3-8		3-9		3-10		3-11		3-12		3-13		3-14		3-15		3-16		3-17		3-18		3-19		3-20				
First time to get information	information source	Signal	time of started raining	time of started raining hard	information source	Signal	impression	time started windy	info. Source	Signal	impression	time started windy	info. Source	Signal	impression	time started windy	info. Source	Signal	impression	time of tidal surge reaching	info. Source	Signal	impression	time of tidal surge reaching	info. Source	Signal	impression	time of tidal surge reaching	info. Source	Signal	impression	time of tidal surge reaching	info. Source	Signal	impression	time of tidal surge reaching	info. Source	Signal	impression			
8:00 pm	15/11/2007	a	9:00 am	13/11/2007	9:00 pm	15/11/2007	a	10:00 am	15/11/2007	a	Red Crescent	b	d	20:00 pm	15/11/2007	a	Red Crescent	e	a	8:30 pm	15/11/2007	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a

Section 4 Shelter and Polder system in Community														Section 5 Situation of Community Disaster Prevention																																
4-1	4-2	4-3	4-4	4-5	4-6	4-7							4-8					5-1					5-2					5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-12			5-13	5.14					
Location of cyclone shelter	Distance to the cyclone shelter (km)	How long does it take on foot (minutes)	How many people can shelter?	Do you think shelter is safe for woman?	what is the problem with cyclone shelter?							possibility you can bring your wife to the shelter (possibility your husband can bring you to the shelter)					the reason of "No" in Q.4-8					existing organizations in the village					function of organizations					existence of hazard map	recognizing area of danger	indication of dangerous area in the map of village	indication of inundated area by the worst cyclone	do you have radio?	do you have portable radio?	do you have mobile phone?	can you use radio using your mobile phone?	when your mobile phone turned off in the worst cyclone?	do you have evacuation exercise?	frequency of evacuation exercise				
a. Yes b. No	km	minutes	No.	a. Yes b. No	a. Yes b. No	a. too many people b. lack of sanitation c. lack of water d. no separate space for women e. lack of maintenance f. no problem g. other	specify in case of "other"	a. Yes b. No	a. she is working in the field b. women should not go out c. livestock should be kept by women d. shelter is not safe e. other	specify in case of "other"	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	Other 1	Other 2	Other 3	Other 4	Other 5	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	c. mosqu committee	d. CPP	e. parents' committee	f. water users committee	Other 1	Other 2	Other 3	Other 4	Other 5	a. Yes b. No	a. Yes b. No	*No entry in this sheet, but on the map	*No entry in this sheet, but on the map	a. Yes b. No	a. Yes b. No	a. Yes b. No	a. Yes b. No	time	am /p m	day/month/year	a. Yes b. No	a. once in a month b. once in 2 months c. once in 3 months d. once in 4 months e. specify in case of "other"							
					a	b	c	d	e	f	g		a	b	c	d	e																													
a	8	180	400	b	a	a	b	c	d	e							Red crescent	Save the children	Plan Bangladesh	SDF																										
a	0.5	10	300	b	a	a	b	c	d								Red crescent	SDF	SAP																											
a	1.5	30	350	b	a	a	b	c	d	e	g	no electricity	a				Red crescent	SDF																												
a	4	80	400	b	a	b	c						a				Red crescent	Plan Bangladesh	SAP																											
a	4	100	300	b	b	a	b	c	d	e			b				Red crescent	SAP																												
a	5	120	300	b	b	a	b	c	d	e			b				SAP																													
a	1.5	35	500	b	b	a	b	c	d	e			b				BRAC	Songram	Asha	Red crescent																										
a	1.3	30	500	b	a	a	b	c	e				a				Save the children	Red Crescent																												
a	2	40	500	b	a	a	b	c	e				a				Karitash																													
a	1.5	30	450	b	a	a	b	c	e				a				Songkolpo	Brac																												
a	0.25	5	500	b	b	a	b	c	d	e			b				Dhaka ahsania mission	Save the children	SAP Bangladesh																											
a	1	30	300	b	a	a	b	c	d	e			a				Mukti Trast																													

Section 6. Assistant for community after cyclone damage/reconstruction process																																																								
6-1	6-2			6-3	6-4	6-5		6-6	6-7	6-8		6-9	6-10	6-11		6-12		6-13	6-14		6-15		6-16	6-17	6-18		6-19	6-20	6-21	6-22																										
when did the main road of your village become usable?	who did fix the road?			when was the school resumed?	when did you resume your work?	how long did it take for electronic recovery?		when did you receive first rationed goods?	did you contact to any organizations persons to receive a support?	which organization did you contact?		how did you contact them?	who did report the damage?	from where you received the rationed goods?		which rationed goods did you receive?		how long did you receive the goods?	support receiving now		rationed goods receiving now		did you use micro credit for reconstruction for living?	the amount (Tk)	from where you borrow the money?		did you have debt before the cyclone?	did you have debt after the cyclone?	the period of write off (months)	expectation to assistance																										
days	a. community people	b. NGO	c. government	days	days	days	if ans is not number please mention why	days	a. Yes b. No	a. neighbor b. village leader c. member of UP d. NGO e. other	a. mobile phone b. visited office on foot c. visited the office by a boat d. other	specify in case of "other"	a. village head b. neighbor c. religious leader d. teacher e. nobody	a. gov b. neighbor c. neighbor d. neighbor e. other	a. rice b. wheat c. water d. oil e. cooling tools f. tent g. plastic sheet h. blanket i. cash j. other	specify in case of "other"	days, week, months, years	a. VGD b. cash for work c. food for work d. housing grant e. nothing f. other	specify in case of "other"	a. rice b. wheat c. oil d. oil e. cash f. other	specify in case of "other"	a. Yes b. No	Tk	a. grameen bank b. BRAC c. ASA d. Garamukhi e. SUS f. Caritas g. Krishi Bank h. BRDB i. other	specify in case of "other"	a. Yes b. No	a. Yes b. No	months	1	2	3	4	5	6	7	8	9	10	11	12	Remark															
a	b	Name	c	d	Name	Number			a	b	c	d	e	Name	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z																
15 days	b	save the children			30 days	30			20 days	b				a	a	b					12 month																																			
20 days	c				60 days	30			2 days	b				a	a						3 month																																			
60 days		c			90 days	90			4 days	b				d	a						8 month																																			
180 days	a				5 days	30			2 days	a				b	b	a	b	care			6 month																																			
365 days		c			90 days	365			3 days	a				b	a	a	b	Faria Foundation			6 month	a	b	d																																
365 days		c			90 days	365			2 days	a				b	a	a		d	Bangladesh Navy	a	c	e	i																																	
180 days	b	Brac	c		180 days	365			1 day	a				b	a	a	b	save the children			12 month	a	c																																	
180 days	b	Brac			180 days	60			2 days	a				b	a	a					3 month	a																																		
180 days	b	Brac			180 days	30			2 days	a				b	a	a		c			6 month		e																																	
10 days		c			30 days	60			2 days	a				b	d	a	b	brac			8 month		e																																	
3 days	a				15 days	180			1 month	2 days	a			b	a	a	b	Sankalpa			12 month	a																																		
30 days		c			15 days	30			1 day	a				b	a	a					12 month																																			

Section 4 Shelter and Polder system in Community											Section 5 Situation of Community Disaster Prevention																									
4-1	4-2	4-3	4-4	4-5	4-6	4-7					4-8	4-9	5-1					5-2					5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-12			5-13	5-14	
Location of cyclone shelter	Distance to the cyclone shelter (km)	How long does it take on foot (minutes)	How many people can stay?	road accessibility to the shelter	Do you think shelter is safe for woman?	what is the problem with cyclone shelter?					possibility you can bring your wife to the shelter (possibility your husband can bring you to the shelter)	the reason of "No" in Q.4-8	existing organizations in the village					function of organizations					existence of hazard map	recognizing area of danger	indication of dangerous area in the map of village	indication of inundated area by the worst cyclone	do you have radio?	do you have portable radio?	do you have mobile phone?	can you use radio using your mobile phone?	when your mobile phone turned off in the worst cyclone?			do you have evacuation exercise?	frequency of evacuation exercise	
a. Yes b. No	km	minutes	No.	a. Yes b. No	a. Yes b. No	a. too many people b. lack of sanitation c. lack of water d. no separate space for women e. lack of maintenance f. no problem g. other	specify in case of "other"	a. Yes b. No	a. she is working in the field b. women should not go out c. livestock should be kept by women d. shelter is not safe	specify in case of "other"	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	Other 1	Other 2	Other 3	Other 4	Other 5	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	Other 1	Other 2	Other 3	Other 4	Other 5	a. Yes b. No	a. Yes b. No	*No entry in this sheet, but on the map	*No entry in this sheet, but on the map	a. Yes b. No	a. Yes b. No	a. Yes b. No	a. Yes b. No	time	am/pm	day/month/year	a. Yes b. No	a. once in a month b. once in 2 months c. once in 3 months d. once in 4 months e. other	specify in case of "other"
						a b c d e f g		a b c d e		a b c d e f																										
a	1.5	30	800	b	b	a b d		a														b	a	yes		b	b	a	b	2:00 pm	25/05/2008	a	e	Once in two year		
a	1.5	25	500	b	b	a b c d e		a														b	a	Yes		b	b	b				b				
a	1.5	30	800	a	b	a b d		a														b	a	No		b	b	b				a	e	Once in two year		
a	1	30	700	a	b	a b d e		b	d													b	a	Yes		b	b	a	b	2:00 pm	25/05/2008	b				
a	0.05	5	700	a	b	a b d e		a														b	a	No		a	b	a	b	12:50 pm	25/05/2008	b				
a	0.5	10	400	b	b	a b c d e		a															a	a	Yes		a	a	a	b			b			
a	1	15	1000	b	a	a b		a															b	a	Yes		b	b	a	b			a	e	Occasionally	
a	0.25	10	300	b	a	a b c d		a														b	b	Yes		a	a	a	b			a	e	once in a year		
a	1	10	1000	b	a	a b c		a														b	a	Yes		b	b	a	b	3:00 pm	25/05/2008	a	e	once in a year		
a	4	90	1000	b	b	a b d		a															a	a	Yes		b	b	a	b			b			
a	4	90	1000	b	b	a b d		a															a	a	Yes		b	b	a	b			b			
a	3	50	350	b	b	a b c d e		a															a	a	Yes		b	b	a	b			b			
a	0.1	8	400	b	b	a b c d e		a															a	a	Yes		b	b	a	b			b			
a	1.5	45	1000	b	b	a b d		a															a	a	Yes		b	b	a	b			b			
a	1	30	1000	b	b	a b d		a															a	a	Yes		b	b	b			b				
a	2	30	350	b	b	a c d		a															b	a	No		b	b	b	b			b			
a	1.3	30	400	b	b	a b d		a															b	a	No		b	b	a	b			b			
a	2	45	400	b	b	a d e		a															b	a	No		b	b	b	b			b			

3-21	3-22			3-23		3-24		3-25		3-26		3-27		3-28		3-29		3-30		3-31		3-32		3-33		3-34		3-35		3-36				
did you evacuate?	time of evacuation			how did you evacuate		reason to evacuate		evacuation site		how many persons were there?		safety of evacuation site		safe place for evacuation		with whom did you evacuate?		family member stay in houses		who stayed in house		the reason		concern		what did you bring to evacuation site?		what did you want to bring?		reason of no evacuation				
a. Yes b. No	time	am or pm	day/month/year	a. on foot b. by a boat c. by a bicycle d. other	specify in case of "other"	a. warning b. wave would reach own house soon c. other	specify in case of "other"	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own	specify in case of "other"	No. a. Yes b. No	a. Yes b. No	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own house g. schools h. mosque i. temple j. other	specify in case of "other"	a. husband/ wife b. children c. parents d. brother/sister e. neighbors f. other	specify in case of "other"	a. Yes b. No	Age	sex	a. responde nt b. husband/ wife c. children d. parents e. brother/si	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is dar	specif y in case of "other"	a. had fear about washing away b. evacuation site is far c. to lose my livestock d. theft of robbery e. income of the day f. road is bad g. worry separatoin of family h. I do not want to pay for shelter	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. monile phone g. cooking tool h. table i. chaire j. Bed k. sleeping mat/blanket	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. monile phone g. cooking tool h. table i. chaire j. Bed k. sleeping mat/blanket	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is far j. storm is too strong	specify in case of "other"				
				a b c		a b c		a b c d e f g h i j				a b c d e f g h i j	a b c d e f							a b c d e f g h i j k			a b c d e f g h i j k l m n o p q r	a b c d e f g h i j k l m n o p q r			a b c d e f g h i j k l m n o							
a	9:00 pm		15/11/2007	a	b		a				600 a																							
b																																performing my duty as CPP member& observing the situation		
a	5:00 pm		25/05/2009	a	a b		a				400 a																					Nothing but save ourselves		
b																																		
b																																	Head person was not present at that moment	
a	12:00 pm		25/05/2009	a	b		j	neighbour			3 a																							
a	9:30 pm		15/11/2007	a		c	Save the family	b			100 a																							
a	8:00 pm		15/11/2007	a	a			b			7 b	a																						
a	11:00 pm		15/11/2007	a		c	roof of the house blew away with wind	b			9 b			j none																			r life jacket	
a	11:00 pm		15/11/2007	a		c	Save the family	b			1500 a	b																						
a	12:30 pm		25/05/2009	a	a			d			2000 b	a																						
a	1:00 am		16/11/2007	a		c	Water reached Stomach-high	d			5000 b	a																						

3-21	3-22			3-23	3-24		3-25	3-26	3-27	3-28			3-29	3-30	3-31		3-32					3-33		3-34												3-35												3-36											
did you evacuate?	time of evacuation			how did you evacuate	reason to evacuate		evacuatio n site	how many perspns were there?	safety of evacuatio n site	safe place for evacuation			with whom did you evacuate?	family mamber stay in houses	who stayed in house		the reason					concern		what did you bring to evacuation site?												what did you want to bring?												reason of no evacuation											
a. Yes b. No	time	am or pm	day/month/year	a. on foot b. by a boat c. by a bicycle d. other	specify in case of "other"	a. warnin g b. wave would reach own house soon c. other	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own house g. schools h. mosque i. temple j. other	No.	a. Yes b. No	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own house g. schools h. mosque i. temple j. other	specify in case of "other"	a. husband/wife b. children c. parents d. brother/sister e. neighbors f. other	specify in case of "other"	a. Yes b. No	Age	sex	a. responden t b. husband/wife c. children d. parents e. brother/sister f. other	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is dar j. storm is too strong k. to protect the house l. residence is safer m. unavoidable decause Allah says so n. other	specify in case of "other"	a. had fear about washing away b. evacuation site is far c. to lose my livestock d. theft of robbery e. income of the day f. road is bad g. worry separatoin of family h. I do not want to pay for shelter i. warning is not always true j. unavoidable k. other	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. monile phone g. cooking tool h. table i. chaire j. Bed k. sleeping mat/blanket l. aliminum roof m. van n. bicycle o. clothes p. stationary q. nothing r. other	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. monile phone g. cooking tool h. table i. chaire j. Bed k. sleeping mat/blanket l. aliminum roof m. van n. bicycle o. clothes p. stationary q. nothing r. other	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is far j. storm is too strong k. to protect the house l. I didn't know the cyclone comes m. residence is safer n. unavoidable decause Allah says so o. other	specify in case of "other"																															
					a b c					a b c d e f g h i j		a b c d e f						a b c d e f g h i j k l m n o		a b c d e f g h i j k		a b c d e f g h i j k l m n o p q r		a b c d e f g h i j k l m n o p q r		a b c d e f g h i j k l m n o		a b c d e f g h i j k l m n o																															
a	10:00	pm	15/11/2007	a		b	c	next building	16	a		a	d	a	89	M	d		n	doesn't want to move		k	didn't realize anything		q		a b c e f		b																														
a	10:30	pm	15/11/2007	a		c	to save the life	c	relative house	25	a		c		b						a		f		f		a c e f		o																														
a	7:00	pm	15/11/2007	a		a		a		600	a		a b		b						a		f		q				q																														
b			15/11/2007	a		b		c		100	b		j	upozila cyclone shelter	b				n	doesn't want to move		k	To save life		q		a c f		o																														
b														a										q		c																																	
b																													m																														

Section 4 Shelter and Polder system in Community														Section 5 Situation of Community Disaster Prevention																											
4-1	4-2	4-3	4-4	4-5	4-6	4-7				4-8		4-9		5-1					5-2								5-12			5-13		5.14									
Location of cyclone shelter	Distance to the cyclone shelter (km)	How long does it take on foot (minutes)	How many people can stay?	road accessibility to the shelter	Do you think shelter is safe for woman?	what is the problem with cyclone shelter?				possibility you can bring your wife to	the reason of "No" in Q.4-8		existing organizations in the village					function of organizations								existence of hazard map	recognizing area of danger	indication of inundated area by the map	indication of inundated area by the map	do you have a portable radio?	do you have a mobile phone?	do you use a radio using you?	when your mobile phone turned off in the worst cyclone?			do you have evacuation exercise	frequency of evacuation exercise				
a. Yes b. No	km	minuts	No.	a. Yes b. No	a. Yes b. No	a. too many people b. lack of sanitation c. lack of water d. no separate space for women e. lack of maintenance f. no problem g. other	specify in case of "other"	a. Yes b. No	a. she is working in the field b. women should not go out c. livestock should be kept by women d. shelter is not safe e. other	specify in case of "other"	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	Other 1	Other 2	Other 3	Other 4	Other 5	a. water management group	b. school management committee	c. mosruq committee	d. CPP	e. parent's committee	f. water users committee	Other 1	Other 2	Other 3	Other 4	Other 5	a. Yes b. No	a. Yes b. No	*No entry in this sheet, but on the map	*No entry in this sheet, but on the map	a. Yes b. No	a. Yes b. No	a. Yes b. No	a. Yes b. No	time	am/pm	day/month/year	a. Yes b. No	a. once in a month b. once in 2 months c. once in 3 months d. once in 4 months e. other	specify in case of "other"
b				b	a	b	c	d	e	a							b	c	d	BRAC	Asha	Dak diye jai	Gram een	Prosh ika						b	a		a	a	a	a	8.00 pm	15/11/2007	b		have the training plan but no exercise due to lack of equipment
a	1	20	300-350	b	a	a	b	c	d	e	a						b	c	d	BRAC	Red Crescent								b	a		b	b	a	b	10.30 pm	15/11/2007	a	e	once in 6 months	
b	2	10	300	b	a	a	b	c	d	a						b	c	d	BRAC	Dak diye jai	Asha							b	a		b	b	a	b	9.00 pm	15/11/2008	b	e	no idea		
a	1	25	100	b	b	a	b	c	d	e	a						b	c	d	Gram men	Asha	Dak diye jai							b	a		b	b	a	b						
a	1.5	20	300-350	b	b	a	b	c	d	e	a						b	c	d	Gram men	Asha								b	a		b	b	b	b	22.00 pm	15/11/2007	b			
a	3.5	45	500	b	a	a	b	c	e	a						b	c	d	Gram men	Prosh ika	Dak diye jai							b	a		a	a	a	b	9.00 pm	15/11/2008	b				

3-21	3-22			3-23		3-24		3-25		3-26	3-27	3-28					3-29		3-30	3-31		3-32					3-33		3-34											3-35				3-36				
did you evacuate?	time of evacuation			how did you evacuate		reason to evacuate		evacuation site		how many persons were there?	safety of evacuation site	safe place for evacuation					with whom did you evacuate?		family member stay in houses	who stayed in house		the reason					concern		what did you bring to evacuation site?											what did you want to bring?				reason of no evacuation				
a. Yes b. No	time	am or pm	day/month/year	a. on foot b. by a boat c. by a bicycle d. other	specify in case of "other"	a. warning b. wave would reach own house soon c. other	specify in case of "other"	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own house g. schools h. mosque i. temple j. other	specify in case of "other"	No.	a. Yes b. No	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own house g. schools h. mosque i. temple j. other	specify in case of "other"	a. husband/wife b. children c. parents d. brother/sister e. neighbors f. other	specify in case of "other"	a. Yes b. No	Age	sex	a. respondent b. husband/wife c. children d. parents e. brother/sister f. other	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is dar j. storm is too strong k. to protect the house l. residence is safer m. unavoidable because Aliah says so n. other	specify in case of "other"	a. had fear about washing away b. evacuation site is far c. to lose my livestock d. theft of robbery e. income of the day f. road is bad g. worry separation of family h. I do not want to pay for shelter I warning is not always true j. unavoidable k. other	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. monile phone g. cooking tool h. table i. chaire j. Bed k. sleeping mat/blanket l. aliminum roof m. van n. bicycle o. clothes p. stationary q. nothing	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. monile phone g. cooking tool h. table i. chaire j. Bed k. sleeping mat/blanket l. aliminum roof m. van n. bicycle o. clothes p. stationary q. nothing	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is far j. storm is too strong	specify in case of "other"																		
				a b c							a b c d e f g h i j		a b c d e f							a b c d e f g h i j k l m n o		a b c d e f g h i j k		a b c d e f g h i j k l m n o p q r		a b c d e f g h i j k l m n o p q r		a b c d e f g h i j k l m n o p q r		a b c d e f g h i j k l m n o																		
a	7:00	pm	15/11/2007	a				a		1200	a		a b		b										a c		a c		b																			
a	7:00	pm	15/11/2007	a		b		a		700	a		a b		b										a		g				q																	
a	8:00	pm	15/11/2007	a				a		1500	b	a	a b c		b																																	
a	4:00	pm	25/05/2009	a				a		800	a		a b		b																																	
a	11:30	am	25/05/2009	a		a		a		1000	a		a b		b																																	
a	8:00	pm	15/11/2007	a		b		a		800	a		a b		b																																	

3-21	3-22		3-23		3-24		3-25		3-26		3-27		3-28		3-29		3-30		3-31		3-32		3-33		3-34		3-35		3-36					
did you evacuate?	time of evacuation		how did you evacuate?		reason to evacuate		evacuation site		how many persons were there?		safety of evacuation site		safe place for evacuation		with whom did you evacuate?		family member stay in house		who stayed in house		the reason		concern		what did you bring to evacuation site?		what did you want to bring?		reason of no evacuation					
a. Yes b. No	am or pm	day/month/year	a. on foot b. by a boat c. by a bicycle d. other	specify in case of "other"	a. warning reach own house soon b. wave would reach own house soon c. other	specify in case of "other"	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own house g. schools h. mosque i. temple j. other	specify in case of "other"	No.	a. Yes b. No	a. Yes b. No	a. cyclone shelter b. top of polder c. other's house d. killa e. top of tree f. top of own house g. schools h. mosque i. temple j. other	specify in case of "other"	a. husband/ wife b. children c. parents d. brother/sister e. neighbors f. other	specify in case of "other"	a. Yes b. No	Age	M/F	a. respondent b. husband/wife c. children d. parents e. brother/sister f. other	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is dar j. storm is too strong k. to protect the house l. residence is safer	specify in case of "other"	a. had fear about washing away b. evacuation site is far c. to lose my livestock d. theft or robbery e. income of the day f. road is bad g. worry separation of family h. I do not want to pay for shelter i. warning is not always true j. unavoidable k. other	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. monile phone g. cooking tool h. table i. chaire j. Bed k. sleeping mat/blanket l. aliminum roof m. van	specify in case of "other"	a. cash b. livestock c. food d. working tools e. radio f. monile phone g. cooking tool h. table i. chaire j. Bed k. sleeping mat/blanket l. aliminum roof m. van	specify in case of "other"	a. I do not think waves will reach my house b. warning is not always true c. to keep my livestock around d. to prevent theft or robbery e. to secure income of the day f. worry to separation of family g. don't want to pay to use the shelter h. road in bad i. evacuation site is far j. storm is too strong k. to protect the house l. I didn't know the cyclone comes	specify in case of "other"				
			a b c		a b c		a b c d e f g h i j					a b c d e f g h i j		a b c d e f							a b c d e f g h i j k				a b c d e f g h i j k l m n o p q r				a b c d e f g h i j k l m n o p q r				a b c d e f g h i j k l m n o	
a	2:00 pm	25/05/2009	a	- - c	- - c		Save my family	a	200	a				a b								a - - - - g - - - -				- - - - - q - - - -				- - - - - q - - - -				
a	2:00 pm	25/05/2009	a	- b -	- b -			a	200	a				a b								a - - - - g - - - -				- - - - - q - - - -				- - - - - q - - - -				
b	7:00 am	26/05/2009	a	-	- c		House floated away	a	600	a				a								- - - - - g - - - -				- - - - - q - - - -				- - c - - - - o - - - -				
a	4:00 pm	25/05/2009	a	- b	- b			a	1000	a				a b								a - - - - g - - - -				- - - - - q - - - -				- - - - - q - - - -				
a	3:00 pm	25/05/2009	a	- - c	- - c		Save my family	a	300	a				a b								- c - - - - g - - - -				- - - - - q - - - -				- - - - - q - - - -				
a	4:00 pm	25/05/2009	a	- b -	- b -			a	1000	a				a b								a - - - - g - - - -				- - - - - q - - - -				- - - - - q - - - -				
a	7:00 pm	25/05/2009	a	- b -	- b -			a	400	a				a b								a - c - - - - g - - - -				- - - - - q - - - -				- - - - - q - - - -				
a	8:00 pm	25/05/2009	a	- b -	- b -			a	500	a				a b								a - c - - - - g - - - -				- - - - - q - - - -				- - - - - q - - - -				
a	8:00 pm	15/11/2007	a	a - -	- -			a	400	a				a b								- - - - - k - - - -				- - - - - q - - - -				- - - - - q - - - -				
a	1:00 pm	25/05/2009	a	- - c	- - c		Save my family	a	1000	a				a b								a - c - - - - g - - - -				r Water				- - - - - q - - - -				
a	1:00 pm	25/05/2009	a	- b -	- b -			a	1000	a				a b								a - c - - - - g - - - -				- - - - - q - - - -				- - - - - q - - - -				
a	2:00 pm	25/05/2009	a	-	- c		I worry to separate family	a	400	a				a b								a - - - - g - - - -				q				- - - - - q - - - -				

Section 4 Shelter and Polder system in Community											Section 5 Situation of Community Disaster Prevention																												
4-1	4-2	4-3	4-4	4-5	4-6	4-7					4-8	4-9					5-1					5-2					5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-12		5-13	5.14	
Location of cyclone shelter	Distance to the cyclone	How long does it take	How many people can stay?	road accessibility to the shelter	Do you think shelter is safe	what is the problem with cyclone shelter?					possibility you can bring	the reason of "No" in Q.4-8					existing organizations in the village					function of organizations					existence of hazard map	recognizing area of danger	indication of dangerous area in the map	indication of inundated area by the worst	do you have radio?	do you have portable radio?	do you have mobile phone?	can you use radio using	when your mobile phone turned off in the worst cyclone?		do you have evacuation exercise	frequency of evacuation exercise	
a. Yes b. No	km	minuts	No.	a. Yes b. No	a. Yes b. No	a. too many people b. lack of sanitation c. lack of water d. no separate space for women e. lack of maintenance f. no problem g. other	specify in case of "other"	a. Yes b. No	a. she is working in the field b. women should not go out c. livestock should be kept by women d. shelter is not safe e. other	specify in case of "other"	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	Oth er 1	Oth er 2	Oth er 3	Oth er 4	Oth er 5	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	a. water management group b. school management committee c. mosque committee d. CPP e. parents' association f. water users committee	a. Yes b. No	a. Yes b. No	*No entry in this sheet, but on the map	*No entry in this sheet, but on the map	a. Yes b. No	a. Yes b. No	a. Yes b. No	a. Yes b. No	time	am/p m	day/m onth/year	a. Yes b. No	a. once in a month b. once in 2 months c. once in 3 months d. once in 4 months e. other	specify in case of "other"			
						a	b	c	d	e	f	g		a	b	c	d	e	f																				
a	1	30	500	b	a	-	b	-	d	-	-	-	a	-	-	-	-	-	-	-	-	b	a	Yes but not on map	yes	b	b	a	b	I had not mobile phone that time			b						
a	1	30	400	b	a	a	-	-	e	-	-	-	a	-	-	-	-	-	-	-	-	b	a	Yes but not on map	yes	b	b	a	b	I had not mobile phone that time			b						
a	4	80	500	b	a	-	b	c	-	-	-	-	a	-	-	d	-	-	-	-	-	b	a	No	no idea	b	b	a	b	No mobile during cyclone			b						
a	1	40	1000	b	a	a	-	-	e	-	-	-	a	-	-	-	-	-	-	-	-	b	b	No	no idea	b	b	a	b	I had not mobile phone that time			b						
a	1	35	500	b	a	-	-	-	d	e	-	-	a	-	-	-	-	-	-	-	-	b	b	No	no idea	b	b	b	b	I had not mobile phone that time			b						
a	2	40	1000	a	a	a	b	-	-	e	-	-	a	-	-	-	-	-	-	-	-	b	a	Yes but not on map	yes	b	b	b	b	I had not mobile phone that time			a	b					
a	0.3	10	500	b	a	-	b	-	-	e	-	-	a	-	-	d	-	-	-	-	-	b	b	No	no idea	b	b	b	b	I had not mobile phone that time			b						
a	0.5	20	500	b	a	a	-	-	e	-	-	-	a	-	-	-	-	-	-	-	-	b	a	Yes but not on map	yes	b	b	a	b	I had not mobile phone that time			b						
a	1	20	400	b	b	a	b	-	d	-	-	-	a	-	-	-	-	-	-	-	-	b	a	No	no idea	b	b	b	b	I had not mobile phone that time			b						
a	0.5	15	1500	b	a	-	-	-	d	e	-	-	a	-	-	d	-	-	-	-	-	b	a	Yes	yes	b	b	a	b	I had not mobile phone that time			b						
a	0.5	20	1500	b	a	a	b	-	-	e	-	-	a	-	-	d	-	-	-	-	-	b	a	Yes but not on map	yes	b	b	a	b	I had not mobile phone that time			b						
a	1	30	500	b	a	a	-	-	e	-	-	-	a	-	-	d	-	-	-	-	-	b	b	No	yes	b	b	b	b	I had not mobile phone that time			b						

Behavior during Mahasen Time

Khulna District, Shymnagar Upazila

1. Respondent and Family Information

1-1. General information

- Respondent Name: **Mahmud Ali Maral**
- Sex: **M**
- Age: **52**
- Educational Background (Years of Schooling) : **Elementary School**
- Religion: **Muslim**
- Relation to Head : **Head**
- Number of Family Members: Male (5) + Female (4) = Total (9)
- Boy (under 12 years old) : 1; Girl (under 12 years old) : 1

1-2. Main income source of household: **Shrimp Business**

Monthly average income per family: Tk. 8000

1-3. How many Livestock do you have now?

Cow () Poultry (6) Goat (8) Sheep () Other () , No.: ()

1-4. Category of the house: **Thatched tent**

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

- 11/05/2013, Saturday at 5:00 pm

2-2. From where did you get the information?

- From Radio

2-3. What did the information say?

- Warning for cyclone Mohasen,
- water level will be 9 feet high,
- Please go to the evacuation site with dry food.

2-4. When was your first time to hear CPP warning? (Date and time)

- 12/05/2013, Sunday at 12:00 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

- I should go to the cyclone shelter with the children's and my physically disorder wife

2-6. Did you evacuate?

- Yes

2-7. What was the reason behind the decision?

- The previous worst experience about Aila would be repeated.

To respondent who evacuated:

2-8. Where did you evacuate to?

- Cyclone Shelter

2-9. How long did it take to reach to the evacuation place?

- 25 min

2-10. What and with whom did you bring to the evacuation place?

- Granddaughter, wife, dry food & water

2-11. When did you go back to your house from the evacuation site? (Date and time)

- 16/05/2013, Thursday at 5:00 pm

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

- Ground floor & 1st floor

2-13. Was that sanitation facility separated for men and women?

- No separate sanitation facility for woman

To all respondents

2-14. What would you do for next time when you hear a warning?

- Of course I will go again to the shelter, because it was very painful situation have to face in Aila. From now I will go to the cyclone shelter soon after hearing the signal.

1. Respondent and Family Information

1-1. General information

- Respondent Name: **Md. Yakub Ali**
- Sex: **M**
- Age: **66**
- Educational Background (Years of Schooling) : **Elementary School**
- Religion: **Muslim**
- Relation to Head : **Head**
- Number of Family Members: Male (2) + Female (2) = Total (4)
- Boy (under 12 years old) : **0**; Girl (under 12 years old) : **0**

1-2. Main income source of household: Shrimp Business

Monthly average income per family: Tk. 6000

1-3. How many Livestock do you have now?

Cow () Poultry (5) Goat (2) Sheep () Other () , No.: ()

1-4. Category of the house: Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

- 11/05/2013, Saturday at 3:00 pm

2-2. From where did you get the information?

- From Radio

2-3. What did the information say?

- Warning for a big Cyclone, so everybody be careful.

2-4. When was your first time to hear CPP warning? (Date and time)

- 12/05/2013, Sunday at 4:00 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

- Oh Allah! Save us.

2-6. Did you evacuate?

- Yes
-

2-7. What was the reason behind the decision?

- For safety, to ensure our safety

To respondent who evacuated:

2-8. Where did you evacuate to?

- Cyclone Shelter

2-9. How long did it take to reach to the evacuation place?

- 20 min

2-10. What and with whom did you bring to the evacuation place?

- Whole family, dry food, water and necessary documents.

2-11. When did you go back to your house from the evacuation site? (Date and time)

- 16/05/2013, Thursday at 2:00 pm

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

- 1st floor

2-13. Was that sanitation facility separated for men and women?

- No separate sanitation facility for woman

To all respondents

2-14. What would you do for next time when you hear a warning?

- Yes of course, if possible we will go to the evacuation site, because nobody can say that the next one will not harm us.

1. Respondent and Family Information

1-1. General information

- Respondent Name: **Mst. Shamima Khatun**
- Sex: **F**
- Age: **30**
- Educational Background (Years of Schooling) : **Secondary School**
- Religion: **Muslim**
- Relation to Head : **Daughter**
- Number of Family Members: Male (4) + Female (4) = Total (8)
- Boy (under 12 years old) : Girl (under 12 years old) : 1

1-2. Main income source of household: Shrimp Business

Monthly average income per family: Tk. 10000

1-3. How many Livestock do you have now?

Cow () Poultry (30) Goat () Sheep () Other () , No.: ()

1-4. Category of the house: Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

- 13/05/2013, Monday at 8:00 pm

2-2. From where did you get the information?

- From my younger brother, Dhaka

2-3. What did the information say?

- The water level would be 8-10 feet high, storm will be coming & please store dry food.

2-4. When was your first time to hear CPP warning? (Date and time)

- 14/05/2013, Tuesday at 10:00 am

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

- Aila was destroyed all things, now this time should be careful.

2-6. Did you evacuate?

- Yes

2-7. What was the reason behind the decision?

- Have to protect the children's because the water level will be 8-10 feet high

To respondent who evacuated:

2-8. Where did you evacuate to?

- Cyclone Shelter

2-9. How long did it take to reach to the evacuation place?

- 30 min

2-10. What and with whom did you bring to the evacuation place?

- Elder brother, child's, birth certificates of child's, own national ID card, dry food, waer, cloth & cash.

2-11. When did you go back to your house from the evacuation site? (Date and time)

- 16/05/2013, Thursday at 12:00 pm

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

- 1st floor

2-13. Was that sanitation facility separated for men and women?

- No separate sanitation facility for woman

To all respondents

2-14. What would you do for next time when you hear a warning?

- We should be careful for cyclone & must be evacuate .

Khulna District, Dacope Upazila

1. Respondent and Family Information

1-1. General information

- Respondent Name: **Zugal Mandal**
- Sex: **M**
- Age: **80**
- Educational Background (Years of Schooling) : **Elementary School**
- Religion: **Hindu**
- Relation to Head : **Father**
- Number of Family Members: Male (3) + Female (2) = Total (5)
- Boy (under 12 years old) : 1 Girl (under 12 years old) : 1

1-2. Main income source of household: Agriculture Laborer

Monthly average income per family: Tk. 5000

1-3. How many Livestock do you have now?

Cow () Poultry (6) Goat (1) Sheep () Other () , No.: ()

1-4. Category of the house: Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

- 13/05/13, Monday at 4 pm

2-2.From where did you get the information?

- Microphone Announcement from CPP

2-3.What did the information say?

- This is warning for cyclone Mohasen, please store dry food.
- The water level would be 7-10 feet high

2-4. When was your first time to hear CPP warning? (Date and time)

- 13/05/13, Monday at 4 pm

2-5.What was your impression when you heard the CPP warning (What was in your mind at that time)?

- The better experience of Aila yet not forget, again Mohasen, how we will survive!

2-6.Did you evacuate?

- Yes

2-7.What was the reason behind the decision?

- To get relief from the danger

To respondent who evacuated:

2-8.Where did you evacuate to?

- School cum cyclone shelter

2-9.How long did it take to reach to the evacuation place?

- 1:30 hour

2-10.What and with whom did you bring to the evacuation place?

- Went with family & dry food

2-11. When did you go back to your house from the evacuation site? (Date and time)

- 16/05/2013, Thursday 5:00 pm

To respondent who evacuated to a cyclone shelter:

2-12.At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

- 1st floor

2-13. Was that sanitation facility separated for men and women?

- No separate sanitation facility for woman

To all respondents

2-14. What would you do for next time when you hear a warning?

- If it would happen again we will go to the shelter with whole family, dry food, water, and livestock.

1. Respondent and Family Information

1-1. General information

- Respondent Name: **Himani Roy**
- Sex: **F**
- Age: **25**
- Educational Background (Years of Schooling) : **Secondary School**
- Religion: **Hindu**
- Relation to Head: **Spouse**
- Number of Family Members: Male (4) + Female (3) = Total (7)
- Boy (under 12 years old) : 1 Girl (under 12 years old):

1-2. Main income source of household: **Agriculture Laborer**

Monthly average income per family: Tk. 5500

1-3. How many Livestock do you have now?

Cow (10) Poultry (7) Goat (6) Sheep () Other (, No.:)

1-4. Category of the house: **Thatched tent**

a. Cement b. Bricks c. Tin d. Polythene Sheet e. Thatched tent f. Wood
g. Others ()

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

- 13/05/13, Monday at 3-4 pm

2-2. From where did you get the information?

- Microphone Announcement from CPP unit team leader and volunteer

2-3. What did the information say?

- This is announcement of weather, mMahasen would hit the area, please be aware,
- please store dry food & drinking water

2-4. When was your first time to hear CPP warning? (Date and time)

- 13/05/13, Monday at 3-4 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

- I was afraid, if it does like Aila than how will we survive!

2-6. Did you evacuate?

- Yes

2-7. What was the reason behind the decision?

- Afraid of Cyclone

To respondent who evacuated:

2-8. Where did you evacuate to?

- Cyclone shelter

2-9. How long did it take to reach to the evacuation place?

- 1:00 hour

2-10. What and with whom did you bring to the evacuation place?

- Went with family, dry food, drinking water, cash, phone, jualaries & necessary papers.

2-11. When did you go back to your house from the evacuation site? (Date and time)

- 16/05/2013, Thursday 5:00 pm

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

- 1st floor

2-13. Was that sanitation facility separated for men and women?

- No separate sanitation facility for woman

To all respondents

2-14. What would you do for next time when you hear a warning?

- I will go in every signal.

1. Respondent and Family Information

1-1. General information

- Respondent Name: **Voben Roy**
- Sex: **M**
- Age: **45**
- Educational Background (Years of Schooling) : **Elementary School**
- Religion: **Hindu**
- Relation to Head: **Head**
- Number of Family Members: Male (**2**) + Female (**1**) = Total (**3**)
- Boy (under 12 years old) : **0** Girl (under 12 years old) : **0**

1-2. Main income source of household: Fisherman

Monthly average income per family: Tk. 5000

1-3. How many Livestock do you have now?

Cow () Poultry (**10**) Goat () Sheep () Other (, No.:)

1-4. Category of the house: Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

- 14/05/13, Tuesday at 3 pm

2-2. From where did you get the information?

- Microphone Announcement from CPP

2-3. What did the information say?

- Announcement about weather, Cyclone will hit this area; the water level will be high from normal wave at 7-8 so please aware feet, please store dry food & drinking water.

2-4. When was your first time to hear CPP warning? (Date and time)

- 14/05/13, Monday at 3 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

- I should go to cyclone shelter to safe myself.

2-6. Did you evacuate?

- Yes

2-7. What was the reason behind the decision?

- To survive.

To respondent who evacuated:

2-8. Where did you evacuate to?

- Cyclone shelter

2-9. How long did it take to reach to the evacuation place?

- 30 min

2-10. What and with whom did you bring to the evacuation place?

- Went with family & kept dry food & cloth.

2-11. When did you go back to your house from the evacuation site? (Date and time)

- 16/05/2013, Thursday 10:00 am

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

- 1st floor

2-13. Was that sanitation facility separated for men and women?

- No separate sanitation facility for woman

To all respondents

2-14. What would you do for next time when you hear a warning?

- If signal come again, to safe myself I will go again in cyclone shelter.

Satkhila District, Shymnagar Upazila

1. Respondent and Family Information

1-1. General information

- Respondent Name: **Mahmud Ali Maral**
- Sex: **M**
- Age: **52**
- Educational Background (Years of Schooling) : **Elementary School**
- Religion: **Muslim**
- Relation to Head : **Head**
- Number of Family Members: Male (5) + Female (4) = Total (9)
- Boy (under 12 years old) : 1; Girl (under 12 years old) : 1

1-2. Main income source of household: Shrimp Business

Monthly average income per family: Tk. 8000

1-3. How many Livestock do you have now?

Cow () Poultry (6) Goat (8) Sheep () Other () , No.: ()

1-4. Category of the house: Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

- 11/05/2013, Saturday at 5:00 pm

2-2. From where did you get the information?

- From Radio

2-3. What did the information say?

- Warning for cyclone Mohasen,
- water level will be 9 feet high,
- Please go to the evacuation site with dry food.

2-4. When was your first time to hear CPP warning? (Date and time)

- 12/05/2013, Sunday at 12:00 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

- I should go to the cyclone shelter with the children's and my physically disorder wife

2-6. Did you evacuate?

- Yes

2-7. What was the reason behind the decision?

- The previous worst experience about Aila would be repeated.

To respondent who evacuated:

2-8. Where did you evacuate to?

- Cyclone Shelter

2-9. How long did it take to reach to the evacuation place?

- 25 min

2-10. What and with whom did you bring to the evacuation place?

- Granddaughter, wife, dry food & water

2-11. When did you go back to your house from the evacuation site? (Date and time)

- 16/05/2013, Thursday at 5:00 pm

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

- Ground floor & 1st floor

2-13. Was that sanitation facility separated for men and women?

- No separate sanitation facility for woman

To all respondents

2-14. What would you do for next time when you hear a warning?

- Of course I will go again to the shelter, because it was very painful situation have to face in Aila. From now I will go to the cyclone shelter soon after hearing the signal.

1. Respondent and Family Information

1-1. General information

- Respondent Name: **Md. Yakub Ali**
- Sex: **M**
- Age: **66**
- Educational Background (Years of Schooling) : **Elementary School**
- Religion: **Muslim**
- Relation to Head : **Head**
- Number of Family Members: Male (2) + Female (2) = Total (4)
- Boy (under 12 years old) : **0**; Girl (under 12 years old) : **0**

1-2. Main income source of household: Shrimp Business

Monthly average income per family: Tk. 6000

1-3. How many Livestock do you have now?

Cow () Poultry (5) Goat (2) Sheep () Other (, No.:)

1-4. Category of the house: Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

- 11/05/2013, Saturday at 3:00 pm

2-2. From where did you get the information?

- From Radio

2-3. What did the information say?

- Warning for a big Cyclone, so everybody be careful.

2-4. When was your first time to hear CPP warning? (Date and time)

- 12/05/2013, Sunday at 4:00 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

- Oh Allah! Save us.

2-6. Did you evacuate?

- Yes

2-7. What was the reason behind the decision?

- For safety, to ensure our safety

To respondent who evacuated:

2-8. Where did you evacuate to?

- Cyclone Shelter

2-9. How long did it take to reach to the evacuation place?

- 20 min

2-10. What and with whom did you bring to the evacuation place?

- Whole family, dry food, water and necessary documents.

2-11. When did you go back to your house from the evacuation site? (Date and time)

- 16/05/2013, Thursday at 2:00 pm

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

- 1st floor

2-13. Was that sanitation facility separated for men and women?

- No separate sanitation facility for woman

To all respondents

2-14. What would you do for next time when you hear a warning?

- Yes of course, if possible we will go to the evacuation site, because nobody can say that the next one will not harm us.

1. Respondent and Family Informaion

1-1. General information

- Respondent Name: **Mst. Shamima Khatun**
- Sex: **F**
- Age: **30**
- Educational Background (Years of Schooling) : **Secondary School**
- Religion: **Muslim**
- Relation to Head : **Daughter**
- Number of Family Members: Male (4) + Female (4) = Total (8)
- Boy (under 12 years old) : Girl (under 12 years old) : **1**

1-2. Main income source of household: Shrimp Business

Monthly average income per family: Tk. 10000

1-3. How many Livestock do you have now?

Cow () Poultry (30) Goat () Sheep () Other () , No.: ()

1-4. Category of the house: Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

- 13/05/2013, Monday at 8:00 pm

2-2. From where did you get the information?

- From my younger brother, Dhaka

2-3. What did the information say?

- The water level would be 8-10 feet high, storm will be coming & please store dry food.

2-4. When was your first time to hear CPP warning? (Date and time)

- 14/05/2013, Tuesday at 10:00 am

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

- Aila was destroyed all things, now this time should be careful.

2-6. Did you evacuate?

- Yes

2-7. What was the reason behind the decision?

- Have to protect the children's because the water level will be 8-10 feet high

To respondent who evacuated:

2-8. Where did you evacuate to?

- Cyclone Shelter

2-9. How long did it take to reach to the evacuation place?

- 30 min

2-10. What and with whom did you bring to the evacuation place?

- Elder brother, child's, birth certificates of child's, own national ID card, dry food, waer, cloth & cash.

2-11. When did you go back to your house from the evacuation site? (Date and time)

➤ 16/05/2013, Thursday at 12:00 pm

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

➤ 1st floor

2-13. Was that sanitation facility separated for men and women?

➤ No separate sanitation facility for woman

To all respondents

2-14. What would you do for next time when you hear a warning?

➤ We should be careful for cyclone & must be evacuate .

Chittagong District, Sandwip Upazila

1. Respondent and Family Information

1-1. General information

- Respondent Name: Mohiuddin
- Sex: \sqrt{M} / F
- Age: 30
- Educational Background (Years of Schooling) : Elementary
- Religion: A Muslim
- Relation to Head : A
- Number of Family Members: Male (3) + Female (4) = Total (7)
- Boy (under 12 years old) : 0 Girl (under 12 years old) : 1

1-2. Main income source of household: **D** Agriculture Laborere

Monthly average income per family: Tk 6000

1-3. How many Livestock do you have now?

Cow (3) Poultry (10) Goat (2) Sheep () Other (, No.:)

1-4. Category of the house: **C** Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

1:30 pm 13/05/2013

2-2. From where did you get the information?

Radio, TV

2-3. What did the information say?

Signal is now 3, be prepared for evacuation

2-4. When was your first time to hear CPP warning? (Date and time)

2:00pm 14/05/2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

Have to evacuate as soon as possible

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

My family wanted to evacuate

To respondent who evacuated:

2-8. Where did you evacuate to?

Friend's house 5:00 pm

2-9. How long did it take to reach to the evacuation place?

2 hours

2-10. What and with whom did you bring to the evacuation place?

I moved with my family and took popped rice, bread, etc dry food and water

2-11. When did you go back to your house from the evacuation site? (Date and time)

4:00 pm 17/05/2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

Ground floor

2-13. Was that sanitation facility separated for men and women?

No

To all respondents

2-14. What would you do for next time when you hear a warning?

I will go to cyclone shelter for safety

1. Respondent and Family Information

1-1. General information

Respondent Name: Solaiman

Sex: M / F

Age: 80

Educational Background (Years of Schooling) : Elementary

Religion: A Muslim

Relation to Head : A head

Number of Family Members: Male (3) + Female (4) = Total (7)

Boy (under 12 years old) : 1 Girl (under 12 years old) : 1

1-2. Main income source of household: D Agriculture Laborere.

Monthly average income per family: Tk 4000

1-3. How many Livestock do you have now?

Cow () Poultry (3) Goat () Sheep () Other () , No.: ()

1-4. Category of the house: C Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)
4:10 am 13/05/2013

2-2. From where did you get the information?
UP Member's Radio

2-3. What did the information say?
Have to prepare to evacuate

2-4. When was your first time to hear CPP warning? (Date and time)
4:50 pm 14/05/2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?
I think Mahasen is coming and we have no chance to be alive

2-6. Did you evacuate?
Yes

2-7. What was the reason behind the decision?
To save my family

To respondent who evacuated:

2-8. Where did you evacuate to?
Rahamatpur cyclone shelter, 5:00 pm

2-9. How long did it take to reach to the evacuation place?
30 minites

2-10. What and with whom did you bring to the evacuation place?
Dry food, water and my family

2-11. When did you go back to your house from the evacuation site? (Date and time)
4:00 pm 17/05/2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd Secod floor)

2-13. Was that sanitation facility separated for men and women?
Yes

To all respondents

2-14. What would you do for next time when you hear a warning?
I will go to cyclone shelter

1. Respondent and Family Information

1-1. General information

- Respondent Name: Nurunnaher
- Sex: M / F ✓
- Age: 45
- Educational Background (Years of Schooling) : Elementary
- Religion: A Muslim
- Relation to Head : B spouse
- Number of Family Members: Male (3) + Female (4) = Total (7)
- Boy (under 12 years old) : 0 Girl (under 12 years old) : 0

1-2. Main income source of household: G Rural Transpor

Monthly average income per family: Tk 4000

1-3. How many Livestock do you have now?

Cow () Poultry () Goat () Sheep () other (No livestock, No.:)

1-4. Category of the house: Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

1:00 pm 14/05/2013

2-2. From where did you get the information

Radio

2-3. What did the information say?

There will be a big cyclone, be prepared for evacuation

2-4. When was your first time to hear CPP warning? (Date and time)

2:00 pm 15/05/2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

We prepared our house and prepared to go to cyclone shelter

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

To save the lives of our children

To respondent who evacuated:

2-8. Where did you evacuate to?

Board school cyclone shelter, 5:00 pm

2-9. How long did it take to reach to the evacuation place?

30 minutes

2-10. What and with whom did you bring to the evacuation place?

Nothing, with house members only

2-11. When did you go back to your house from the evacuation site? (Date and time)

6:00 pm 16/05/2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

Ground floor

2-13. Was that sanitation facility separated for men and?

No

To all respondents

2-14. What would you do for next time when you hear a warning?

We would take dry food and clothes with us, but we won't go to cyclone shelters any earlier as there are no facilities in cyclone shelters.

1. Respondent and Family Information

1-1. General information

Respondent Name: Roshid

Sex: M / F

Age: 32

Educational Background (Years of Schooling) : Elementary

Religion: A Muslim

Relation to Head : A head

Number of Family Members: Male (2) + Female (3) = Total (5)

Boy (under 12 years old) 0 Girl (under 12 years old) : 0

1-2. Main income source of household: D Agriculture Laborere

Monthly average income per family: Tk 4000

1-3. How many Livestock do you have now?

Cow (0) Poultry (12) Goat () Sheep () Other (, No.:)

1-4. Category of the house: C Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

7:00 pm 11/05/2013

2-2. From where did you get the information?

Television in the market; in a tea stall

2-3. What did the information say?

Signal no 3. the cyclone Mahasen is coming

2-4. When was your first time to hear CPP warning? (Date and time)

5:00 pm 15/05/2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

I was afraid and I prayed to my Allah

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

To save my family from the Mahasen

To respondent who evacuated:

2-8. Where did you evacuate to?

Rahamatpur Union porishad 5:00 pm

2-9. How long did it take to reach to the evacuation place?

20 minutes

2-10. What and with whom did you bring to the evacuation place?

Whole family and relatives, did not bring any goods

2-11. When did you go back to your house from the evacuation site? (Date and time)

4:00 pm 16/05/2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

Ans: second floor

2-13. Was that sanitation facility separated for men and women?

Ans: Yes

To all respondents

2-14. What would you do for next time when you hear a warning?

I will try to save my family

1. Respondent and Family Information

1-1. General information

- Respondent Name: Surma begum
- Sex: M / F ✓
- Age: 43
- Educational Background (Years of Schooling) : Elementary
- Religion: A Muslim
- Relation to Head : A head
- Number of Family Members: Male (3) + Female (4) = Total (7)
- Boy (under 12 years old) : 1 Girl (under 12 years old) :

1-2. Main income source of household: D Agricultural Labore

Monthly average income per family: Tk 3500

1-3. How many Livestock do you have now?

Cow (2) Poultry (10) Goat () Sheep () Other (, No.:)

1-4. Category of the house: C Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

2:00 pm 11/05/2013

2-2. From where did you get the information

Relative (my uncle)

2-3. What did the information say?

Signal 3 and be careful

2-4. When was your first time to hear CPP warning? (Date and time)

2:30 pm 15/05/2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

The last time I heard their warning was in 1991, two of my sons died in that cyclone. So, I was very much worried.

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

To save my family

To respondent who evacuated:

2-8. Where did you evacuate to?

Mayed vanga cyclone shelter

2-9. How long did it take to reach to the evacuation place?

1 hour

2-10. What and with whom did you bring to the evacuation place?

I went with my family and we could only bring dry food

2-11. When did you go back to your house from the evacuation site? (Date and time)

6:00 pm 16/05/2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.) Second floor

2-13. Was that sanitation facility separated for men and?

Yes

To all respondents

2-14. What would you do for next time when you hear a warning?

I will go to cyclone shelter and save my family

1. Respondent and Family Information

1-1. General information

Respondent Name: Nur hossain

Sex: M / F

Age: 40

Educational Background (Years of Schooling) : Elementary

Religion: A Muslim

Relation to Head : A head

Number of Family Members: Male (2) + Female (2) = Total (4)

Boy (under 12 years old) : 1 Girl (under 12 years old) : 1

1-2. Main income source of household: D Agriculture Laborer

Monthly average income per family: Tk 4000

1-3. How many Livestock do you have now?

Cow () Poultry () Goat () Sheep () Other () , No.: ()

1-4. Category of the house: C Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

11:00 am 11/05/2013

2-2. From where did you get the information?

From television of local tea store

2-3. What did the information say?

The cyclone Mahasen is coming towards Bangladesh, Signal is now 3

2-4. When was your first time to hear CPP warning? (Date and time)

3:00 pm 15/05/2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

I was worried, I went to cyclone shelter

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

To save my family

To respondent who evacuated:

2-8. Where did you evacuate to?

Union porishad 5:00 pm

2-9. How long did it take to reach to the evacuation place?

20 minutes

2-10. What and with whom did you bring to the evacuation place?

Whole family moved together with our livestock, cloths, dry food, water, cash

2-11. When did you go back to your house from the evacuation site? (Date and time)

4:00 pm 16/05/2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

second floor

2-13. Was that sanitation facility separated for men and women?

Yes

To all respondents

2-14. What would you do for next time when you hear a warning?

I will go to shelter for evacuation

Cox's Bazar District, Maheskhali Upazila

. Respondent and Family Information

1-1. General information

- Respondent Name: Ansanul Karim
- Sex: M
- Age: 37
- Educational Background (Years of Schooling) : Higher Secondary
- Religion: a Muslim
- Relation to Head : a head
- Number of Family Members: Male (3) + Female (2) = Total (5)
- Boy (under 12 years old) : 1 Girl (under 12 years old) : 1

1-2. Main income source of household: c Agriculture Farming & j (UP Member)

Monthly average income per family: Tk 5000

1-3. How many Livestock do you have now?

Cow (2) Poultry (10) Goat (5) Sheep () Other () , No.: ()

1-4. Category of the house: c Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

11.05.2013 at 3.00 pm

2-2. From where did you get the information?

Union Chairman

2-3. What did the information say?

Come to union parishad at 5 pm for the meeting on Cyclone preparedness

2-4. When was your first time to hear CPP warning? (Date and time)

12.05.2013 at 6 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

I have to warn all the community people about the cyclone.

2-6. Did you evacuate?

No

2-7. What was the reason behind the decision?

My house was safe enough to stay. Moreover 30 people use my house as a shelter.

To respondent who evacuated:

2-8. Where did you evacuate to? When and What time?

2-9. How long did it take to reach to the evacuation place

2-10. What and with whom did you bring to the evacuation place?

2-11. When did you go back to your house from the evacuation site? (Date and time)

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

2-13. Was that sanitation facility separated for men and women?

To all respondents

2-14. What would you do for next time when you hear a warning?

This time I was able to inform 80% of the community people. Next time, I will try to inform all people.

Respondent and Family Information

1-1. General information

- Respondent Name: Rashida Begum
- Sex: F
- Age: 20
- Educational Background (Years of Schooling) : Primary
- Religion: a Muslim
- Relation to Head : b spouse
- Number of Family Members: Male (2) + Female (2) = Total (4)
- Boy (under 12 years old) : 1 Girl (under 12 years old) : 1

1-2. Main income source of household: j (Daily Labour)

Monthly average income per family: Tk 2400

1-3. How many Livestock do you have now?

Cow (0) Poultry (0) Goat (0) Sheep () Other (, No.:)

1-4. Category of the house: e Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

12.05.2013 at 7 pm

2-2. From where did you get the information?

From relative

2-3. What did the information say?

Cyclone might attack to our village

2-4. When was your first time to hear CPP warning? (Date and time)

14.05.2013 at 8 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

If the cyclone attacks, her house might be washed away, because she lives close to the sea.

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

She wasn't feeling safe staying at her house.

To respondent who evacuated:

2-8. Where did you evacuate to? When and What time?

15.05.2013 at 8.30pm

2-9. How long did it take to reach to the evacuation place?

30 minutes

2-10. What and with whom did you bring to the evacuation place?

Cloths, dry food, money. She went to shelter with her family.

2-11. When did you go back to your house from the evacuation site? (Date and time)

17.05.2013 at 10 am

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

1st floor

2-13. Was that sanitation facility separated for men and women?

No

To all respondents

2-14. What would you do for next time when you hear a warning?

If I don't feel safe, I will go to shelter.

1. Respondent and Family Information

1-1. General information

○ Respondent Name: Saleh Nur

- Sex: M
- Age: 36
- Educational Background (Years of Schooling) : Higher Secondary
- Religion: a Muslim
- Relation to Head : a head
- Number of Family Members: Male (3) + Female (2) = Total (5)
- Boy (under 12 years old) : 2 Girl (under 12 years old) : 0

1-2. Main income source of household: f Fishing Laborer

Monthly average income per family: Tk 4000

1-3. How many Livestock do you have now?

Cow (0) Poultry (30) Goat (5) Sheep () Other (, No.:)

1-4. Category of the house: e Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

12.05.2013 at 9.15 am

2-2.From where did you get the information?

CPP

2-3.What did the information say?

A cyclone called Mahasen might attack Maheshkhali. Warning signal 3 is going on.

2-4. When was your first time to hear CPP warning? (Date and time)

12.05.2013 at 9.15 am

2-5.What was your impression when you heard the CPP warning (What was in your mind at that time)?

The weather was good at that time. But everybody were talking about Mahasen. So I was afraid a bit.

2-6.Did you evacuate?

yes

2-7.What was the reason behind the decision?

Chairman and Ward member forced them to evacuate

To respondent who evacuated:

2-8.Where did you evacuate to? When and What time?

In my relatives house. 15.05.2013 at 10 pm

2-9.How long did it take to reach to the evacuation place?

1 hour

2-10.What and with whom did you bring to the evacuation place?

Money and family members

2-11. When did you go back to your house from the evacuation site? (Date and time)
16.05.2013 at 7 pm

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

2-13. Was that sanitation facility separated for men and women?

To all respondents

2-14. What would you do for next time when you hear a warning?

If I do not feel safe staying in my house, I will definitely move to my relative's house or cyclone shelter. But I will try to take some dry food with me.

Cox's Bazar District, Kutubda Upazila

1. Respondent and Family Information

1-1. General information

- Respondent Name: Farida Begum
- Sex: F
- Age: 35
- Educational Background (Years of Schooling) : Primary
- Religion: a Muslim
- Relation to Head : b spouse
- Number of Family Members: Male (4) + Female (1) = Total (5)
- Boy (under 12 years old) : Girl (under 12 years old) :

1-2. Main income source of household: e Fishing Business

Monthly average income per family: Tk 30,000

1-3. How many Livestock do you have now?

Cow (1) Poultry () Goat () Sheep () Other (), No.: ()

1-4. Category of the house: e

a. Cement b. Bricks c. Tin d. Polythene Sheet e. Thatched tent f. Wood
g. Others ()

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

Union Chairman, 11.05.2013 at 3.15 pm

2-2. From where did you get the information?

Chairman

2-3. What did the information say?

Signal 3 is going on. Cyclone called Mahasen might attack Koyarrbill union. As she is ward member, Chairman told her to call a meeting and take necessary steps.

2-4. When was your first time to hear CPP warning? (Date and time)

12.05.2013 at 5 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

4 cyclone shelters in her union is out of order. She was thinking how she will accommodate all the people to the cyclone shelters as there are only few cyclone shelters in her union.

2-6. Did you evacuate?

yes

2-7. What was the reason behind the decision?

As this union is an Island and the place she is living, is not safe enough to protect her and her family from the cyclone attack.

To respondent who evacuated:

2-8. Where did you evacuate to? When and What time?

Cyclone shelter. On 15.05.2013 at 1.00pm

2-9. How long did it take to reach to the evacuation place?

30 minutes

2-10. What and with whom did you bring to the evacuation place?

I went to cyclone shelter with 70 people.

2-11. When did you go back to your house from the evacuation site? (Date and time)

At 4pm on 16.05.2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

3rd floor

2-13. Was that sanitation facility separated for men and women?

Yes

To all respondents

2-14. What would you do for next time when you hear a warning?

- We all want to go to the cyclone shelters. But most of the cyclone shelters in Koyarrbill union is not safe. Moreover considering the cyclone shelters, population is higher. More than 20000 left Kutubdia Upazila after hearing the Cyclone news.
- Accurate information is necessary.

1. Respondent and Family Information

1-1. General information

- Respondent Name: Rosanara Begum
- Sex: F
- Age: 30
- Educational Background (Years of Schooling) : Higher secondary
- Religion: a Muslim
- Relation to Head : b spouse
- Number of Family Members: Male (3) + Female (3) = Total (6)
- Boy (under 12 years old) : 1 Girl (under 12 years old) : 1

1-2. Main income source of household: j Other (brick field)

Monthly average income per family: Tk 50,000

1-3. How many Livestock do you have now?

Cow (3) Poultry () Goat () Sheep () Other () , No.: ()

1-4. Category of the house: e Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

11.05.2013 at 3 pm

2-2. From where did you get the information?

Union Chairman

2-3. What did the information say?

Cyclone Mahasen might attack in this union. He told me to prepare for decimating the information to the community people.

2-4. When was your first time to hear CPP warning? (Date and time)

6 pm on 13.05.2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

Have to inform the community people quickly and have to prepare the cyclone shelters.

2-6. Did you evacuate?

yes

2-7. What was the reason behind the decision?

To save my family. Moreover, as I am the leader of my village and if I move to shelter, then community people will follow me as well.

To respondent who evacuated:

2-8. Where did you evacuate to? When and What time?

Cyclone shelter. 15.05.2013 at 1.00pm

2-9. How long did it take to reach to the evacuation place?

30 minutes

2-10. What and with whom did you bring to the evacuation place?

Money and with 100 people from my ward.

2-11. When did you go back to your house from the evacuation site? (Date and time)

3.30 pm on 16.05.2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

3rd floor

2-13. Was that sanitation facility separated for men and women?

Yes

To all respondents

2-14. What would you do for next time when you hear a warning?

He will keep more dry food in the cyclone shelter for the people.

1. Respondent and Family Information

1-1. General information

Respondent Name: Md. Johurul Islam

Sex: M

Age: 37

Educational Background (Years of Schooling) : Higher secondary

Religion: Muslim

Relation to Head : a head

Number of Family Members: Male (3) + Female (4) = Total (7)

Boy (under 12 years old) : 1 Girl (under 12 years old) : 1

1-2. Main income source of household: e Fishing Business

Monthly average income per family: Tk 5000

1-3. How many Livestock do you have now?

Cow () Poultry () Goat () Sheep () Other () , No.: ()

1-4. Category of the house: e Thatched tent

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

13.05.13 at 5.00 pm

2-2. From where did you get the information?

Radio

2-3. What did the information say?

Cyclone Mahasen might attack Cox's Bazar district. Local warning signal 4 going on.

2-4. When was your first time to hear CPP warning? (Date and time)

13.05.2013 at 6 pm

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

He has to go to cyclone shelter with his family.

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

His father died in the cyclone of 1991. He wants to save his family.

To respondent who evacuated:

2-8. Where did you evacuate to? When and What time?

Ifat Cyclone shelter. 16.05.13 at 7 am.

2-9. How long did it take to reach to the evacuation place?

45 minutes

2-10. What and with whom did you bring to the evacuation place?

Dry food, money and his family members.

2-11. When did you go back to your house from the evacuation site? (Date and time)

At 5 pm on 16.05.2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

Ground floor

2-13. Was that sanitation facility separated for men and women?

No

To all respondents

2-14. What would you do for next time when you hear a warning?

I will try to take more information about the warning and I will keep my radio on. I will keep more dry food with me.

Feni District, Sonagazi Upazila

1. Respondent and Family Information

1-1. General information

- Respondent Name: Sefali Begum
- Sex: M / F ✓
- Age: 30
- Educational Background (Years of Schooling) : Elementary
- Religion: A Muslim
- Relation to Head : b spouse
- Number of Family Members: Male (3) + Female (1) = Total (4)
- Boy (under 12 years old) : 2 Girl (under 12 years old) : 0

1-2. Main income source of household: C Agriculture Farming

Monthly average income per family: Tk 25000

1-3. How many Livestock do you have now?

Cow () Poultry (15) Goat () Sheep () Other (, No.:)

1-4. Category of the house: B Bricks

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

6:00 am 13/05/2013

2-2. From where did you get the information?

Ans: (from my husband lives in Dubai)

2-3. What did the information say?

Signal no: 3 so you should be alert all time

2-4. When was your first time to hear CPP warning? (Date and time)

1:30 am 14/05/2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time?)

I was not worried, because my house is high.

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

My brother in law told me to evacuate. So I went to cyclone shelter.

2-8. Where did you evacuate to?

Bangladesh Rice Research Institute (BRRI). 11:00 am

2-9. How long did it take to reach to the evacuation place?

20 minutes

2-10. What and with whom did you bring to the evacuation place

With my children & cash, cloths

2-11. When did you go back to your house from the evacuation site? (Date and time)

11:45 am 16/05/2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

Ans: Third floor

2-13. Was that sanitation facility separated for men and women?

Yes

To all respondents

2-14. What would you do for next time when you hear a warning?

I think my house is safer than cyclone shelter so I will stay in my house.

1. Respondent and Family Information

1-1. General information

Respondent Name: Abul kalam

Sex: $\sqrt{M / F}$

Age: 40

Educational Background (Years of Schooling) : Elementary

Mobile Number : 01824472338

Religion: A

a. Muslim b. Hindu c. Buddhism d. Christian e. Other ()

Relation to Head : A

a. head b. spouse c. son/daughter d. father/mother e. brother/sister

f. son/daughter in law g. Sister/Brother in law h. grandchild i. grandparent

j. other relatives k. non-relatives

Number of Family Members: Male (3) + Female (2) = Total (5)

Boy (under 12 years old) : 1 Girl (under 12 years old) : 1

1-2. Main income source of household: D Agriculture Laborer

Monthly average income per family: Tk 5000

1-3. How many Livestock do you have now?

Cow () Poultry (5) Goat () Sheep () Other () , No.: ()

1-4. Category of the house: C Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

1:00 pm 13/05/2013

2-2. From where did you get the information?

CPP person, verbally

2-3. What did the information say?

Now signal no is 3; the cyclone may become stronger, be prepared to go to a cyclone shelter

2-4. When was your first time to hear CPP warning? (Date and time)

1:00 pm 13/05/2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time?)

I was busy to safeguard my family

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

Save my family

To respondent who evacuated:

2-8. Where did you evacuate to?

Bangladesh Rice Research institute (BRR). 3:30 pm

2-9. How long did it take to reach to the evacuation place?

20 minutes

2-10. What and with whom did you bring to the evacuation place

Cloths, money & my family

2-11. When did you go back to your house from the evacuation site? (Date and time)

7:30 am 17/05/2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.) Second floor

2-13. Was that sanitation facility separated for men and women?

No

To all respondents

2-14. What would you do for next time when you hear a warning?

I will be busy to save my family

1. Respondent and Family Information

1-1. General information

Respondent Name: Mizanur Rahman

Sex: $\sqrt{M / F}$

Age: 25

Educational Background (Years of Schooling) : Secondary School

Religion: A

a. Muslim b. Hindu c. Buddhism d. Christian e. Other ()

Relation to Head : C

a. head b. spouse c. son/daughter d. father/mother e. brother/sister

f. son/daughter in lawg. Sister/Brother in law h. grandchild i. grandparent

j. other relatives k. non-relatives

Number of Family Members: Male (3) + Female (4) = Total (7)

Boy (under 12 years old) : 2 Girl (under 12 years old) : 0

1-2. Main income source of household: G Rural Transport

Monthly average income per family: Tk: 25000

1-3. How many Livestock do you have now?

Cow () Poultry (20) Goat () Sheep () Other () , No.: ()

1-4. Category of the house: C Tin

2. Detail behavior in Cyclone Mahasen

Please tell us your behavior during Mahasen.

2-1. When was your first time to get the information about Mahasen? (Date and time)

8:00 pm 11/05/2013

2-2. From where did you get the information

T.V (own house)

2-3. What did the information say?

Signal 3 one cyclone is coming that's name Mahasen & windy speed 60-80 K.M

2-4. When was your first time to hear CPP warning? (Date and time)

10:30 am 13/05/2013

2-5. What was your impression when you heard the CPP warning (What was in your mind at that time)?

I thought it will be a great danger so I need to evacuation as soon as possible

2-6. Did you evacuate?

Yes

2-7. What was the reason behind the decision?

To save my family from the Mahasen

To respondent who evacuated:

2-8. Where did you evacuate

Sonagazi my relative house. 10:30 am

2-9. How long did it take to reach to the evacuation place?

1 hour

2-10. What and with whom did you bring to the evacuation place?

Hole family, emergency papers, cash, jewelries

2-11. When did you go back to your house from the evacuation site? (Date and time)

3:00 pm 17/05/2013

To respondent who evacuated to a cyclone shelter:

2-12. At what level was the sanitation facility located? (for example: ground floor, 1st floor, 2nd floor etc.)

Ground floor

2-13. Was that sanitation facility separated for men and?

Yes

To all respondents

2-14. What would you do for next time when you hear a warning?

I will try to save my family from cyclone & I will help elderly people of our village