# PACIFIC ADAPTATION TO CLIMATE CHANGE PROJECT









Report of the Planning Workshop for the Kosrae, FSM Pacific Adaptation to Climate Change Project

July 24-27<sup>th</sup> 2007

# 1. Introduction

One of the major concerns for Kosrae State's development now and into the future is the risk of climate change. The Fourth Assessment Report of the International Panel on Climate Change states that the warming of the climate system is unequivocal, as is now evident from observations of increases in global average air and ocean temperatures, widespread melting of snow and ice, and rising global mean sea level<sup>1</sup>. Resilience and sustainability needs to be systematically built into Kosrae's key economic and climate sensitive sectors in order to withstand current and future changes in climate. The vulnerability of Kosrae and other FSM states is clearly documented in FSM's Initial Communications to the Conference of the Parties of the United Nations Framework Convention on Climate Change (UNFCCC). Other key documents of importance on the issue are the State and National Sustainable Development Strategies and other key regional documents such as the climate and disaster frameworks.

The workshop held at the Kosrae Historic Preservation Centre was an important one as government and non-state actors were presented with latest information on the science of climate change as released by the International Panel on Climate Change (IPCC) in April this year. The workshop also provided an opportunity to further develop detail activities for the Pacific Adaptation to Climate Change Project (PACC). Kosrae is the only FSM state that is part of the PACC project, a climate change adaptation project implemented by the United Nations Development Programme (UNDP) in partnership with the Secretariat of the Pacific Regional Environment Programme (SPREP).

In Kosrae State, the PACC project enjoys high-level political and administrative support as it clearly contributes to the sustainable development strategy of the State and in particular the development focus of the current administration. The Lieutenant Governor again informed the PACC Chief Technical Adviser and the Program Director, KIRMA<sup>2</sup> on their support for the PACC project during a courtesy visit prior to the workshop.

# 2. PACC Project – background

The PACC will implement long-term adaptation measures to increase the resilience of a number of key development sectors in the Pacific islands to the impacts of climate change. This objective will be achieved by focusing on long-term planned adaptation response strategies, policies and implementation measures to bring about this result. The key development sectors this project will focus on are water resources management; food production and food security; coastal zone and associated infrastructure (roads and breakwater). Kosrae would be focusing on coastal zone and its associated infrastructures and would be piloting the PACC project in the Tafunsak Municipality.

The project will be completed in two phases. The PDF-B exercise (Phase I) which is on-going at present will further design and develop and ascertain the components of the Full Sized Project (FSP) in consultation with the participating countries. During Phase I, baseline and additional adaptation activities in the key socio-economic sectors identified will be further elaborated. Using the Logical Framework as a guiding tool for project development, a strategy

<sup>&</sup>lt;sup>1</sup> IPCC. 2007. Fourth Assessment Report (AR4)

<sup>&</sup>lt;sup>2</sup> Mr. Abraham Simpson, Program Director Kosrae Integrated Resource Management Agency (KIRMA)

and structure for implementing key adaptation activities in Kosrae was further developed and finalized.

In Phase II, the FSP will mainly focus on the national implementation of adaptation activities in the key selected economic areas and establish national mechanisms to ensure sustainability of the project. Monitoring and evaluation of the project will also ascertain during this phase whether adaptation investments significantly enhanced sustainable development in case study countries. Regional activities will consist of technical backstopping to enhance national implementation in the form of advice and information, training, regional monitoring, coordination of regional workshops, the facilitation of the sharing of lessons among the PIC participants and project management oversight.

### The Kosrae PACC pilot - background

The infrastructure development plan for Kosrae includes completion of the circumferential road, closing what is a 16-kilometer (km) gap. Funds for the road project are to be provided under the Compact of Free Association with the United States of America. Construction of at least 10.6 km of the road's northern portion was scheduled for 2004. The primary purpose of this development is to complete the road around the island of Kosrae and provide all weather land access to the remote village of Walung (population 230) in the southwest. It is the only community without reliable links to the island's other municipalities. Completion of this link will also allow easier access to the presently undeveloped interior of the island along the western coast, providing scope for agriculture and new settlement in the area.

Construction of the road to join Walung village will benefit the whole island as it will improve access into and out of Tafunsak. Part of the planned route will have to traverse or circumnavigate a large freshwater swamp, which is dominated by a tree locally called *ka* (*Terminalia carolinensis*). The swamp, the largest remaining stand of *T. carolinensis* in the world, is officially designated as an Area of Biological Significance.

The drainage works for the original road design (both built and as-yet-unbuilt sections) were based on a maximum hourly rainfall of 178 millimetres, which supposedly had a return period of 25 years. An analysis of more reliable data indicated that an hourly rainfall with a return period of 25 years is 190 mm. By 2050, however, the hourly rainfall with a 25-year return period will have increased to 254 mm as a consequence of climate change.

The state government of Kosrae accepted a recommendation that the design of the road be modified so the drainage works could accommodate an hourly rainfall of 254 mm and a climate-proofed design was prepared and costed by state employees. The incremental cost of climate proofing the road design and construction for the as-yet-unbuilt section is in the vicinity of \$511,000. While the capital cost of the climate-proofed road would be higher than if the road were constructed to the original design, the accumulated costs, including repairs and maintenance, would be lower after only about 15 years. This is because repair and maintenance costs would be lower for the climate-proofed road. The internal rate of return was found to be 11%. A 3.2-km portion of the road section has already been constructed, including the drainage works. The design for these was also based on an hourly rainfall of 178 mm for a 25-year recurrence interval.

Analyses show that it is more costly to "climate proof" retroactively - US\$776,184 for a 3.2 km section of existing road (US\$243,000 per km) as opposed to US\$511,00 to "climate proof" 6.6 km of new road (US\$77,00 per km). But a cost benefit analysis revealed that the

retroactive *climate proofing* is still a cost effective investment, with an internal rate of return of 13%. Based on the information available, the Government of the State of Kosrae has decided it will not proceed with construction of the northern section of the new road until additional funds are available to complete the *climate proofing*.

The PACC project will facilitate the climate proofing of the construction of the northern section of the new road (RS4). This would also ensure the continued protection of the valued ecosystems, including the Area of Biological Significance. Prior to commencing construction, all the environmental and other approvals required by the state of Kosrae would, of course, have to be in place.



Plate 1 Part of the PACC Pilot Site for Kosrae -a natural Terminalia stand (Source: KIRMA, 2007)

# 3. Meeting Objectives and Format

The planning workshop was an opportunity to bring together key state government departments and non-state actors to discuss the PACC project activities in detail. It was a further elaboration to a proposal that were put together by the PACC Team during the PACC scoping meeting in Phonpei State around August 06. The planning meeting was conducted for two and a half days and used the Logical Framework as the main tool that guided the planning process. Mr. Taito Nakalevu from SPREP facilitated the meeting in close collaboration with the Program Director of KIRMA.

The first day opened with a prayer from the participants as often the practice in most Pacific Island countries and territories and the Program Director for KIRMA, Mr. Simpson opened the meeting with a brief word of welcome.

The PACC CTA Mr. Nakalevu then presented three introductory presentations that were followed by question and answer sessions. The presentations served to provide the information platform that would be of importance as the planning session progressed during the two and a half days. Participants were then requested to closely scrutinise the PACC outcomes and outputs as stipulated in the draft Kosrae Log-frame for comments, deletion or addition. Several minor changes were made to the output wordings but overall the meeting was comfortable with the existing outcome and outputs.

With such a confirmation, the next steps of detailing activities under each sub-output were then carried out. Given that there were three outcomes, participants were divided into three groups based on their skill base and experience. The groups then proposed activities under each sub-outputs of the outcomes they were working on. Results were then presented in the plenary for general discussion and confirmation.



Plate 2 Group discussions in progress

### 2.1 Participants

The participants of the workshop were mainly from Kosrae government departments and nonstate actors. Amongst these were several expatriates who are either working for the Kosrae State or have resided in Kosrae and working as consultants or advisors to government and non-government agencies. A list of workshop participants is annexed in this report.

## 2.2 Meeting Objectives

The workshop had two main components; i) development of a logical framework for the PACC project to detail project outcomes, outputs, and activities and ii) field visit to the PACC pilot site.

The outputs envisaged for the workshop were as follows:

- i) Logical Framework for the PACC project specific to Kosrae developed;
- ii) Specific activities agreed to; and
- iii) Indicative Output/Activity PACC budget for Kosrae developed

## 2.3 Funding Support

UNDP/GEF provided funding for the PACC Planning Meeting in Kosrae. In kind support in terms of venue, office space for the PACC CTA was provided by the Kosrae State.

# 4.0 Outputs of the Workshop

4.1 The PACC Log Frame for Kosrae

The PACC log frame for Kosrae was discussed during the workshop and outputs agreed upon. This is an important milestone as it sets the stage for the development of detail activities. Most of the first day was spent on the deliberation of the outputs and it was decided that output 3 which should be a regional output should be applicable as well to FSM. Given that Kosrae is one of the four states in the FSM, the participants felt that FSM could be treated as a region given the geographical distribution of its islands. Therefore, we have also included output 3 as a Kosrae output thus specific activities were developed.

4.2 PACC specific activities and cost allocation

Also attached as an annex are the specific activities for the PACC project for Kosrae. Most of the PACC funding would be concentrating on the implementation of the PACC pilot and it would be funding enabling activities to allow for the actual construction to take place and also the drainage works that would be carried out on the road-segment (RS4) to be built. The other funding of PACC would also be used for mainstreaming and awareness and education components.

It is also crucial to note that the final confirmation on PACC activities for Kosrae would be finalized once there is an agreement between the Kosrae State and JICA on the RS4 road alignment to follow ridge-top or the base of the mountain.

4.3 Community engagement

Community engagement it was decided would be implemented in two parts. The first part has been undertaken by government in their effort to secure what is termed the 'road easements' or consent from various land owning units before road construction starts. The other community engagement process using the CV&A approach would be undertaken when the RS4 roading construction is in full operation.

4.4 Kosrae State baseline contribution to PACC

Given that PACC would be contributing to the development agenda of the State, the meeting was also briefed by the representatives of Public Works that the PACC baseline co-financing is well intact and would come from several sources. The Japanese International Corporation Agency (JICA) would also be part of the project as well as the US-FSM COMPACT funding. The total Kosrae/FSM contribution to the PACC is in the vicinity of USD6 million.

4.5 Way forward

Kosrae is ready to implement the PACC project and have aligned their COMPACT funds as well as their ODA from JICA with the PACC project. The hope is that the PACC would be approved by the GEF in time for the 2008 financial year for implementation of the RS4 and PACC.

## 5.0 Annex

- i) PACC Log Frame,
- ii) Specific PACC Activities
- iii) Output/Activity budget
- iv) Agenda
- v) Participant List
- vi) Questionnaire to prepare countries for the PACC Formulation Workshop

## ANNEX 1: KOSRAE PACC MATRIX

Result	Indicator	Baseline value	Target And benchmarks		ns of Verification	Assumptions
	e vulnerability and to increas	se adaptive capacity	to the adverse eff	fects of o	climate change in a	key Development Sectors
identified by the particle Project Objective: Enhance the capacity of Kosrae and its communities to adapt to the adverse effects of climate change and extreme events in its coastal development	Reduction to vulnerability to climatefchange and extreme events	Kosrae will undertake a quantitative assessment of its vulnerability. The programme baseline will be the average of individual project	At any time after completion of the initial PACC pro- the average VRA over all complete projects in Kosra least 35% and no than 10%	e ject, value ed e is at	Individual project reports of participatory VRA assessments compiled at country levels	Project proponents are able to identify factors that contribute to their vulnerability to climate change and extreme events and can rank these objectively
sector. Outcome 1: Enhanced adaptive capacity of key econom sectors such as the coas infrastructure sector in Kosrae.	tal climate change and	values Kosrae will undertake a quantitative assessment of its vulnerability. The programme baseline will be the average of individual project values	By the completio the project, the av VRA value over completed projec Kosrae is at least and not less than	verage the ct in 35%	Individual project reports VRA Assessments	Project proponents are able to identify factors that contribute to their vulnerability to climate change and extreme events and can rank these objectively
Output 1.1 Climate proofed circumferential road segment adaptation proj- in Tafunsak/Walung, Kosrae	Reduction to vulnerability of coastal infrastructure sector in Kosrae	Kosrae will undertake a quantitative assessment of its vulnerability.	At any time after completion of pro- the average VRA over completed p is at least 35% ar less than 10%	oject, value project	Individual project reports VRA Assessments	Project proponents are able to identify factors that contribute to their vulnerability to climate change and extreme events and can rank these objectively

Result	Indicator	Baseline value	Target And benchmarks		ns of Verification	Assumptions
Outcome 2: Enhanced national Policies and Programmes ensuring awareness, integration and adaptation to climate change priorities as they relate to economic sectors	Number of policies and programmes adopted or adapted on the basis of PACC experiences	National Policies and programmes rarely account for adaptation strategies	By end of progra at least 1 national policies or progra have been adopted take account of experiences gene through the PAC	al cammes ed to erated	Project Progress reports supported by surveys of policy makers in participating countries	Policy makers are effectively engaged in the PACC process and PACC projects generate policy relevant experiences
Output 2.1 Policy/Decision makers engaged in pilot demonstration process	Number of policy makers engaged in PACC	No process initiated	Within 12 month the start of the P. implementation, least one senior p maker in each of identified sectors PACC implement is engaged in the PACC process	ns of ACC at policy f the s for ntation	Project progress reports	Selection of Policy maker to be engaged maximizes potential for lessons to be integrated into national policies and programmes
Output 2.2 Personnel with capacity to design and support implementation of projects taking into account adaptation best practices and lessons	Number of trained personnel	No trained personnel	Within 12 month the start of the P. implementation, least one technic development sec official in each o identified sectors PACC implement is engaged in the PACC process	ACC, at cal ctor of the s for ntation	Project progress reports	Selection of technical person to be engaged maximizes potential for lessons to be integrated into national policies and programmes

Result	Indicator	Baseline value	And	ans of Verification And frequency	Assumptions
Outcome 3: Developed Regional Partnerships and cooperation with participating countries in the promotion of innovative and adaptation to climate change through sharing experiences and lessons learnt.	1	No regional sharing mechanism in existence after CBDAMPIC	By end of programme there is at least one example in each country of a strategy or practice that was introduced on the basis of experience gained in other countries	Reports of Executing Agency Survey of NCs and PACC project teams	Projects are under implementation allowing lessons to be transferred to other countries before the end of the programme
Output 3.1 Project Website Established at KIRMA.	Existence of Website Value of Website	No Websites	Within 1 month of the start of implementation, a public programme web-site has been established	Project reports	Website is created
Output 3.2 Best Practices and lessons exchanged among FSM States	Number of cases included in the ALM and CV&A	No case of best practice recorded	At time of programme completion, at least 8 examples of best practice generated through the PACC are accessible through the website	Project reports	Website becomes operational and effective in time to document best practices from the PACC
Output 3.3 Enhanced awareness & education campaigns to address climate change adaptation issues	No. of information materials (pamphlets, video clips, etc) on cc- related water management programs produced and disseminated by end of project	Quantitative survey of material available at start of project	By completion of PACC, implementation in each country material available referable to project	Education & communication (IEC) materials available in relevant gov't agencies, crop agencies, NGO, CSOs etc.	Relevant data & information on extreme climatic events are available

## KOSRAE PACC SPECIFIC ACTIVITIES

	Activities	Responsibility	Budget	Assumption
1.1.1	Prepare an Environment Impact Assessment/Statement taking climate change into consideration	C&E/DTI	\$30,000	Unfavourable EIA report
1.1.2		C&E/DTI	\$70,000	Required technical data and professionals available
1.1.3	Prepare Project Engineering Technical Specifications for construction	C&E/DTI	\$30,000	Reference materials and codes are available
1.1.4	Conduct/acquisition/issuance of land easements	Land Management and DREA	\$5,000	All design/construction documents are available
1.1.5 • • •	Construction Management Prepare bid documents for construction Advertise bids Accepting/receiving/opening bidders bids Evaluation of bids and selection of apparent lowest bidder Award bid for construction Construction contract signing Issue Notice to Proceed	C&E/DTI/Kosrae IPIC/Governor/ Contracting officer/	\$100,000	Abstracts of bids available for evaluation
1.1.6	Construction to completion	C&E/DTI/Contractor	\$2,500,000	Quality contractor available
2.1.1	Source relevant personnel with necessary knowledge and skills to develop climate change policy	KIRMA	\$10,000	Personnel with necessary skills and knowledge are not sourced from within Kosrae State -Medium
2.1.2	Draft climate change police and provide to relevant stakeholders for comment	KIRMA	\$25,000	Policy drafted and accepted by relevant stakeholders - Low

2.1.3	Policy endorsed by policy review committee	PRC / KIRMA	N/A	Policy accepted and endorsed by review committee – Low
2.1.4	Policy on climate change implemented into whole of State Development Plan	IPIC / KIRMA	N/A	Implementation of policy into whole of state plan may face objections if restrictions placed on projects – Low
2.2.1	Source relevant personnel with capacity to design project with consideration for climate change issues	KIRMA	\$10,000	Necessary personnel with skills and knowledge are not sourced from within Kosrae State –Medium
2.2.2	Train persons in design and support process for project with consideration for climate change	KIRMA / (consultant)	\$40,000	Persons with experienced sourced regionally – Low
2.2.3	Establish Project Management Unit to overview project (5 years)	KIRMA	\$105,000	Persons with the capability and experience required – Medium
3.1.1	Procure hardware and software	FSM EPAs & KIRMA, NGOs, CBOs.	\$10,000	Availability of technical equipment and assistance - Medium
3.1.2	Consultant / webmaster	FSM EPAs & KIRMA NGOs, CBOs.	\$30,000	Specialized assistance not available at the national level - Medium
3.1.3	Provide training in web page maintenance	FSM EPAs & KIRMA NGOs, CBOs.	\$10,000	Limited knowledge and skills - Medium
3.2.1	Engage Gov't Orgs, CBOs/NGOs in the SLM and CV&A to improve knowledge, information sharing etc	FSM EPAs & KIRMA NGOs, CBOs.	\$25,000	Lack of effective participation from all stakeholders - Low
3.2.2	Document best practices and lessons	FSM EPAs & KIRMA NGOs, CBOs.	\$45,000	
3.2.3	Establish learning exchange initiative amongst FSM states.	FSM EPAs & KIRMA NGOs, CBOs.	\$35,000	
3.3.1	Establish an Awareness Task Force	FSM EPAs & KIRMA NGOs, CBOs.	\$1,000	Lack of effective participation from all stakeholders - Low
3.3.2	Conduct awareness campaign via ongoing awareness raising activities	FSM EPAs & KIRMA, NGOs, CBOs.	\$45,000	
	OVERALL TOTAL		\$3,126,000.00	

KOSRAE PACC - OUTPUT/ACT OUTPUT/ACTIVITY	TOTAL (USD)	PACC	STATE and
OUTPUT 1.1	TOTAL (USD)	FACC	OTHER DONORS
Activity 1.1.1 Prepare an Environment Impact	30,000.00		30,000.00
Activity 1.1.1 Prepare an Environment impact Assessment/Statement taking climate change into consideration	30,000.00		30,000.00
Assessment/Statement taking clinicle change into consideration Activity 1.1.2 Perform final engineering designs and plans	70,000.00	70,000.00	
	70,000.00	70,000.00	
to conform to the requirements of climate change			
(climate proofing design)			
Activity 1.1.3 Prepare Project Engineering Technical	20,000,00	20 000 00	
Specifications for construction	30,000.00	30,000.00	
Activity 1.1.4 Conduct/acquisition/issuance of land easements	5,000.00		5,000.00
Activity 1.1.5 Construction Management	100,000.00		100,000.00
a. Prepare bid documents for construction			
b. Advertise bids			
c. Accepting/receiving/opening bidders bids			
d. Evaluation of bids and selection of apparent lowest bidder			
e. Award bid for construction			
f. Construction contract signing			
g. Issue Notice to Proceed			
Activity 1.1.6 Construction to completion	2,500,000.00	509,000.00	1,991,000.00
SUB TOTAL	2,735,000.00	609,000.00	· · · · ·
OUTPUT 2.1	2,100,000.00	000,000.00	2,100,000.00
Activity 2.1.1 Source relevant personnel with necessary			
knowledge and skills to develop climate change policy	10,000.00	10,000.00	
Activity 2.1.2 Draft climate change police and provide	25,000.00	25,000.00	
to relevant stakeholders for comment	20,000.00	20,000.00	
Activity 2.1.3 Policy endorsed by policy review committee			
Activity 2.1.4 Policy on climate change implemented into			
whole of State Development Plan			
SUB TOTAL	35,000.00	35,000.00	0.00
OUTPUT 2.2	33,000.00	33,000.00	0.00
Activity 2.2.1Source relevant personnel with capacity to	10,000.00	10,000.00	
design project with consideration for climate change issues	10,000.00	10,000.00	
Activity 2.2.2 Train persons in design and support process	40,000.00	40,000.00	
for project with consideration for climate change	40,000.00	40,000.00	
Activity 2.2.3 Establish Project Management Unit	105,000.00	105,000.00	
	105,000.00	105,000.00	
to overview project	455,000,00	455 000 00	0.00
SUB TOTAL	155,000.00	155,000.00	0.00
OUTPUT 3.1	10,000,00	40.000.00	
Activity 3.1.1 Procure hardware and software	10,000.00	10,000.00	
Activity 3.1.2 Recruit Consultant to develop webmaster/webpage		30,000.00	
Activity 3.1.3 Provide training in web page maintenance	10,000.00	10,000.00	
SUB TOTAL	50,000.00	50,000.00	0.00
OUTPUT 3.2	05 000 00	05 000 00	
Activity 3.2.1 Engage Gov't Orgs, CBOs/NGOs in	25,000.00	25,000.00	
the SLM and CV&A process	4	1=	
Activity 3.2.2 Document best practices and lessons	45,000.00	45,000.00	
Activity 3.2.3 Establish learning exchange initiative	35,000.00	35,000.00	
amongst participating countries and states.			
SUB TOTAL	105,000.00	105,000.00	0.00

#### KOSBAE DACC

OUTPUT 3.3			
Activity 3.3.1 Establish an Awareness Task Force	1,000.00	1,000.00	
Activity 3.3.2 Conduct national awareness campaign	45,000.00	45,000.00	
via ongoing awareness raising activities			
SUB TOTAL	46,000.00	46,000.00	0.00
OVERALL TOTAL	\$3,126,000.00	\$1,000,000.00	\$2,126,000.00

### NOTES:

The total of USD\$3,126,000.00 as portrayed in this budget is largely the cost of climate proofing/mainstreaming the Kosrae RS4 project whereby the PACC project would contribute USD1 million. The actual development cost of building the road is around USD6 million which government is securing as baseline co-financing from other sources.

## ANNEX 2

## WORKSHOP AGENDA

DATES/TIMES	TOPIC	Resource Person
Wednesday 25	Day 1	
July 09.00 – 10.00	<ul> <li>Workshop opening</li> <li>Prayer</li> <li>Opening Statement by Ministry of Local Government, Government of the Republic of Fiji</li> </ul>	Mr. Abraham Simpson
	<ul> <li>Opening Statement by SPREP Director</li> <li>The Purpose of the workshop</li> <li>Overview, Objectives and Outputs expected from the workshop</li> <li>Introduction to the agenda</li> </ul>	Mr. Taito Nakalevu
10.00- 10.30	Morning Tea [30 minutes]	
10.30-11.30	PACC Planning	
11.30-12.30	PACC Planning	
12.30 - 13.30	Lunch	Mr Taito Nakalevu
13.30-15.00	PACC Planning	
	END OF DAY 1	
Thursday 26 July	Day 2	
09.00 - 10.30	PACC Planning	
10.30-11.00	Morning Tea	]
11-30-12.00	Cont'	
12.00-13.00	Lunch	Mr Taito Nakalevu
13.00-14.30	Cont'	
	END OF DAY 2	
Friday 27 July	_Day 3	_
09.00 -10.00	Field Visit to the PACC Pilot Site	
10.30-12.00	Field Visit	Mr. Abraham Simpson
12.00-13.00		1
	Field Visit	]
	END OF DAY 3	

## **ANNEX 3**

## Planning Workshop for the Pacific Adaptation to Climate Change Project (PACC)

### Kosrae State 24-27 July 2007

### PARTICIPANT LIST

1. Moses. W. Palik KIRMA

Email: <u>mpalik@yahoo.com</u> 3. Carlos Jose Cinanchini Consultant NCSA

Email: <u>cjcianchim@yahoo.com</u> 5. Erick.E. Waguk Forestry/Wildlife

Email: <u>kosraeforestry@mail.fm</u> 7. Berlin Sigrah Historic Preservation

### Email: <u>kshapo@mail.fm</u>

9. Bernabe P. Abat Department of Construction & Engineering

Email: dce@mail.fm 11. Wayne Law KCSO/KIRMA

Email: <u>wlaw@nybg.org</u> Robert H. Jackson KIRMA

Email: Rhjackson82@hotmail.com

Abraham M. Bahillo DT&I

Email: <u>Bahillo\_em@yahoo.com</u> Lupalik Wesley Land Management

Email: <u>Gajackson12@gmail.com</u> Likiak Albert 2. Wigner Joe Survey and Mapping

Email: <u>dulu@com.fsm</u>

4. Donna Wrembeck Advisor MCT

Email: <u>Timtam88b@hotmail.com</u> 6. Glasstine Cornelius Agriculture

Email: <u>dalu@mail.fm</u> 8. Standon Andrew Historic Preservation

Email: <u>kshapo@mail.fm</u> 10. Johnson Taulung Mayor - Tafunsak Municipality

Email: 12. Blair Charley KIRMA

Email: <u>charleyblair@yahoo.com</u> Tiser H. Reynold Admin and Finance

Email: <u>Treynold kos@mai.fm</u>

Likiak Wesley Planning Office

Email: <u>divplan@mail.fm</u> Gerson Jackson Consultant

Email: Alokoa Talley

## Kosrae SAWR Airport

Email: <a href="mailto:padmal@forumsec.org.fj">padmal@forumsec.org.fj</a>

Nena Lonno Historic Preservation

Email: Taito Nakalevu SPREP Email: <u>taiton@sprep.org</u> / <u>taitonakalevu@yahoo.com</u> Malem Municipal Govt. Tel: 3704501/370-3018

Email: Simpson Abraham KIRMA

E-mail: <u>simpson@mail.fm</u>