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

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

ANNUAL REPORT September 2007 – September 2008

1.0 INTRODUCTION

This report briefly describes the CCA project activities undertaken between September 2007 and September 2008. In terms of Projects' implementation plan (as per proposal), activities planned for year 2, Components 2 – Capacity Building for Climate Change Adaptation and Component 3 – Implementation of Approved Adaptation Plans have been implemented. These included the;

- The finalization of the technical assessments and Fijian translations of the information sheets for the pilot sites
- The development and endorsement of the adaptation plans in the six sites and the review of each adaptation plan with the community and management team.
- The implementation of more than half of the community action plans in each of the six sites.
- The commencement of the monitoring and evaluation by the community.

Several lessons learned and issues of concern have also been included at the end of this report.

2.0 KEY ACHIEVEMENTS

2.1 Finalization of the technical assessment reports and translated information sheets for the six pilot communities

The technical assessments for all six sites were completed in September 2007 and the reports were summarized and translated in Fijian vernacular and were distributed to the pilot communities. The information sheets contained a description of the situation relating to the water or coastal problem, an assessment of what may be causing the problem (from a technical experts' point of view) and what actions of recommendation. The information sheets were also used as reference material for the development of the community adaptation action plans.

2.2 Community Adaptation Planning Workshops

The community adaptation plans developed in the community in participatory manner with other stakeholders present like the Mineral Resources Department, OISCA (mangrove planting NGO), NIWA (New Zealand Water Authority), USP and the Provincial Council representatives.

The adaptation plans for Druadrua, Korotasere and Buretu have been reviewed with the community and followed up with the management team as work in these sites progressed. This is also planned for the other 3 sites when more of their adaptation actions have been implemented.

2.3 Implementation of Community Adaptation Plans in all 6 sites2.3.1 Water Scarcity Sites

2.3.1.1 Votua

The implementation of the adaptation plans for Votua was completed in May of 2008 which was a major upgrade to the community water system. Activities involved the;

As a result of this, the village of Votua has an improved water supply system and improved capacity to deal with water supply issues. Monitoring of the water supply has also been conducted with the use of the H₂S kits.

A monitoring and evaluation workshop for the community is planned for October 2008.

2.3.1.2 Druadrua

As a result of insufficient water yield in bore holes that were drilled at Druadrua, other options for water supply was sorted by further technical investigation and community consultation by the management team and a local engineer. This resulted in a decision to focus on water storage by upgrade their current dam system and replace damaged pipes to both Salevukoso and Delaivadra villages instead. They have now expanded the current reservoir and laid new pipes from the dam to central tanks in between the two villages for water collection and distribution.

Rainwater harvesting is also planned to be a supplementary source of water supply to the village in the rainy season.

2.3.1.3 Bavu

A pump was installed to supply water from a borehole. This has provided the main source of drinking and cooking water for the village. Plans to implement a rainwater harvesting system are also in the pipeline to supplement this supply of water. This is also being coordinated by the local engineer (Vili Jeke) who assisted in the implementation of the water system in Votua and Druadrua.

2.3.2 Coastal Erosion Sites

2.3.2.1 Buretu

Work at Buretu begun in February with the filling in of eroded patches with soil and fenced with coconut logs. The coconut logs were then re-enforced with pine posts. Vetiver grass was then planted on top of the filled-in portions all along the river bank and a nursery for coastal plants is planned to help reinforce the vetiver grass. A signboard was also erected to remind speeding boats to reduce their speed when approaching the village and a Monitoring and Evaluation workshop was carried out to allow the community to begin to make their own assessments of the adaptive measures being implemented.

2.3.2.2 Korotasere

The villagers of Korotasere have emphasized their adaptation action on continually planting mangroves to protect their river bank. The first set of planting was facilitated by the OISCA organization who also helped set up a mangrove nursery for the village. The villagers then replanted after a small flood washed away some of the mangroves. They are now planning to plant more mangrove plants with particular emphasis on the native plants from across their river. This has been a useful strategy to allow the mangrove plants establish their roots and take effect on holding the river bank.

Logging which was a recent activity in the area and there was concern that this could affect the stability of the river bank in Korotasere. This led to an awareness workshop held in Korotasere, facilitated by the Forestry Department to give advice on sustainable logging, empower the villagers to monitor logging according to the logging decree. Information on restocking and conservation was also shared to them.

An adaptation action to remove a tree that had fallen into the river was also completed to create a free flow of water in the river and reduce any pressure of water being diverted to the village bank by the fallen tree.

2.3.2.3 Navukailagi

OISCA also facilitated the planting of mangrove and the development of a nursery at Navukailagi village. Vetiver grass was also planted and further implementation measures for Navukailagi have also been discussed in detail with the local river engineer. Since it is the furthest site planning is done in such a way where a lot of activities can be carried out together in one visit and this is proposed for November 2008.

In the mean time there have also been ongoing adaptive management initiatives by FLMMA at Navukailagi in good governance of resource management. This involved working with the community on a yearly calendar of activities that will all action plans e.g. coastal protection are implemented efficiently.

2.3.3 Monitoring and Evaluation

The general monitoring framework for the project was developed and to date, the baseline survey on community climate change awareness in 5 sites have been completed. A series of participatory workshops is currently being implemented for each site to assist the community to develop and implement their own monitoring and evaluation plan. This has been done for Buretu and planned for the rest of the sites in the month of October and November.

3.0 LESSONS LEARNED

3.1 Differing expectations on types of adaptation activities to be implemented

With coastal protection sites, the types of adaptation activities being proposed and promoted to the communities through this project were mainly soft measures with minimal environmental and financial risks. These may not have met the expectations of certain communities and stakeholders who had more capital intensive works in mind. It was therefore important to communicate the justification of the soft measures approach to the relevant parties with issues of sustainability and feasibility in mind. We also had case studies from Netherlands and Japan where a hard measure approach had created problems and softer approaches were now being used. Further, the strategy to make the adaptation plan an evolving one and adaptable to review outcomes was important as it continues to ensure that other ideas for coastal protection are not necessarily written off but may be tried given should the soft win-win options not work. In appropriate communities the issue of retreat has also been discussed.

3.2 Importance of accessing and collaborating with external resources and organizations for the effective adaptation of pilot communities

The development of adaptation strategies in communities focusing on water and coastal protection understandably has implications on the various socioenvironmental sectors of the community. While the resources available to address the adaptation plan through this project is limited and specific to water and coastal protection, other activities may be required further to ensure that the CCA project activities in each site have long term and sustained impacts in the pilot communities. As such, it is important to engage other external stakeholders in the implementation of the adaptation plan. For example assistance from relevant government departments in the management of the watershed areas to address the root causes of coastal erosion and water scarcity. This also allows communities to take a more holistic approach to climate change adaptation. Awareness on sustainable logging, good land use practices and watershed protection also seem to be useful precautionary approaches to take toward climate change issues. Experiences of other organizations on what has worked are available and assistance with some of the implementation activities can also be sought from them.

3.3 The importance of emphasizing soft measures which are more general and sustainable rather than hard measures which have a greater risk and are site specific.

This came about with the discussion of groynes as an adaptation option for the coastal erosion sites. Although this was a suggestion made by Buretu for their coastal adaptation measure, this was not recommended after much research, discussion and debate with technical experts and management. Instead implementation of a nursery to supply suitable coastal trees and plants for coastal erosion sites is being considered instead.

3.4 Addressing water supply issues is easier

Water supply issues tend to be easier to address as the goal. All three water sites have shown improvement of current water supply sources are the immediate needs to address in order to improve the water supply in the village. Technologies for water supply improvements are also clear and better understood by both the local technical expertise and the community.

4.0 ISSUES OF CONCERN

4.1 Channels of communication between project staff and sites need to be well established

This project has ensured the involvement of the various Provincial Councils since it began. In most sites a provincial office representative has accompanied the project staff to the field work and assisted in the implementation of activities. The provincial office staff often play a key community liaison role and the implementation of adaptation activities is often carried out through them. Costing details have to first be determined and approved between the project management, provincial office representative and community leaders before specific adaptation activities occur.

4.2 Regular follow up of Implementation Activities

The implantation of the adaptation activities need to be followed up on a regular basis and with the simultaneous implementations of plans for all six sites, management staff are confined to a tighter schedule to be effective. Trusted provincial council reps or key liaison people need to be identified to follow up on the minor details of each site because they are based close to the sites and liaise with the community on a more regular basis.

4.2 Retreat Options

Erosion is a natural process and although it may be slowed down, it is difficult to stop. Communities need to include possible retreat measures in their planning. It is likely that soft options may just be "buying them time".

4.3 Previous experience in "Soft " options

There is an absence of experience in the Pacific Islands on some of the "soft" options being trialed such as the vetiver grass planting. However the only way to find this out is to try them. The use of willow trees specifically for coastal protection has also been an option less known in Fiji therefore initiatives to use them as part of this project will be taken to improve our knowledge on their usefulness.

5.0 BUDGET AND EXPENDITURE NARRATIVE

The main project expenditure for this particular period (September 2007 – September 2008) were associated with local land/air travel, research, per-diem, purchasing of material and equipments for research, plumbing and maintenance, repair and maintenance of equipments, MSc student living allowances, and community climate change adaptation workshop training. A financial statement as at 30th September 2008 is attached below for your consideration and information.



Suva, Fiji. Telephone: (679) 3231000 Fax: (679) 3231543

Our Ref: 201127-1561 Your Ref: Climate Change Adaptation in Rural Communities in Fiji Date: 6-Jan-09

Project Financial Summary

Organization:	Pacific Centre for Environment & Sustainable Development (PACE-SD)
Project Title:	Climate Change Adaptation in Rural Communities in Fiji
Commencement Date:	1st June 2006
Reporting Period:	June 2006 to September 2008
Operating Currency:	F\$ (Fijian Dollar)

A Annual Income

Date	Total Income	Transfer In	Total Income
June - December 2006	255,679.27		255,679.27
January - July 2007			
August - December 2007	105 000 00		105 000 00
January - September 2008	125,000.00		125,000.00
Total Income :	380.679.27		380.679.27
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B Total Expenditures/Commitments

Date	Expenditure/ commitment	Transfer Out	Total Expenditures
June - December 2006	11,745.88		11,745.88
January - July 2007	22,304.44	12,500.00	34,804.44
August - December 2007	35,779.23	52,442.53	88,221.76
January - September 2008	68,923.19	30,476.91	99,400.10
Total Expenditures/Commitments :	138,752.74	95,419.44	234,172.18

C Total Funds Available (A - B)

<u>\$ 146,507.09</u>

50

Sanjay Sundarlal Accountant Finance



FINANCE SECTION Suva, Fiji. Telephone: (679) 3231000 Fax: (679) 3231543

Our Ref:201127-1561-XXXX-00Your Ref:Climate Change Adaptation in Rural Communities in FijiDate:8-Jan-08

Climate Change Adaptation in Rural Communities in Fiji Financial Period for the period 1st August 2007 to 31st December 2007

Income		
Balance as at 01-08-07		209,128.95
Total Income		209,128.95
Expenditure		
Students Living Allowance - Leone Limalevu		7,100.00
Travel - Project Site Visits		1,325.00
Per diems		1,380.00
Stationery		314.35
Purchase of Equipments		3,162.00
Freight & Courier Charges		100.00
School Research		2,640.00
Refurbishing		14,827.31
Community Workshops (Gau,Nadroga,Vanualevu)		4,905.07
Miscellaneous		25.50
Total Expenditure	ng 1 – 11 – 11 – 11 – 11 – 11 – 11 – 11	35,779.23
Transfers		
Transfer Out		
Project Coordinators	14,090.64	
(5111-6101-xxxxx-00)		
Project Administrative		
IAS Department	19,175.94	
(5111-6101-xxxxx-00)		
PACE- SD - Department	19,175.95	
(31561-1561-xxxxx-00)		
Total Transfers	•• • • •	52,442.53
Net Surplus/ (Deficit)	\$	120,907.19



Suva, Fiji. Telephone: (679) 3231000 Fax: (679) 3231543

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Hospitality 900.00	Research A	ssistant		9,585.00	
	Hospitality			900.00	

Student Living Allowance		
Limalevu Leone Sevuloni.	12,780.00	
Workshop s	10,956.81	
Total Expenditure		68,923.19
Transfers		
Transfer Out		
Waste Water Project - NIWA		
Water Engineer Bavu & Druadrua (5145-6101-xxxxx-00)	27,622.46	
Water Engineer Bavu & Druadrua (5111-6101-xxxxx-00)	2,854.45	
Total Transfers	· · · · · · · ·	30,476.91
Balance SurpIus/(Deficit) as at 30th September 2008	\$	146,507.09