

# Terms of Reference

## Regional Project Management Unit

### Arafura and Timor Seas Ecosystem Action Phase 2 (ATSEA 2)

#### GENERAL INFORMATION

**Reference:** VA-2020-05  
**Title:** International Consultant for Climate Change Assessment  
**Category:** Senior Specialist  
**Project Name:** ATSEA 2  
**Reports to:** Regional Project Manager  
**Duty Station:** Home Based  
**Expected Places of Travel (if applicable):** Travel to regional office in Bali and ATS countries  
**Duration of Assignment:** 60 working days within July 2020 – January 2021

#### I. BACKGROUND

The Arafura and Timor Seas (ATS) is part of the North Australian Shelf large marine ecosystem (LME), which is a tropical sea lying between the Pacific and Indian Oceans and extending from the Timor Sea to the Torres Strait and including the Arafura Sea and Gulf of Carpentaria. The region is adjacent to the Coral Triangle<sup>1</sup>, which hosts the world's highest marine biodiversity and contains some of the most pristine and highly threatened coastal and marine ecosystems. At the regional scale, the ecosystems of the ATS play an important economic and ecological role in the littoral nations bordering the Arafura and Timor Sea: Indonesia, Timor-Leste, Australia, and Papua New Guinea.

The marine environment in the ATS region is in serious decline, primarily as a result of overharvesting and other direct and indirect impacts of anthropogenic stresses and global climatic changes. Fisheries in the ATS region represent an extremely complex productive, socioeconomic sector, with multiple actors, target species sought, and technology used. The main characteristics of depletion of shared ATS transboundary stocks by fishery were assessed as part of the ATS transboundary diagnostic analysis (TDA) in 2012. In addition to climate change, unsustainable harvesting, illegal unreported unregulated (IUU) fishing, and bycatch are having significant impacts on the populations of key marine species in the ATS region, particularly globally threatened coastal marine megafauna including migratory, rare, and threatened species of turtles, dugongs, seabirds/shorebirds, sea snakes, cetaceans, sharks and rays. Lastly, potential sources of marine pollution in the ATS region include marine debris, marine based pollution from oil and gas activities, as well as waste from fishing and shipping vessels.

ATSEA 2 is the 2<sup>nd</sup> phase of the GEF-financed, UNDP-supported ATSEA program, building upon the foundational results realized in the first phase of the ATSEA program, covering Indonesia, Timor Leste, Papua New Guinea, and Australia. This 5-year project will support implementation of the following governance and environmental objectives of the ATS regional Strategic Action Program: (i) Strengthening of ATS regional governance; (ii) Recovering and sustaining fisheries; (iii) Restoring degraded habitats for sustainable provision of ecosystem services; (iv) Reducing land-based and marine sources of pollution; (v) Protecting key marine species; and (vi) Adaptation to the impacts of climate change.

One of the ATSEA 2 project objective is to improve understanding of climate change impacts on marine and coastal ecosystems, especially the impacts on those fisheries that are paramount to sustaining socio-economic development in the ATS region. As climate change impacts are expected to increase, affecting more and more people and disrupting infrastructure and ecosystems, it is imperative to educate national and local government planners and other decision makers, as well as the general public, about the need to implement resilient strategies and to allocate sufficient resources for climate change adaptation and mitigation measures.

<sup>1</sup> The Coral Triangle is a marine area located in the western Pacific Ocean, and including the waters of Indonesia, Malaysia, the Philippines, Papua New Guinea, Timor-Leste and Solomon Islands.

## II. SCOPE OF WORK, DUTIES AND RESPONSIBILITIES, AND DELIVERABLES

### **Scope of work**

The Consultant for ATSEA Climate Change Specialist will be responsible to analyse available information, in particular climate models analysing the impacts of CC on Large Marine Ecosystems, run applicable models to predict the impacts of CC in the Arafura Timor Seas (ATS) fisheries and ecosystem services, summarize key issues facing national (the littoral countries of the ATS), local users and policy makers, and then prepare a work plan for providing decision-making tools for managing ATS marine and coastal ecosystems in the context of climate change disruptions. The Consultant is expected to evaluate potential climate change impacts on marine biodiversity, fisheries and other ecosystem services using available computer modelling techniques (Global Climate Models) or appropriate modelling software.

### **Duties and responsibilities**

1. Undertake a global review of climate models and studies focusing on LMEs, followed by a regional review of current climate change studies and strategies within the ATS region by involving relevant regional and national climate change professionals.
2. Run the appropriate climate model(s) using predicted climate variables that impact on LMEs over a time frame, spanning 50 years.
3. Complete a collaborative assessment of relevant climate change socio-economic/ cumulative impacts on marine and coastal ecosystems and resources in the ATS region, and provide recommendations to address the potential impacts.
4. Prepare a draft decision-making guidance toolkit, e.g., showing particular vulnerable areas and issues that could potentially impact the livelihoods of coastal communities and the ecosystem goods and services they depend on.
5. Prepare presentation materials that will be presented by the consultant and/or other ATSEA2 team member in various forums.

### **Expected outputs and deliverables**

The specific outputs/deliverables expected from the Climate Change Specialist are the following:

Deliverables	Estimated no. of working days	Completion deadline
<p>1<sup>st</sup> Payment will be made upon the submission and approval of following outputs:</p> <ul style="list-style-type: none"> <li>• Report that shows a global review of climate models and studies focusing on LMEs, and followed by regional analysis of current climate change studies and strategies within the ATS region <b>through a workshop</b> engaging relevant national climate change professionals and experts.</li> </ul>	20 wds	30 July 2020
<p>2<sup>nd</sup> Payment will be made upon the submission and approval of following outputs:</p> <ul style="list-style-type: none"> <li>• Report on the appropriate climate model(s) using predicted climate variables that impact on LMEs over a time frame, spanning 50 years</li> <li>• Report on a collaborative assessment of relevant climate change impacts on fisheries and coastal/marine ecosystems and resources in the ATS region, including the recommendations to address the potential CC impacts</li> </ul>	20 wds	30 October 2020
<p>3<sup>rd</sup> Payment will be made upon the submission and approval of following outputs:</p> <ul style="list-style-type: none"> <li>• A draft decision-making guidance toolkit, e.g., showing particular vulnerable areas and issues that could potentially impact the livelihoods of coastal communities and the ecosystem goods and services they are reliant on</li> <li>• Presentation materials that will be presented by the consultant and/or other ATSEA2 team member in various forums</li> <li>• Final report</li> </ul>	20 wds	30 January 2021

### III. WORKING ARRANGEMENTS

#### **Institutional arrangement**

The Consultant will be reporting to Regional Project Manager in seeking approval and acceptance of the above-mentioned outputs.

#### **Duration of the work**

Expected duration of work is from June 2020 – January 2021 for 60 working days. The IC is expected to support the deliverables on a part-time basis.

#### **Duty station**

The Consultant will be home based with regular coordination with Regional Project Manager, and National Coordination Units (NCUs) in Jakarta, Dili, and Port Moresby.

#### **Travel plan**

The Consultant is requested to travel to Bali, Jakarta, Dili, and Port Moresby to do the tasks, especially for consultation with regional and national ATS stakeholders. Travel and other coordination costs could either be part of the consultant's contract package or separately borne by the RPMU

### IV. REQUIREMENTS FOR EXPERIENCE AND QUALIFICATIONS

#### **Academic qualifications**

- Advanced university degree (Master's degree or equivalent) in climate change science, coastal/marine science and management, environmental science, or other related fields.

#### **Minimum experience requirement**

- At least 10 years in relevant experience in organizing and collaborative engagement to develop climate change plans including review of current rules, stakeholder consultations, collaborative planning, identification of impacts and recommendations/measures to address such impacts;
- Knowledge and experience in the following areas: blue economy; climate resilience, low carbon, and environmentally sustainable climate friendly processes and actions;
- Knowledge on development planning processes; integration of environment and climate priorities and the role these play in underwriting long term development effectiveness and achievement of the SDGs;
- Knowledge on political economy and governance of climate change/environment;
- Knowledge and understanding of relationship between poverty, environment, climate change, economics and social issues;
- Ability to translate scientific climate information into policy and practical guidance;
- Understanding international climate negotiation processes – UNFCCC, Kyoto, Copenhagen, INDCs in ATS region etc;
- Cultural sensitivity to work in multicultural, multi-ethnic environment;
- Experience in producing high quality reports;
- High motivation and ability to work and deliver under tight deadlines;
- Able to work independently with little or no supervision.

#### **Language requirements**

- Fluency in English with excellent written communication skills, and strong experience writing reports is required;
- Ability to speak Bahasa, Portuguese, Tetum, and/or Tok Pisin would be an asset.

#### **Competencies and special skills requirement**

- Strong leadership, coordination and good communication skills;
- Strong analytical, reporting and writing skills;
- Openness to change and ability to receive/integrate feedback;
- Ability to plan, organize, implement and report on work;
- Ability to work under pressure and tight deadlines;
- Proficiency in the use of office IT applications and internet in conducting research;

- Good presentation and facilitation skills.
- Demonstrates integrity and ethical standards;
- Positive, constructive attitude to work;
- Displays cultural, gender, religion, race, nationality and age sensitivity and adaptability;
- Strong field work experience on climate change adaptation and mitigation and strong communication skills in community and other relevant stakeholders is preferred;

## V. EVALUATION METHOD AND CRITERIA

### **Cumulative analysis**

When using this weighted scoring method, the award of the contract should be made to the individual consultant whose offer has been evaluated and determined as:

a) responsive/compliant/acceptable, and

b) Having received the highest score out of a pre-determined set of weighted technical and financial criteria specific to the solicitation.

\* Technical Criteria weight; 70

\* Financial Criteria weight; 30

Only candidates obtaining a minimum of 70 point would be considered for the Financial Evaluation

Criteria	Weight	Maximum Point
<u>Technical</u>	70	100
Criteria A: Qualification Requirements as per TOR:		70
1. Criteria 1: Advanced university degree (Master's degree or equivalent) in climate change science, coastal/marine science and management, environmental science or other related fields;		20
2. Criteria 2: At least 10 years of relevant experiences on climate change relevant works;		20
3. Criteria 3: Knowledge on political economy and governance of climate change/environment;		15
4. Criteria 4: Ability to translate scientific climate information into policy and practical guidance;		10
5. Criteria 5: Experience in producing high quality reports.		5
Criteria B: Brief Description of Approach to Assignment:	30	30
1. Understand the task and applies a methodology appropriate for the task as well as strategy in a coherent manner		10
2. Important aspects of the task addressed clearly and in sufficient detail		10
3. Logical, realistic planning for efficient project implementation		10

## VI. SUBMISSION OF TENDER

Applicants are requested to submit:

1. Duly accomplished **Letter of Confirmation of Interest and Availability**;
2. **Detailed Curriculum Vitae**, indicating all past experience from similar projects, as well as the contact details (email and telephone number) of the Candidate
3. **Brief description** of why the individual considers him/herself as the most suitable for the assignment,
4. A description of the **methodology**, on how they will approach and complete the assignment.

5. **Financial Proposal** that indicates the all-inclusive fixed total contract price, supported by a breakdown of costs.

Applicants are requested to submit the tender and requirements via email to [recruitment@pemsea.org](mailto:recruitment@pemsea.org) with copy to the Regional Project Manager at [hasusanto@pemsea.org](mailto:hasusanto@pemsea.org). Kindly indicate the vacancy reference number and title of requirement when applying (in the subject line) by email.

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**Additional Considerations**

Bid applications received after the closing date will not be considered. Only those candidates that are shortlisted will be notified. Applicants from the ATSEA region are highly preferred.

For more information on ATSEA and ATSEA2, please visit <http://diktas.iwlearn.org/ATSEA>; [www.id.undp.org](http://www.id.undp.org); and [www.pemsea.org](http://www.pemsea.org)