

# Quarterly Report

## Vulnerability and Risk Reduction Through a Community-Based System for Flood Monitoring and Forecasting

### *APS: Enhanced Disaster Preparedness in South Asia: Through Community- Based and Regional Approaches*

**USAID Cooperative Agreement No. 367-A-00-02-00224-00**

*Submitted to*



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**March 2006**

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# Quarterly Report

## January 1 through March 31, 2006

### 1.0 Introduction

This project is contracted by USAID to the Colorado-based company Riverside Technology, inc. along with Bangladesh-based partners Center for Environment and Geographic Information Services (CEGIS) and the Bangladesh Disaster Preparedness Centre (BDPC). The project is known in short as the *Community Flood Information System*, or CFIS.

### 2.0 Program Performance

#### 2.1 Summary

The following is a summary of key activities performed during the quarter:

- **Validation Workshop:** A workshop was held on 7 February 2006 at the Upazila Conference Room of Nagorpur Upazila, Tangail district. Approximately 40 representatives from different Government of Bangladesh (GoB) departments, NGOs, civil society, and local government participated in the workshop. Workshop objectives included validation of the sustainable flood warning dissemination procedure draft outline through participatory discussion.
- **Identification of Inactive Change Agents and Volunteers:** A participatory review of change agents and volunteers was conducted in each study area. Inactive change agents were identified and replaced.
- **Identification of GOB departments and NGOs working the intervention area:** In order to promote project sustainability, team members identified organizations working in the intervention area to be used as potential channels for linking flood information from the Upazila to the Union level by integrating the project into their own development structure. A brief list of GOB Departments and number of organizations working in the area is provided in **Table 2**.
- **Coordination Meetings** were held for the members of Union Disaster Management Committees and Village Flood Warning Dissemination Committees. Meeting dates, locations and number of attendees provided in **Table 3**.
- Evaluated needs for an additional community forecast dissemination node.
- Scheduled a team of hydrologists and sociologists to conduct a reconnaissance field visit mid April 2006 in Daulatpur, Manikganj to locate four new locations for flags and gauges. Locations of existing gauges and potential new locations provided in **Table 4**.
- Project members attended workshops to disseminate information about CFIS to members of the press and communities as detailed in **Table 5**.

- Conducted training on WATSURF output to field managers.
- Tim Martin met with Sezin Tokar and Rob Thayer of USAID in Washington D.C. to review the goals and objectives of the project, discuss progress to date and major findings, discuss funding opportunities for a pilot digital terrain model using LIDAR technology, and other opportunities to address Bangladesh's critical need for a basin forecasting model to extend the lead time of the flood forecast beyond the present two days to ten days.
- In a related activity, Tim Martin met with Marian Bassett of USTDA in Washington D.C. to discuss funding opportunities for a pilot digital terrain model in the floodplain of Bangladesh and another regional basin flood model for the Ganges, Brahmaputra and Meghna basins. The latter is particularly needed by Bangladesh to extend the lead-time of the forecasting model from the present two days to ten days.

## **2.2 Finances**

A summary of project finances is provided in **Table 1**.

## **3.0 Notification**

Project Manager Tim Martin is planning to travel to Dhaka in May 2006 to discuss year four activities and to provide technical assistance. The year four work plan is under preparation and will be finalized during Dr. Martin's trip to Dhaka.

On August 25 and December 15, 2005 RTi submitted proposals with requests for additional funding to the CTO in order to implement additional replication activities during project Years 4 and 5.

**Table 1: Financial Summary**

Ref	Description	OFDA Cost	Own Cost	Total
1	Total Budget for 5-Year Project	\$541,991	\$178,316	\$720,307
2	Cumulative invoiced thru previous quarter	\$255,436	\$112,313	\$367,749
3	Total invoiced this quarter	<u>\$7,797</u>	<u>\$588</u>	<u>\$8,385</u>
4	Cumulative invoiced thru this quarter (2+3)	\$263,233	\$112,901	\$376,134
5	Work completed but not yet invoiced to USAID <sup>1/</sup>			
	RTI	\$0	\$0	\$0
	CEGIS	\$32,391	\$18,085	\$50,476
	BDPC	<u>\$3,200</u>	<u>\$0</u>	<u>\$3,200</u>
	Total work completed but not yet invoiced to USAID <sup>1/</sup>	\$35,591	\$18,085	\$53,676
6	Cumulative invoiced plus work completed (4+5)	\$298,824	\$130,986	\$429,810
7	<b>Actual</b> cumulative invoiced plus work completed as percent of Total 5-Year Project (6 as % of 1)	<b>55.1%</b>	<b>73.5%</b>	<b>59.7%</b>
8	<b>Target</b> cumulative costs through reporting period	<b>65.0%</b>	<b>65.0%</b>	<b>65.0%</b>

<sup>1/</sup> Invoices for most of this completed work were received during Q1 of 2006 and not yet invoiced to OFDA

**Table 2: Organizations and Government Departments in Intervention Area**

	<b>GoB Departments</b>	<b>Number of Staff under Bara Bonnaya</b>	<b>Number of Staff under Dhunail</b>
1	Agriculture	3	3
2	Fisheries	3	2
3	Livestock	2	1
4	BRDB	6	1
5	Youth and Development	1	1
6	Social Welfare	1	1
7	Health	4	3
8	Family Planning	5	8
9	Ansar & VDP	36	6
	<b>Total Staff from GOB Departments</b>	61	66
	<b>NGOs</b>	<b>Number of Organization</b>	<b>Number of Staff</b>
1	Bara Bonnaya	9	72
2	Dhunail	4	19
	<b>Total</b>	13	91
	<b>Educational Institutions</b>	<b>Number of Educational Institutions</b>	<b>Number of Staff</b>
1	Bara Bonnaya	17	86
2	Dhunail	33	122
	<b>Total</b>	50	208

**Table 3: Coordination Meetings for Union Disaster Management and Village Flood Warning Dissemination Committees.**

	Stakeholder	Date	Place	Participants
1.	Members of UDMC at Ziyon Pur	13 Jan 2006	Ziyonpur Union Parishad	15
2.	Members of UDMC at Doptiyor	17 Jan 2006	Doptiyor Union Parishad	17
3.	Village Flood Management Committee, Ward 2, Bara Bonnaya	18 Mar 2006	Bonnaya Hat	20
4.	Village Flood Management Committee, Ward 1, Bara Bonnaya	21 Mar 2006	House of Ashgar Mollah	22
5.	Village Flood Management Committee, Doptiyor	24 Mar 2006	Reg. Primary School	18
<b>Total Participants</b>				92

**Table 4. Location of Existing Gauges and Potential New Gauge Locations**

<b>Existing Gauge Locations</b>				
<b>District</b>	<b>Thana</b>	<b>Union</b>	<b>Village</b>	
Manikganj	Ghior	Paila	East Paila	
			Begun Narchi	
	Daulatpur	Chak mirpur	Chak mirpur	
			Kalia	Bohra
			Bhadra	Singdair
			Dhamsar	Natuabari
				Kakna
	Jiyanpur	Lautara		
Shaturia	Baraid	Uttar Sonka		
Tangail	Nagarpur	Goihata	Goihata	
			Sunsi	
		Mamudnagar	Pakutia	
			Uttarpara	
			Dhubtoir	Bade Bhugolhat
		Dhunail		
		Alakdia	Beel Kustia	
		Satgachha	Bhalkutia	
Salimabad	Ghunipara			
<b>New Gauge Locations</b>				
Manikganj	Ghior	Chak Mirpur	Char Mastul	
	Daulatpur	Dhamshar	Nirali	
Tangail	Nagarpur	Makhna	Betuajani	
		Bharra	Chowbaria	

**Table 5. Conferences and Meetings Attended by CFIS Project Members, January - March 2006**

CONFERENCE/MEETING TITLE – DESCRIPTION	DATE	SPONSER/ HOST	CFIS ATTENDEES (NAMES)	OTHER ATTENDEES (AGENCIES /PROJECTS)	CFIS PRESENTATION TITLE AND/OR BRIEF DESCRIPTION
National Workshop on Community Based Approaches to Flood Management in Bangladesh	24-25 Feb 06	Bangladesh Union Parishad (BUP) and the World Meteorological Organization (WMO)	Ahmadul Hassan Awlad Hossain	Comprehensive Disaster Management Programme (CDMP), Community Flood Management Committee (CFMC), Disaster Management Bureau (DMB), Bangladesh Water Partnership (BWP), Water Resources Planning Organization (WARPO), and the Ministry of Food and Disaster Management (MoFD) – Approximately 60 participants.	Involving Communities in Effective Dissemination of Flood Warning: Lessons from a Pilot Activity.
Short Course on Water and Flood Management for Members of the Press	27-29 Mar 06	Institute of Water Modeling	Giasuddin Ahmed Choudhury Ahmadul Hassan Awlad Hossain	Bangladesh University of Engineering and Technology (BUET) , Institute of Water and Flood Management, Approximately 60 members of the press from local, national papers and other media.	CFIS project concept and progress was presented to short course attendees. The short course was organized in order to familiarize members of the press with the water sector to foster improved reporting on water management and related issues.