



**DEPARTMENT OF ENVIRONMENT,  
CLIMATE CHANGE AND EMERGENCY MANAGEMENT**

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**Expression of Interest**

**Assignment Information:**

<b>Assignment Title:</b>	Coastal Engineering Consultant to prepare technical and detailed construction design, and costing of coastal protection for Mosral and Paal in Kosrae State based on a conceptual designs provided by the FSM Department of Environment, Climate Change and Emergency Management (DECEM)
<b>Project:</b>	Adaptation Fund Project-Enhancing the climate change resilience of vulnerable island communities in the Federated States of Micronesia
<b>Post Level:</b>	Specialist
<b>Contract Type:</b>	Engineering Firm
<b>Duty Station:</b>	Kosrae State, FSM
<b>Expected Place of Travel:</b>	Kosrae State, FSM
<b>Contract Duration:</b>	12 Months

**Background:**

The Government of the Federated States of Micronesia (FSM) has received a grant from the Adaptation Fund (AF) to implement the “Enhancing the Climate Change Resilience of Vulnerable Island Communities in the FSM” project.

The Adaptation Fund Project aims to reduce the climate change vulnerability of the selected Federated States of Micronesia communities of Woleai, Eauripik, Satowan, Lekinioch, Kapingamarangi, Nukuoro, Utwe, and Malem and to enhance their climate change resilience.

It aims to achieve this through:

- Preparation of the necessary institutional and regulatory frameworks, policies, guidance, and tools to help deliver a climate resilient FSM.
- Strengthening water and livelihood security measures to help 6 outer atoll islands adapt to impacts of climate change related to water, health, and sanitation.

- Providing communities with climate resilient infrastructure to help relocate from high-risk coastal inundation sites.
- Capturing and sharing the local knowledge produced on climate change adaptation and accelerate the understanding about the kinds of interventions that work in island environments in FSM.

The project strategy is to provide all four (4) State Governments in FSM with development planning tools and institutional frameworks to help coastal communities prepare and adapt for higher sea levels and adverse and frequent changes in extreme weather and climate events. The project strategy is to also provide communities with the resources and technical support needed to adopt and manage concrete climate change adaptation initiatives and actions.

The project will ensure that the concerns and experiences of stakeholder women and men are an integral dimension of the design, mainstreaming, implementation, monitoring, and evaluation of project resulting policies and programs, with the purpose of ultimately achieving gender equality in information sharing.

One major activity of the project is to increased resilience of coastal communities and environment in Kosrae State to adapt to hazards and risks induced by climate change through upgrading transitional coastal protection at Mosral and Paal for immediate protection.

The Project is managed by the FSM Department of Environment, Climate Change and Emergency Management's (DECCEM) AF Project Management Unit (PMU) with the Secretariat of the Pacific Regional Environment Programme (SPREP) as the implementing entity.

### **Description of Responsibilities:**

The consultant is expected to support the achievement of the following objectives:

- To prepare technical and detailed construction design, and costing of coastal revetment for Mosral and Paal in Malem, Kosrae State based on the agreed conceptual designs and ensure consideration and integration of the mitigation measures contained in the approved Environmental and Social Safeguards Management Plan (ESMP) of the project to mitigate against potential negative impacts before, during and after construction. The conceptual design can be obtained by request to email: [richard.moufa@gov.fm](mailto:richard.moufa@gov.fm)
- Provide technical advice for the tender documentation related to the procurement of the construction company.
- Provide technical support for the procurement process of construction company.
- Provide support in preparation of contracts related to construction company.
- Provide supervision of construction works in collaboration with Kosrae State to ensure construction follows the detailed designs and provide progress reports
- Work closely with AF Project Management Unit and the State of Kosrae to monitor environmental impacts before, during and after construction to ensure construction is in compliance with the project's Environment and Social Safeguards Management Plan (ESMP)

- Assist with addressing issues that may occur during construction.

## **Scope of Services:**

### **1. Detailed designs of coastal work**

- Review the approved conceptual designs for coastal works in consultation with AF Project Management Unit and Kosrae State and develop agreed design parameters
- Develop the detailed construction design of coastal works including but not limited to detailed construction drawings and construction specification for the two main sites ( Mosral and Paal) in the community of Malem, Kosrae State.
- Investigate and identify in consultation with the AF PMU and Kosrae State potential sources to supply the materials from, and transport options.
- Explore and identify local capacities to undertake some aspect of the construction works.
- Develop the bill of quantities based on agreed design.

### **1. Procurement of Construction Company**

- Provide technical advice during the preparation of bidding documents
- Provide technical advice in the preparation of technical evaluation criteria for the bidding documents
- Support the procurement process and provide technical advice on review of subsequent bidding documents
- Provide technical support to the AF PMU to engage with winning company and ensure they are fully aware of the project requirements and environment constraints of that are likely to affect construction

### **2. Quality Control and Monitoring**

- Provide ongoing monitoring and quality control/ review of progress as the winning company implements capital works
- Assist With the AF PMU and State of Kosrae assist to ensure all environmental considerations and mitigation measures are in place as stated in the project ESMP
- At completion of works review infrastructure and submit report outlining any short falls in expectations
- Develop an “infrastructure Owner’s Manual” outlining maintenance schedules, monitoring requirements, improvements and considerations for future work
- Assist PMU and State of Kosrae with problem solving as necessary during implementation

### **3. Other Task- as the situation may require**

- Support addressing issues that may arise during construction and manage these changes as relevant in consultation with the AF PMU and Kosrae State.
- Support capacity building efforts potentially through a range of modalities; government counterpart relationships, participation at workshops, community meetings and on-site monitoring.

## **Required Qualifications:**

The scope of service requires the following experts:

1. Coastal Engineer/Team Leader:
  - a. Minimum of Bachelor's degree in coastal engineering or related field and registered Chartered Professional Engineer with recognized professional institution;
  - b. 10 years of professional experience in design and construction of coastal protection structure preferably in Pacific small island countries such as atoll and raised coral nations; expert level experience with hydrodynamic modelling, construction, planning and design with demonstrated ability to engage and work in Pacific islands environments, Governments and local communities.
2. Land Surveyor: a minimum of Bachelor degree in surveying, at least 7 years of professional work experience in land surveying preferably in Pacific Island countries and a registered professional surveyor with recognized professional institution.
3. Quantity Surveyor: a minimum of Bachelor's degree in quantity surveying, construction or related field with a minimum of five years of professional work experience or another relevant qualification with a minimum of 7 years work experience; quantity survey must be a registered chartered quantity surveyor with a recognized professional institution.

**Duration of Assignment:**

1. 12 months from contract effectiveness

Expressions of Interest should be submitted electronically to Mr. Richard Moufa at the email address: [Richard.moufa@gov.fm](mailto:Richard.moufa@gov.fm) no later than **December 08, 2023**, local (Pohnpei) time.