

## **CLIMATE CHANGE ADAPTATION IN RURAL COMMUNITIES OF FIJI (CCA) PROJECT**

**Implemented by PACE- SD and IAS, USP  
Funded by AusAID**

**Sixth Progress Report  
February 2009 - July 2009**

### **1.0 INTRODUCTION**

This report briefly describes the CCA project activities undertaken between February 2009 and July 2009. During this period, implementations of adaptation measures for all of the sites were the key achievements. As part of this process, much discussion and research into the most suitable options was carried out with local technical experts, the management and the community to ensure suitable implementation measures. The CCA Project Advisory Committee held its meeting on the 23<sup>rd</sup> of July 2009. The adaptation plan for each of the six sites for the next five months (August 09 – December 09) is attached in Appendix 1.

### **2.0 KEY ACTIVITIES – Implementation of Adaptation Measures**

#### **2.1 Water Scarcity Sites**

##### **2.1.2 Votua**

As follows were some of the main activities that were carried out during this period.

- During the low depression which struck Fiji in February 2009, a land slide occurred along the access road to the tank site. Clearing of this access site was carried out during this period.
- Construction of the shelter for the water tanks was constructed.

The adaptation work at Votua is virtually completed

##### **2.1.2 Druadrua**

The three main activities in Druadrua were (i) rehabilitation of the dam system, (ii) setting up of the rain harvesting system and (iii) construction of a water reticulation system.

The water engineer visited the site on the 29<sup>th</sup> - 30<sup>th</sup> July 2009

As follows were some of the main activities that were carried out during this period.

- Laying of pipes for the reticulation system and taking measurements for the rain harvesting system.
- Construction of the water storage tanks foundation above the village for the dam water and for the water collected from the rain harvesting system within the village.

### **2.1.3 Bavu**

As follows were some of the main activities that were carried out during this period.

- The second stage of the construction of guttering and laying of pipes for the reticulation system was carried out by the technical team.
- Construction of the water storage system above the village.
- The dismantling of the old leaking metal tank and replacement with a 10,000 L Rotamould tank
- Bavu was selected as a site for the production of a documentary on adaptation activities carried out by communities on the 6<sup>th</sup> May 2009. The project was funded through the National Capacity Self Assessment project coordinated under UNDP.
- Collection of water samples for water quality assessment was carried out on 6<sup>th</sup> May 2009.
- Field assessment carried out by the post graduate Climate Change students (SE414) at Bavu on the 9<sup>th</sup> May 2009.

## **2.2 Coastal Sites**

### **2.2.1 Buretu**

As follows were some of the main activities that were carried out during this period.

- The pruning of vetiver and the beautification of the river bank carried out by the community on a monthly basis.
- Buretu was selected as a site for the production of a documentary on adaptation activities carried out by communities on the 28<sup>th</sup> April 2009. The project was funded through the National Capacity Self Assessment project coordinated under UNDP.
- Field assessment carried out by the post graduate Climate Change students (SE414) at Buretu on the 13<sup>th</sup> May 2009.

- A French Student (Intern), Mr. Yannis Lemonnier, and a third year USP environmental science student, were engaged from June to August (3 months) to conduct land use and soil surveys of the Buretu area. The output of their work would facilitate the development of a drainage plan for Buretu.

### **2.2.2 Korotasere**

- A stream profile was carried out on the 1<sup>st</sup> – 2<sup>nd</sup> May 2009. This information together with the hydrological assessment carried out by LWRM will be used to design the river bank protection measure suitable for Korotasere.

### **2.2.2 Navukailagi**

- A second vulnerability and adaptation assessment was carried out on the 26<sup>th</sup> – 28<sup>th</sup> May, 2009. The assessment was a joint collaboration between USP and the Land and Water Resources Management Division (LWRM) of the Ministry of Agriculture.
- The LWRM Engineer and his assistant completed the design of the coastal and river protection measures for Navukailagi in July with the presentation to the CCA project management team on the 17<sup>th</sup> July 2009.
- Navukailagi community started to collect rocks and boulders for the coastal protection measures on the 5<sup>th</sup> June 09, while the village headman was tasked to test the depth of the substrate along the marked coastline.

## **3.0 LESSONS LEARNED**

### ***3.1 Importance of proper planning and consultation among the technical experts, the project team and the community on the design and required adaptation activities.***

As some of the project sites are quite remote, proper planning and consultation prior to and during the field work is vital to ensuring that the field engagements are carried out in the most effective and efficient way.

### ***3.2 Community empowerment greatly assists in the implementation of the adaptation activities.***

The communities once encouraged and empowered to contribute to decision making in the adaptation activities, become very resourceful. All they need is

guidance and encouragement; and the work will be carried out to the satisfaction of the project team.

#### **4.0 ISSUES OF CONCERN**

##### **4.1 Completing the required activities against the project timeline.**

In retrospect this was an issue during this reporting period. However, this has been addressed and the project team is pleased that AusAID has kindly extended the project to the end of December 2009.

#### **5.0 BUDGET AND EXPENDITURE NARRATIVE**

The main project expenditure for this particular period (February 2009 – July 2009) were associated with local air travel, per-diem, purchasing of material for research and equipments, plumbing and maintenance, repair & maintenance of equipment and community workshop training. A financial statement as at 30<sup>th</sup> June 2009 is attached below for your information.

The balance as of the 30<sup>th</sup> June 2009 is F\$79,783.84. During the months of July, August and September, implementations of adaptation activities were carried out at Bavu and Navukailagi villages. The expenditure commitment for this plus other project related expenses is approximately F\$30,000.00. This amount plus the deduction of 50% of USP overhead charges (F\$37,920.00) would bring the expenditure commitments to 80% of the accessed fund from the last period. A signed financial statement to the end of September 2009 will be forwarded to AusAID by the middle of October for confirmation of the above commitment estimates.

Therefore, to assist us in fully implementing the remaining adaptation activities by the end of December 2009 and the convening of relevant workshops, we are requesting for the last tranche of funds of F\$125,000.00.

Suva, Fiji.

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**Our Ref:** 201127

**Your Ref:**

**Date:** 30th June 2009

**Financial Statement for May and June 2009**

<b>Balance Carried Forward</b>	<b>£ 103,229.84</b>
<b><u>Income</u></b>	
Grants Received	
<b>Total Funds Available</b>	<b>103,229.84</b>
<b><u>Expenditure</u></b>	
Staff Costs	-
Printing & Stationaries	-
Materials & Supplies	485.00
Travel	240.00
Students Support	-
Research costs	4,880.00
Water Supply - Tank & Materials	17,841.00
<b>Total Expenditure</b>	<b>23,446.00</b>
<b>Transfer out</b>	<b>-</b>
<b>Balance as at 30th June 2009</b>	<b>79,783.84</b>



**Kolinio Boila**  
**Finance Manager**

## **ANNEX 1: TENTATIVE WORKPLAN FOR THE NEXT FIVE MONTHS AUGUST – DECEMBER 2009**

<b>SITE/MONTH</b>	<b>August</b>	<b>September</b>	<b>October</b>	<b>November</b>	<b>December</b>
<b>VOTUA</b>	<ul style="list-style-type: none"> <li>Adaptation activities completed</li> </ul>			Post-adaptation workshop	
<b>BAVU</b>	<ul style="list-style-type: none"> <li>Construction of storage tanks</li> <li>Improvement of rain harvesting system</li> <li>Improvement of water reticulation system</li> <li>Rehabilitation of old dam</li> </ul>			Post adaptation workshop	
<b>DRUADRU</b>	<ul style="list-style-type: none"> <li>Completion of dam system upgrade</li> <li>Construction of storage tanks</li> <li>Construction of reticulation system</li> <li>Completion of compost toilets</li> </ul>			Post adaptation workshop	
<b>BURETU</b>	<ul style="list-style-type: none"> <li>Reinforcement of river bank protection structures</li> <li>Construction of boxes as reinforcements &amp; mangrove seedling shelters</li> <li>Elevation, landuse &amp; soil surveys for drainage improvement works</li> <li>Establishment of nursery for coastal plants for erosion control</li> </ul>				Post adaptation workshop
<b>KOROTASERE</b>	<ul style="list-style-type: none"> <li>Assessment &amp; design of river bank protection measures</li> <li>Construction of bank protection works – ‘hard measures’</li> </ul>				Post adaptation workshop
<b>NAVUKAILAGI</b>	<ul style="list-style-type: none"> <li>Assessment &amp; design of coastal &amp; river bank protection measures</li> <li>Construction of coastal and river bank protection works</li> <li>Re-establishment of mangrove nursery</li> <li>Further replanting of mangroves and vetiver</li> </ul>				Post adaptation workshop