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## UNDP/GEF PROJECT ENTITLED “REDUCING ENVIRONMENTAL STRESS IN THE YELLOW SEA LARGE MARINE ECOSYSTEM”

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UNDP/GEF/YS/RWG-E.2/6  
Date: 21 October 2005  
English only

### **Second Meeting of the Regional Working Group for the Ecosystem Component**

*Shanghai, China, 29 November to 2 December 2005*

### **Proposed Activities to be Implemented from 2005 to 2006**

One of the responsibilities of the Regional Working Group – Ecosystem is to provide technical guidance for implementation of activities under this project component. Certain activities have been identified for implementation during the first two years of the Project. The results of the activities should contribute to the Transboundary Diagnostic Analysis (TDA), and some will enhance regional capacity to manage the Yellow Sea ecosystem.

The draft activity descriptions are attached below for members to review and suggest candidates for implementing the activities. The activities are presented with their relevant agenda item number for this meeting, and some in the format of the “Statement of Work.” Necessary institutional and/or consultant contracts will be issued to implement these activities according to the timelines listed.

The meeting will be invited to consider the proposed activities, provide technical guidance on the contents of the activities, and provide suggestions regarding the implementation. The “Statement of Work” will be circulated later, according to the UNOPS’s regulation and requirements for implementation of project activities. The meeting may wish to give suggestions on the appropriate institutions and persons who are suitable and willing to take these jobs.

This document contains specific activities approved by the PSC. The general workplan and activities will be discussed in a separate agenda item.

### **Agenda 6.1 Regional Data and Information Synthesis**

#### **1. Background**

In the approved Implementation Plan of the UNDP/GEF Yellow Sea Project, “Reducing Environmental Stress in the Yellow Sea Large Marine Ecosystem,” one of the agreed activities of the Ecosystem Component is to prepare a regional synthesis of the data and information collected from China and Korea, to input into the ecosystem chapter of the Transboundary Diagnostic Analysis (TDA). The regional synthesis will compile and analyse the information collected from national reports to provide a regional picture of Yellow Sea ecosystem problems. The format and types of data and information to collect from the

countries were agreed by the members of the Regional Working Group-Ecosystem (RWG-E) at its first meeting (Goeje, Korea, 10—13 May 2005). It was also agreed that both natural and socio-economic data and information should be collected.

**Geographic Scope:** The Yellow Sea large Marine Ecosystem is defined in the Project Document as the body of water delineated at the south, by a line connecting the north bank of the mouth of the Chang Jiang (Yangtze River) to the south side of Cheju; at the east, by a line connecting Cheju Island to Jindo Island along the coast of the Republic of Korea; and to the north, a line connecting Dalian to Penglai (on the Shandong Peninsula). This latter line separates the Bohai Sea from the Yellow Sea and as a result is not included in this study.

## 2. Description of Required Services

A consultant will be hired to carry out the main responsibility of preparing a regional synthesis report containing an assessment of national ecosystem data and information collected from China and Korea. The report should contain:

- 1) A scientifically-sound assessment of the national ecosystem data and information collected from China and Korea;
- 2) A synthesis and summary of the national data to provide a regional picture of Yellow Sea ecosystem status, trends, and gaps (illustrated through appropriate tables and graphics);
- 3) Based on the available information and additional data generated through the cooperative study cruises, determine the Yellow Sea's ecosystem status and trend; and
- 4) Present the results in a draft write-up for the Ecosystem Chapter of the TDA.

### Qualifications:

The incumbent should have the following qualifications:

- At least 15 years proven track record in the area of coastal and marine ecosystem management and/or research.
- Strong natural science background with knowledge of marine ecosystem management and policies.
- Familiarity with regional marine ecosystem research institutions and management agencies.
- Familiarity with working in the region.
- Good interpersonal skills, and ability to liaise with governments, relevant research institutions, and relevant data centres in the region.
- Proficiency in English.

## 3. Deliverables and Deadlines

The commissioned assignment should be carried out from January through July 2006, according to the following schedule:

<u>Task</u>	<u>Deadline</u>
Provide workplan to PMO	January 2006
Synthesis report	January – July 2006
Final report and financial statement	1 July 2006

#### **4. Monitoring/Progress Control**

The PMO will assume overall supervision and co-ordination of this task. Programmatic guidance should be sought from the Project Manager, Mr. Yihang Jiang ([yihang@yslme.org](mailto:yihang@yslme.org)), copied to Ms. Connie Chiang ([connie@yslme.org](mailto:connie@yslme.org)) at the Yellow Sea PMO. All deliverables should be submitted to Ms. Connie Chiang.

#### **5. Expected Outputs/Results**

The final product should be a report following the suggested table of contents listed below.

##### **SUGGESTED TABLE OF CONTENTS**

- I. Background of assignment
- II. Methods used to carry out assignment
- III. Regional synthesis of data and information
- IV. Information gaps and recommendations to fill the gaps
- V. Draft chapter for TDA
- VI. Persons / institutions visited or interviewed

Three copies of the report will be submitted to the Yellow Sea Project Management Office by 1 July 2006.

##### **BREAKDOWN OF COSTS (USD)**

There may be travel costs associated with this task. Travel costs associated with the missions should be included in the fees below. Consultant will make its own travel arrangements unless otherwise agreed in advance with the PMO.

<<Proponent to insert budget.>>

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### **Agenda 6.2 Regional Synthesis for Assessing Carrying Capacity**

At the First RSTP Meeting, a sessional working group charged with discussing the cross-component carrying capacity issue reported that carrying capacity assessment would focus on fisheries resources, with the output from Ecosystem Component's primary and secondary production assessment serving as input for estimating fisheries carrying capacity.

Given this slight change in focus, members will need to decide what actions should be taken under this activity. Members should also consider the implementation of this activity within the context of the carrying capacity training workshop and remote sensing workshop that are planned under this component's implementation.

### **Agenda 6.3 Regional Synthesis for Identifying and Ranking Stresses on the Ecosystem**

It is proposed that this task be combined with the activity listed under Agenda 6.1. However, the discussion is open to members for their guidance and agreement.

### **Agenda 6.4 Strategies for Monitoring Changes in the Ecosystem**

A consultant will be hired to carry out the main responsibility of preparing a strategy for monitoring changes in ecosystem status. The report should contain:

- 1) Referring to the required data and information to be collected for the Transboundary Diagnostic Analysis, a list of parameters and/or indicators that may be used to monitor and detect changes in ecosystem status;
- 2) A review and assessment of existing monitoring methods, and their pros and cons;
- 3) Recommendations on using existing or proposing new strategy(ies) to monitor ecosystem changes;
- 4) Recommendations on inter-calibration of data for laboratories, the types of standards to use, and from where the standards could be obtained; and
- 5) Recommendations on intra- and inter-regional ecosystem data exchange.

#### **Qualifications:**

The consultant selected to carry out this task should have the following qualifications:

- At least 15 years proven track record in the area of coastal and marine ecosystem management and/or research.
- Strong natural science background with knowledge of marine ecosystem monitoring, management, and policies.
- Familiarity with ecosystem data management.
- Familiarity with working in the region.
- Good interpersonal skills, and ability to liaise with governments, relevant research institutions, and relevant data centres in the region.
- Proficiency in English.

The commissioned assignment should be carried out from January 2006 through July 2006.

#### **Expected Outputs/Results**

The final product should be a report following the suggested table of contents listed below.

## **SUGGESTED FINAL REPORT TABLE OF CONTENTS**

- I. Background of assignment
  - II. Methods used to carry out assignment
  - III. Indicators to monitor and detect changes in ecosystem status
  - IV. Review and assessment of existing monitoring methods
  - V. Recommendations for strategy(ies) to monitor ecosystem changes
  - VI. Recommendations on inter-calibration of data
  - VII. Recommendations on intra- and inter-regional ecosystem data exchange
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### **Agenda 6.5 Demonstration of New and Innovative Technologies for Monitoring Ecosystem**

The intention of this activity is for institute(s) to demonstrate the use of “new and innovative technologies” for monitoring ecosystem change. Members should identify what constitutes “new and innovative technologies,” and provide guidance on the actions to take for this activity.

### **Agenda 6.6 – See Document UNDP/GEF/YS/RWG-E.2/7**

### **Agenda 6.7 Preparation of Ecosystem Component in the TDA**

The ultimate purpose of implementing the various activities is to provide information for the TDA. After discussing the activities that should be implemented during 2005 to 2006, members should consider how the results of the activities will contribute to the TDA.

The PMO will give an overview of the proposed method to carry out the governance analysis, which will be refined during the 2<sup>nd</sup> RWG-Investment Meeting (14-17 November 2005). After understanding the proposed procedure for carrying out governance analysis, members should review the preliminary causal chain analysis and governance analyses, and agree on any further actions that need to be taken to provide input for these analyses.