

## STATEMENT OF WORK

### Consultant to Develop Regional Ocean Colour Algorithm for the Yellow Sea

**\*\*\*\*Proposal submission deadline: 10th April 2007\*\*\*\***

#### 1. Background

Following the discussions and agreements from the UNDP/GEF Yellow Sea Project, “Reducing Environmental Stress in the Yellow Sea Large Marine Ecosystem,” Regional Working Group for Ecosystem’s two meetings (10-13 May 2005 and 29 Nov. – 2 Dec. 2005), one of the agreed activities of the Ecosystem Component is to **develop (or refine any existing) operational regional algorithm for ocean colour that can be used for better assessment and future monitoring of primary productivity in the Yellow Sea**. The algorithm is the expected outcome of the activity.

**This “Statement of Work” describes the scope of the activity and the required services. Interested parties may submit proposals detailing how they plan to organise the activity, according to the required services set out below.**

**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. However, scientists in China, Japan, and Republic of Korea each possess data that will contribute to the development of the algorithm, and data from any of these countries should be used to produce the activity’s outcomes.

#### 2. Description of Required Services

A consultant (or a team) will be hired to carry out the main responsibility of developing (or refining existing) a regional ocean colour algorithm that can be used in the Yellow Sea. Considering the complicated optics of the Yellow Sea and that data needed to develop such an algorithm lies distributed among scientists in the region and also with scientists in Japan, the consultant should take into account the following tasks needed to produce the expected outcome<sup>1</sup>.

- 1) Oversee and co-ordinate all aspects of the proposed tasks listed below, and any others deemed necessary and described in the bidding proposal;
- 2) Identify scientists and/or data sources that contain chlorophyll and other optic data required for algorithm development;
- 3) Organise three meetings and/or workshops, discussion fora as need, for above data owners to discuss use of their data, protocol to use data; types of statistics to use, protocol to develop algorithm;
- 4) Based on provided data, conduct all necessary analyses and preparation;
- 5) Produce algorithm that may be used for the Yellow Sea; and

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<sup>1</sup> Note that other tasks might be necessary, and proposals should describe all necessary tasks in as much detail as possible.

- 6) Provide a final report describing the actions taken to implement the activity, achievements made, the algorithm and recommended use, and any other relevant information.

The commissioned assignment is expected to be carried out from 1<sup>st</sup> **May through 15<sup>th</sup> December 2007**.

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 research, particularly in the area of ocean colour.
- Strong natural science background with knowledge of manipulating remote sensing data.
- Extensive experience with estimating primary productivity measurements.
- Familiarity with working in the region.
- Good interpersonal skills, and ability to liaise with scientists, relevant research institutions, and relevant data centres in the region.
- Proficiency in English.

**3. Deliverables and Deadlines**

The activity should be implemented before the end of 2007. The algorithm and all deliverables should be submitted to the PMO approximately according to the schedule below.

<u>Action</u>	<u>Deadline</u>
Submit a workplan	May 2007
Summaries of any meetings, workshops, discussion fora convened	Within one month after the event
Submit final algorithm and final report	15 <sup>th</sup> December 2007

**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.

**5. 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. Tasks needed to carry out assignment
- III. Achievements
- IV. The algorithm
- V. Recommended use (or any difficulties if not yet fully usable)

**6. Contents of the Proposal**

Interested parties should submit a detailed proposal to [info@yslme.org](mailto:info@yslme.org) before the deadline of 10<sup>th</sup> April 2007.

The proposal should include:

- 1. Brief rationale for the activity
- 2. Description of methods and tasks needed to implement activity (as detailed as possible, e.g. number of persons, number of events, time and places of tasks to be carried out)
- 3. A detailed budget breakdown in US Dollars, including any co-financing resources (budget items should match the tasks listed)
- 4. Workplan
- 5. CV of lead proponent / contact person, and full contact details

**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.

<u>Item</u>	<u>Unit Cost (USD)</u>	<u># of Units</u>	<u>Unit Description</u>	<u>Total Cost (USD)</u>
<b>TOTAL AMOUNT REQUESTED</b>				

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