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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/RSTP.1/4

Date: 8 November 2004

English only

**Regional Technical Meeting on  
Preparation of the Implementation Plan  
for the UNDP/GEF Yellow Sea Project  
*Beijing, China, 14-16 December 2004***

**Proposed Actions for the Implementation based on the  
Approved Project Activities during the PDF-B phase**

**1. Background**

During the project development phase (PDF-B), the participating countries agreed the objectives of the project, and the activities to achieve the objectives. These agreed objectives and activities are provided in the Project Document, which was submitted to the GEF council, and approved. For easy reference of the participants to the meeting, the Project Document was provided as information document (UNDP/GEF/YS/RSTP.1/inf.4).

Based on these agreements the Project Co-ordinating Unit (PCU) carried out an analysis after the first staff was appointed, with aim to prepare implementation plan for the project, including implementation budget, project structure, workplan, etc. It was noted that due to the long-delay to get the project implementation start, some of elements within the project document need to be modified as some basic factors have been changed.

This document provides information on what the activities have been agreed by the participating countries during the PDF-B phase; how these agreed activities should be implemented, and what would be idea arrangements for the implementation. The document also provides estimation of costs for each “group” of actions, which are “indicative” estimations.

**2. Some Explanations on the Attached Tables.**

The left column in the table represents the activities agreed in the Project Document. It should be noted that the version of the Project Document to be used in this document was the official copy downloaded from the GEF homepage.

The second column from left indicates the proposed actions to be taken for the agreed activities. On another word, this column provides information on how to implement the agreed activities as listed in the first column, with time sequences.

The third column provides information on what kind of arrangements would be made for the implementations, which include hiring consultants, institutional contracts, meetings and training, etc. It should be note that in order to achieve the objective to enhance institutional capacity in the

participating countries, more funding allocated to institutional contracts than using individual consultant.

The fourth column attended to group similar activities together. For instance, for the first meeting of the Regional Working Group for Fisheries, there will be four major tasks to be carried out. With this groupings, it will be easily find (i) the tasks for individual consultants; (ii) major agenda item for every meetings; (iii) major tasks for institutional contracts. It also provides justifications and time sequences for the workplan of the implementation.

<b>Objective 1. Fisheries &amp; Mariculture</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
<b>Stock assessment</b>				
Activity 1. Review of existing data and diagnosis of condition of stocks.	Contract to national focal points for data and info.	Contract 1-1	Contract 1-1 - 1-5	125,000
	Regional WG meeting 1	Meeting 1-1	Meeting 1-1 - 1-4	17,500
	Revise national data and info	Contact 2-1	Contract 2-1 - 2-3	5,000
	Finalisation of data and info. WG meeting 3	Meeting 3-1	Meeting 3-1 - 3-10	22,500
	Inputs to final TDA			
Activity 2. Perform demonstration of a Regional Survey.	Prepare guidelines for survey (consultant)	Consultant 1-1	Consultant 1-1 - 1-4 (1.5 w/m)	10,500
	Accept guidelines (WG meeting 1)	Meeting 1-2		
	Equipment	contract		90,000
	Regional Survey (sub-contract)	Contract 3		610,000
	Analyse survey result (consultant)			
	Publish survey result (printing)			
Activity 3. Develop common methodology for joint regional stock assessment and perform initial joint regional stock assessment.				
	Gathering existing methods & prepare suggested methods(consultant)	Consultant 1-2		
	Discuss & Modify the methods (WG meeting 1)	Meeting 1-3		
	Revise the regional methods (consultant)			
	finalise the method (WG meeting 2)	Meeting 2-1	Meeting 2-1 - 2-5	17,500

Objective 1. Fisheries & Mariculture				
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions	
Activity 4. Perform initial joint regional stock assessment				
	Prepare a plan for the stock assessment	Consultant 1-3		
	Technical discussion on the plan (WG meeting 3)	Meeting 3-2		
	implement the regional stock assessment (contracts)	Contract 4	40000 x 2	80,000
	Discuss the results of assessment (WG meeting 4)	Meeting 4-1		17,500
	Additional assessment if necessary (contracts)			
	Accept the assessment result (WG meeting 5)	Meeting 5-1	meeting 5-1 - 5-6	20,000
	Publication of assessment results (printing)			4,000
	Stock assessment			65,000
Activity 5. Create mechanism for regional annual multi-species stock assessment, by introducing legal/policy changes to overcome existing barriers.				
	to identify major barriers in stock assessment (WG meeting 2)	Meeting 2-2		
	Identify the species to be assessed (WG meeting 2)	Meeting 2-3		
	Prepare draft mechanism for annual assessment (PCU)			
	Discuss the draft mechanism (WG meeting 3)	Meeting 3-3		
	Revise the draft mechanism (consultant)	Consultant 1-4		
	Finalisation of the mechanism (WG meeting 5)	Meeting 5-2		
<b>Carrying capacity</b>				

Objective 1. Fisheries & Mariculture				
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions	
Activity 1. Review of existing state-of-knowledge and preliminary carrying capacity analysis (retrospective) and define gaps				
	Contract to national focal points for assessing information	Contact 1-2		
	Regional WG meeting 1	Meeting 1-3		
	Revise national state of knowledge	Contact 2-2		
	Finalisation of Report (WG meeting 3)	Meeting 3-4		
	Inputs to final TDA			
Activity 2. Fill the knowledge gaps for carrying capacity analysis.				
	Prepare guidelines for carrying capacity (consultant)	Consultant 2-1	2 w/m	14,000
	Reg Training course on carrying capacity (Training 1)	Training 1		20,000
Activity 3. Perform iterative series of analysis of carrying capacity				
	Prepare workplan for the analysis (consultant)	Consultant 2-2		
	discuss and agree on the workplan (WG meeting 3)	Meeting 3-5		
	Implement the workplan (contracts to national focal points)	Contract 5		
Activity 4. Annual carrying capacity determination				
	Gathering results of the analysis (PCU)			
	Scientific seminar (together with WG meeting 5). (Meetings)	Meeting 5-3		
	Publication of the regional carrying capacity			3,000
	Annual carrying capacity determination	Need Annually?		26,000
<b>Mariculture Production</b>				

<b>Objective 1. Fisheries &amp; Mariculture</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
Activity 1. Review existing status and trends of mariculture.	Contract to national focal points for assessing information	Contact 1-3		
	Regional WG meeting 1	Meeting 1-4		
Activity 2. Develop joint applied research program for sustainable mariculture.				
	Prepare a draft joint research plan (consultant)	Consultant 3-1	1.5 w/m	10,500
	Presented draft to the WG meeting 2	Meeting 2-4		
	Revise the draft according to the agreement	Contract 2-3		
	Finalise the plan in WG meeting 3	Meeting 3-6		
Activity 3. Pilot demonstration projects in mariculture				
	Selection sites for the pilot, WG meeting 3	Meeting 3-7		
	Implementation of the pilot activities (contract)	Contract 6		
	Present results to WG meeting 5	Meeting 5-4		
	Publication of the results (printing)			
Activity 4. Assist region to implement mariculture techniques.				
	Prepare technical guidelines (consultant)	Consultant 3-2		
	Training course on mariculture techniques (Training)	Training 2		20,000
<b>Disease in Mariculture</b>				
Activity 1. Review existing state of knowledge of disease in mariculture, particularly emphasizing emergent diseases.				
	Contract to national focal points for assessing information	Contact 1-4		
	Present the results to WG meeting 2	Meeting 2_5		
Activity 2. Joint development and demonstration of new methods for diagnosis, prevention, and control.				
	Prepare technical guidelines (consultant)	Consultant 3-3		

<b>Objective 1. Fisheries &amp; Mariculture</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
	Training course on disease diagnosis, prevention and control	Training 3		20,000
	Form a joint team to test the relevant techniques			
	Prepare a strategy for the disease prevention	Consultant 3-4		
Activity 3. Facilitate communication about new diseases, diagnoses, and control techniques.				
	Establish a regional network on information sharing and quick response (PCU)			
	Agreed on WG meeting 3	Meeting 3-8		
<b>Regional Agreements and National Laws</b>				
Activity 1. Review existing national laws and regulations on fisheries and mariculture, and pertinent international agreements				
	Contract to national focal points to assess information on national laws & regulation, and national responsibility of regional and Intl conventions	Contact 1-5		
	Publication of the existing knowledge together with analysis and suggestions			4,000
Activity 2. Develop regional agreement for sustainable use of fisheries resources.				
	Feasibility study on the regional agreement, in particular for implement the FAO code of conduct in responsible fisheries (contract to natl focal points)	Contract 7	1 w/m	7,000
	Prepare drft regional agreement (consultant)	Consultant 4-1	4-1 - 4-3 (3 w/m)	21,000
	Discuss the regional agreement WG meeting - 4	Meeting 4-2		
	Revise the draft (consultant)	Consultant 4-2		

<b>Objective 1. Fisheries &amp; Mariculture</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
	Discussion WG meeting 5	Meeting 5-5		
	repeat the actions if necessary	Consultant 4-3		
	Finalise the agreement and propose to the respective governments for approval			
Activity 3. Propose measures for strengthening laws and regulations,				
	Enforcement will be considered together with Activity 2.			
<b>Management Plan</b>				
Activity 1. Development of Regional fisheries management/implementation plans, including regional recovery programme.				
	Identify regional requirements and target for regional SAP (consultant)	Consultant 5-1	2 w/m	14,000
	Prepare national SAP (contract to focal points)	Contract 8		
	Discuss draft national SAP (WG meeting 3)	Meeting 3-9		
	Revise national SAP			
	Finalise national SAP			
	Discuss framework of Regional SAP (WG meeting 3)	Meeting 3-10		
	Prepare draft regional SAP (consultant)			
	Discuss and revision (WG meetings 4,5, 6)	Meeting 4-2, 5-6, 6-1		
Activity 2. Implementation of Regional Fisheries and ecosystem Management/Implementation Plans, including regional recovery programme.				



Objective 2. Biodiversity Protection				
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions	
<b>IIA. Habitat Conservation</b>				
Activity 1. Review existing national practices of coastal habitat use, conservation, and restoration.				
	Contract to Natl focal points (contract)	<i>Contract 1-1</i>	Contract 1-1 - 1-3	45,000
	Present outcomes of national assessment in WG meeting 1	<i>WG meeting 1-1</i>	meeting 1-1 - 1-6	20,000
	Prepare a regional synthesis (consultant)	<i>Consultant 1-1</i>	Consultant 1-1 - 1-4 (1.5 w/m)	10,500
	Finalisation national outputs and synthesis (WG meeting 2)	<i>Meeting 2-1</i>	Meeting 2-1 - 2-6	20,000
	Publish the outcomes (printing)	<i>Pub 1</i>		3,000
	<i>Inputs to final TDA</i>			
Activity 2. Develop regionally coordinated strategies of conservation and restoration of habitats.				
	Prepare draft regional strategy (consultant)	<i>Consultant 1-2</i>		
	Discuss & modify the draft (WG meeting 1)	<i>Meeting 1-2</i>		
	Revise the draft accordingly	<i>Consultant 1-3</i>		
	Finalise strategy (WG meeting 2)	<i>Meeting 2-2</i>		
<i>Inputs to Regional SAP</i>				
Activity 3. Implement Regional Strategy for Conservation Areas.				
	Prepare draft implementation plan (consultant)	<i>Consultant 1-4</i>		
	Adopt implementation plan (WG meeting 4)	<i>Meeting 4-1</i>	meeting 4.1-4.4	17,500
	Implement the strategy (Contract to Natl focal points)	Contract 2		135,000
<b>IIB. Vulnerable Species</b>				

<b>Objective 2. Biodiversity Protection</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
Activity 1. Conduct national review of status of vulnerable species and vulnerable trophic linkages.				
	Contract to Natl focal points (contract)	<i>Contract 1-2</i>		
	Present outcomes of national assessment in WG meeting 1	<i>Meeting 1-3</i>		
	Prepare a regional synthesis (consultant)	<i>Consultant 2-1</i>	Consultant 2-1 - 2-4 (2 w/m)	14,000
	Finalisation national outputs and synthesis (WG meeting 2)	<i>Meeting 2-3</i>		
	Publish the outcomes (printing)	Pub 2		3,000
	<i>Inputs to final TDA</i>			
Activity 2. Develop regionally-coordinated strategies for protection of vulnerable species.				
	Prepare draft regional strategy (consultant)	<i>Consultant 2-2</i>		
	Discuss & modify the draft (WG meeting 1)	<i>Meeting 1-4</i>		
	Revise the draft accordingly	<i>Consultant 2-3</i>		
	Finalise strategy (WG meeting 2)	<i>Meeting 2-4</i>		
	<i>Inputs to Regional SAP</i>			
Activity 3. Implementation of regionally coordinated strategies for protection of vulnerable species.				
	Prepare draft implementation plan (consultant)	<i>Consultant 2-4</i>		
	Adopt implementation plan (WG meeting 4)	<i>Meeting 4-2</i>		
	Implement the strategy (Contract to Natl focal points)	Contract 3		128,000
<b>IIC. Genetic Diversity</b>				
Activity 1. Determine situations of genetic degradation of important bio-resources.				

<b>Objective 2. Biodiversity Protection</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
	Prepare draft of current status of genetic degradation of important bio-resources (Consultant)	<i>Consultant 3-1</i>	consultant 3-1 - 3-3 (1 w/m)	7,000
	Discuss & finalise the current status (WG meeting 1)	Meeting 1-5		
	Inputs to TDA			
Activity 2. Develop regional consensus on the requirements for conservation of gene	prepare a draft list on conservation of genetic diversity (Consultant)	<i>Consultant 3-2</i>		
	Training Course on genetic techniques	<i>Training 1</i>		20,000
	Agree on the list of gene (WG meeting 2)	<i>Meeting 2-5</i>		
	Prepare a plan for the conservation (consultant)	<i>Consultant 3-3</i>		
	Finalise the plan (WG meeting 3)	<i>Meeting 3-1</i>	Meeting 3-1 - 3-3	17,500
	Input to SAP			
Activity 3. Prepare recommendations for conservation measures				
	The activities will be incorporated into the Activitie 2			
<b>IID. Introduced Species</b>				
Activity 1. Document introduced exotic species and their pathways, assess impacts and risks.	Contract to Natl focal points (contract)	<i>Contract 1-3</i>		
	Discuss & modify the draft (WG meeting 1)	<i>Meeting 1-6</i>		
	Revise the draft accordingly	<i>Contract 1-3</i>		
	Finalise strategy (WG meeting 2)	<i>Meeting 2-6</i>		
	Inputs to Regional SAP			

<b>Objective 2. Biodiversity Protection</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
Activity 2. Develop proposals for regulation and control of exotic species.	Prepare draft regulation to control exotic species (consultant)	Consultant 4-1	Consultant 4-1 - 4-5 (1.5 w/m)	10,500
	Discuss the draft (WG meeting 3)	Meeting 3-2		
	Training course on implementation of the regulation	Training 2		20,000
	Revise the draft accordingly			
	Finalise strategy (WG meeting 4)	Meeting 4-3		
	Submit for approval of governments			
	Inputs to Regional SAP			
	Activity 3. Implement strategies for regulation and control of introduction of exotic species, including necessary legal, policy, and institutional reforms at national and regional levels.	Upon approval, prepare an implementation plan (consultant), together with the Activity 1, IIE	Consultant 4-2	
Implement the regulation				
Inputs to Regional SAP				
<b>IIE. Regulations</b>				
Activity 1. Review national regulations and effectiveness of protection measures.	Consultant together with the Activities 3 of IID.	Consultant 4-3		
Activity 2. Develop regionally coordinated strategies				
<b>IIF. Regional Assessment and Regional Biodiversity Plan</b>				
Activity 1. Coordinate above activities into biodiversity assessment, regional Action Plan, and investment strategy.	Prepare regional action plan on protection of biodiversity (consultant)	Consultant 4-4		
	Discuss the draft (WG meeting 4)	Meeting 4-4		
	Revise the draft accordingly	Consultant 4-5		

Objective 2. Biodiversity Protection				
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions	
	Finalise strategy (WG meeting 5)	<i>Meeting 5-1</i>	Meeting 5-1	17,500
	Submit for approval of governments			

<b>Objective 3. Ecosystem &amp; Water Quality</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
<b>IIIA Stressors to Ecosystem</b>				
Activity 1. Identify and rank stresses on the ecosystem; identify data and information gaps				
	Contract to Natl focal points (contract)	<i>Contact 1.1</i>	Contract 1.1.-1.4	120,000
	Present outcomes of ranking, data and info in WG meeting 1	<i>Meeting 1.1</i>	meeting 1.1-1.3	12,500
	Prepare a regional synthesis (consultant)	<i>Consultant 1.1</i>	consultant 1.1-1.3 (1.5 w/m)	10,500
	Finalisation national outputs and synthesis (WG meeting 2)	<i>Meeting 2.1</i>	meeting 2.1-2.5	15,000
	Publish the outcomes (printing)	<i>Printing 1</i>		3,000
	Inputs to final TDA			
Activity 2. Identify corrective measures to minimize the human-induced stress.	I do not think this is correct sequence of activities. It would be in SAP			
	Identify major human induced stresses (contract)	<i>Contract 1.2</i>		
	Causal chain analysis (contract)	<i>Contract 1.3</i>		
	Identify measures to address the root causes (WG meeting 2)	<i>Meeting 2.2</i>		
	Inputs to final TDA			
Activity 3. Identify policies and legal measures to reduce the stress.				
	Contract to Natl focal points (contract)	<i>Contract 1.4</i>		
	Present outcomes of ranking, data and info in WG meeting 1	<i>Meeting 1.2</i>		
	Prepare a regional synthesis (consultant)	<i>Consultant 1.2</i>		
	Finalisation national outputs and synthesis (WG meeting 2)	<i>Meeting 2.3</i>		
	Publish the outcomes (printing)	<i>Printing 2</i>		3,000
Inputs to final TDA				

<b>Objective 3. Ecosystem &amp; Water Quality</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
Activity 4. Develop strategy to identify long-term sustainable investments to improve the YSLME.	<b>It should combined with Activitie 2. What does it mean "Improve YSLME"?</b>			
	Prepare a format for national strategy (PCU)			
	Prepare natl strategy (contract)	Contract 2.1	Contract 2.1-2.2	45,000
	discussing natl strategy (WG meeting 3)	meeting 3.1	meeting 3.1	12,500
	Revise natl strategy (contract)	Contract 2.2.		
	Prepare regional draft strategy (consultant)	consultant 1.3		
	finalise natl strategy (WG meeting 4)	Meeting 4.1	meeting 4.1-4.3	12,500
	discussing reg. strategy (WG meeting 4)	meeting 4.2		
	finalise reg strategy (WG meeting 5)	meeting 5.1	meeting 5.1-5.2	12,500
	<b>Inputs to natl &amp; reg SAP</b>			
Activity 5. Implement corrective measures to minimize the human-induced stress.				
	Identify the pilot sites (WG meeting 5)	meeting 5.2		
	Implement the strategy at the pilot sites (contracts)	Contracts 3	####	135,000
<b>IIIB Carrying Capacity of Ecosystem</b>				
Activity 1. Assess the carrying capacities of the ecosystem under changing human-induced and natural variability; identify data and information gaps: including demonstration of new and innovative technologies.				
	Contract to Natl focal points (contract)	contract 4.1	contract 4.1-4.2	50,000
	Present outcomes of ranking, data and info in WG meeting 1	meeting 1.3		
	Prepare a regional synthesis (consultant)	Consultant 2.1	consultant 2.1-2.7 (2.5 w/m)	17,500
	Finalisation national outputs and synthesis (WG meeting 2)	meeting 2.4		
	Publish the outcomes (printing)	printing 3		3,000
		<b>Inputs to final TDA</b>		

<b>Objective 3. Ecosystem &amp; Water Quality</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
Activity 2. Identify information gaps	Prepare synthesis of the national assessment, and identify the info gaps (consultant)	consultant 2.2		
	Prepare guidelines for carrying capacity (consultant)	consultant 2.3		
	Reg Training course on carrying capacity (Training 1)	training 1		20,000
Activity 3. Develop strategies for monitoring changing status of ecosystem and its transboundary impacts.	Prepare draft strategy, including: parameters, analysis, intercalibration, data exchange etc.	consultant 2.4		
	Discussion the draf (WG meeting 2)	meeting 2.5		
	Revise the draft	consultant 2.5		
	finalise the strategy (WG meeting 3)	meeting 3.1	meeting 3.1-3.2	12,500
Activity 4. Prepare state-of-ecosystem reviews and reports.	Contract to Natl focal points together with Activities 1 (contract)	contract 4.2		
	Establish a regional editorial group /or use the WG			
	Prepare a draft report (consultant)	consultant 2.6		
	Discuss the draft (WG meeting 3)	meeting 3.2		
	Revise the draft report (consultant)	consultant 2.7		
	finalise the draft report (WG meeting 4)	meeting 4.3		
Activity 5. Facilitate implementation of strategies for improving the ecosystem status.	The strategy is for monitoring. How to improve ecosystem status?			
Pollution				
<b>IIIC Contaminant Inputs</b>				



<b>Objective 3. Ecosystem &amp; Water Quality</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
Activity 1. Assess and monitor the contaminant and nutrient levels.	Contract to Natl focal points (contract)	<i>contract 1.1</i>	contract 1.1-1.9	150,000
	Present outcomes of ranking, data and info in WG meeting 1	<i>meeting 1.1</i>	meeting 1.1-1.5	15,000
	Prepare a regional synthesis (consultant)	<i>consultant 1.1</i>	consultant 1.1-1.4 (1.5 w/m)	10,500
	Finalisation national outputs and synthesis (WG meeting 2)	<i>meeting 2.1</i>	meeting 2.1-2.7	17,500
	Publish the outcomes (printing)	<i>printing 1</i>		3,000
	Inputs to final TDA			
Activity 2. Develop regional priorities and strategies to reduce contaminant and nutrients levels	<b>Why separate nutrients from contaminants?</b>			
	Prepare draft strategy, including: parameters, analysis, intercalibration, data exchange etc.	<i>consultant 1.2</i>		
	Discussion the draf (WG meeting 2)	<i>meeting 2.2</i>		
	Revise the draft	<i>consultant 1.3</i>		
	finalise the strategy (WG meeting 3)	<i>meeting 3.1</i>	meeting 3.1-3.5	12,500
Activity 3. Facilitate implementation of these strategies; investment promotion activities including transfer/development new technologies.				
	Prepare an implementation plan (consultant)	<i>consultant 1.4</i>		
	Agree on the implementation plan (WG meeting 4)	<i>meeting 4.1</i>	meeting 4.1-4.6	15,000
	Contracts for implementation	contract 2	###	80,000
<b>IIID Contaminant Levels</b>				
Activity 1. Develop baseline data and summarize contaminant and nutrient levels in the YSLME.				
	Contract to Natl focal points (contract)	<i>contract 1.2</i>		

<b>Objective 3. Ecosystem &amp; Water Quality</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
	Present outcomes of ranking, data and info in WG meeting 1	<i>meeting 1.2</i>		
	Prepare a regional synthesis (consultant)	<i>consultant 2.1</i>	consultant 2.1-2.3 (2 w/m)	14,000
	Finalisation national outputs and synthesis (WG meeting 2)	<i>meeting 2.3</i>		
	Inputs to final TDA			
Activity 2. Develop regional monitoring network strategy.	Establish a monitoring network / or using the existing ones (PCU)			
	Draft Monitoring guidelines / standards (consultant)	<i>consultant 2.2</i>		
	Agree on the guidelines / standards (WG meeting 3)	<i>meeting 3.2</i>		
	Training course on analysis	training 1		20,000
	Intercalibration exercise of participating labs (Contract)	<i>Contract 3</i>		22,000
Activity 3. Develop funding mechanism to implement the monitoring strategy.				
	Prepare an implementation plan (consultant)	<i>consultant 2.3</i>		
	Agree on the implementation plan (WG meeting 4)	<i>meeting 4.2</i>		
	Contracts for implementation	<i>contract 4</i>	####	40,000
<b>Ecosystem</b>				
<b>HABs and Emerging Diseases</b>				
Activity 1. Undertake comparative analysis of causes and impacts of HABs and Emerging Diseases on bio-resources and human health.				
	Contract to Natl focal points (contract)	<i>contract 1.3</i>		
	Present outcomes of ranking, data and info in WG meeting 1	<i>meeting 1.3</i>		

Objective 3. Ecosystem & Water Quality				
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions	
	Prepare a regional synthesis (consultant)	<i>consultant</i> 3.1	consultant 3.1-3.6 (2.5 w/m)	17,500
	Finalisation national outputs and synthesis (WG meeting 2)	<i>meeting</i> 2.4		
	Inputs to final TDA			
Activity 2. Monitor HABs	Prepare draft guidelines for the monitoring HAB	<i>consultant</i> 3.2		
	Discussing the draft guidelines of monitoring HAB (WG meeting 2)	<i>meeting</i> 2.5		
	Finalise the guideline	<i>consultant</i> 3.3		
	Training course on monitoring HAB	training 2		20,000
	Prepare implementation plan of HAB monitoring	<i>consultant</i> 3.4		
	Discussing and agreed on the implementation plan of HAB (WG meeting 3)	<i>meeting</i> 3.3		
	Implementing the monitoring plan (Contracts)	contract 2	####	50,000
Activity 3. Develop management and mitigation strategies	Prepare national management plan and mitigation strategies for HAB (Contract)	<i>contract</i> 1.4		
	Discussing the national plan (WG meeting 3)	<i>meeting</i> 3.4		
	Revise the national Plan	<i>contract</i> 1.5		
	Prepare draft regional management plan and mitigation strategies (Consultant)	<i>consultant</i> 3.5		
	Discussing the regional plan (WG meeting 4)	<i>meeting</i> 4.3		
	Revision of the plan & strategies (Consultant)	<i>consultant</i> 3.6		

<b>Objective 3. Ecosystem &amp; Water Quality</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
	Agree the plan and strategies (WG meeting 5)	<i>meeting 5.1</i>	meeting 5.1-5.7	17,500
	Inputs to regional SAP			
Activity 4. Facilitate regional management and mitigation implementation.				
	Selection of demonstration site for the management plan (WG meeting 5)	<i>meeting 5.2</i>		
	Traning course on the implementation	<i>traing 3</i>		20,000
	Contracts for implementation	#####		100,000
<b>Pollution</b>				
<b>IIIF Critical Spot Analysis</b>				
Activity 1. Determine and rank critical spot sources of water quality degradation.	There is no need to rank the spots			
	Prepare format for data & info collection (PCU)			
	Contract to collect hot spots data and information (contract to Natl focal points)	<i>contract 1.5</i>		
	Discussing & further requirements (WG meeting 1)			
	Revise the hot spots data & info	<i>contract 1.6</i>		
	Inputs to final TDA			
Activity 2. Develop procedures for remediation				
	Draft the procedure (consultant)	<i>consultant4.1</i>	consultant 4.1-4.5 (2 w/m)	14,000
	Discuss the draft (WG meeting 3)	<i>meeting 3.5</i>		
	Revise the procedures (consultant)	<i>consultant 4.2</i>		
	Practice & Intercalibration of the procedure (Contract)	contract 3	#####	25,000
	Finalise the procedures (WG meeting 5)	<i>meeting 5.3</i>		
Activity 3. Develop investment strategies				

<b>Objective 3. Ecosystem &amp; Water Quality</b>				
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>	
	Economic valuation of hot spots, & identify the opportunities (Consultant)	consultant 4.3		
	Identify hot spots in both source, and impact (WG meeting 4).	meeting 4.4		
	Prepare draft strategy (consultant)	consultant 4.4		
	Discussing the draft (WG meeting 5)	meeting 5.4		
	Revise the draft (Consultant)	consultant 4.5		
	Finalise the investment strategy (WG meeting 6)	meeting 6.1	meeting 6.1-6.2	12,500
	Publish the investment strategy	Printing 2		3,000
	Inputs to the regional SAP			
Activity 4. Facilitate implementation of procedures for re-mediation and prevention.				
	Selection of demonstration site for the management plan (WG meeting 5)	meeting 5.5		
	Traning course on the implementation			
	Contracts for implementation	contract 4	####	50,000
<b>IIIG Emergency Planning and Preparedness</b>				
Activity 1. Assess national emergency and contingency capabilities for transboundary contaminants.				
	Identify transboundary contaminants and path ways	contact 1.7		
	Present outcomes of ranking, data and info in WG meeting 1	meeting 1.4		
	Prepare a regional synthesis (consultant)	consultant 5.1	consultant 5.1-5.3 (1.5 w/m)	10,500
	Finalisation national outputs and synthesis (WG meeting 2)	meeting 2.6		
	Inputs to final TDA			

<b>Objective 3. Ecosystem &amp; Water Quality</b>					
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>		
Activity 2. Develop strategies for rapid and long-term regional responses to catastrophic causes of pollution;	Establishing data & info sharing network (WG meeting 4)	meeting 4.6			
	Prepare draft strategy (consultant)	consultant 5.2			
	Discussing the draft (WG meeting 5)	meeting 5.6			
	Revise the regional strategies	consultant 5.3			
	Finalise the regional strategies (WG meeting 6)	meeting 6.2			
	Publish the strategies	Printing 3		3,000	
	<b>Inputs to regional SAP</b>				
	Activity 3. Facilitate regional actions to enable contingency planning.	<b>Where this plan come from?</b>			
Activity 4. Harmonize customs, training.	<b>Do not understand !</b>				
<b>IIH Legal and Regulatory</b>					
Activity 1. Review and compare national regulations and laws on water quality and pollution control, develop proposals.	Contract to natl focal points	contract 1.8			
	Regional review (WG meeting 3)	meeting 3.6			
	Regional analysis and suggestion on hamolisation	Consultant 6.1	consultant 6.1-6.4 (2 w/m)	14,000	
	Publish review report	Printing 4		3,000	
	<b>Inputs to national and regional SAP</b>				
Activity 2. Facilitate coordinated actions to improve regional water quality legislation and regulation	Identify the pilot sites for the actions (WG meeting 5)	meeting 5.7			
	Contract to the pilot activities	#####			
	<b>IIli Analysis of the Fate and Transport of Contaminants to Facilitate SAP Analysis</b>				

Objective 3. Ecosystem & Water Quality				
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions	
Activity 1. Review existing understanding of fate and transport of contaminants,				
	Contract to Natl focal points (contract)	<i>contract 1.9</i>		
	Present outcomes of ranking, data and info in WG meeting 1	<i>meeting 1.5</i>		
	Prepare a regional synthesis (consultant)	<i>Consultant 6.2</i>		
	Finalisation national outputs and synthesis (WG meeting 2)	<i>meeting 2.7</i>		
	Publish the outcomes (printing)	<i>Printing 5</i>		3,000
Activity 2. Develop regional assessment strategies	Inputs to final TDA			
	Not clear on what to do			
	Prepare draft strategy (consultant)	<i>Consultant 6.3</i>		
	discussing the draft (WG meeting 4)	<i>meeting 4.6</i>		
	revise the strategy	<i>Consultant 6.4</i>		
training & intercalibration on assessment	<i>Training</i>		20,000	
Activity 3. Perform fate and transport analyses for management and policy development, including EIA process, ICZM.	Not clear on what to do			
Activity 4. Develop regional training activities for environmental risk assessment; facilitate use of risk assessment in investment decisions.	Not clear on what to do			

OBJECTIVE IV Development of Regional Institutions and Capacities						
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions			
<b>IVA Stakeholders</b>						
Activity 1. Identify stakeholders and asses their capacities for contributing to environmental management and decision-making.						
	Contract to natl focal points (Contract)	Contract 1.1	consultant 1.1- 1.4	24,000		
	Produce a regional list (PCU)					
Activity 2. Strengthen stakeholder capacities						
	Prepare training materials for all stakeholders (contract)	contract 1.2				
	Training for decision makers (Training 1)	Training 1		20,000		
	Training for community trainers (Training 2)	training 2		20,000		
	Training for local governmental officers (training 3)	training 3		20,000		
	Intern programme	Followship	60m/m \$2,000/m	120,000		
	Site visits by local governmental officials	contract 1.3				
	"The Yellow Sea and Youth"	Contract 2	2 countries; 8 times: \$2,000/time	32,000		
Activity 3. Encourage routine and effective involvement of stakeholders in environmental and resource management and decision-making						
	publish newsletters of the project	contract 1.4				
	printing newsletters	Printing 1		5,000		
	regular stakeholders conference (1/yr)	meeting (1/yr)	2 countries; 4 times: \$2,000/time	16,000		



<b>OBJECTIVE IV Development of Regional Institutions and Capacities</b>						
<b>Activities Agreed</b>	<b>Actions to be taken</b>	<b>Types of Actions</b>	<b>Grouping Actions</b>			
<b>IVB Regional Coordination</b>						
Activity 1. Create a functioning regional coordination mechanism to carry out the YSLME Project						
	Programme Coordinator	171,919	180,515	189,541	191,364	200,932
	Economist	109,200	114,660	120,393	126,413	132,733
	Scientific Officer	109,200	114,660	120,393	126,413	132,733
	Public Advisor	80,000	84,000	88,200	92,610	97,241
	Local Staff at PCU:					
	Secretary	25,000	26,250	27,563	28,941	30,388
	Driver	17,500	18,375	19,294	20,258	21,271
	Administrative Assistant	29,000	30,450	31,973	33,571	35,250
	Administrative Officer	40,000	42,000	44,100	46,305	48,620
	Receptionist	17,500	18,375	19,294	20,258	21,271
	CEP Steering Committee/reviews	20,000	13,333	13,333	13,333	13,333
	Mid-term and final evaluation			20,000		20,000
	Travel/Int'l Expert	23,200	23,200	23,200	11,600	11,600
	Biannual Tri-part. Rev.		20,000			20,000
	Advertising CTA ToR	4,000				
	Interviews/Travel ( prospects)	20,000				
	Auditing and Evaluation		4,000			4,000
	Communications:pcu	12,000	12,000	12,000	6,000	6,000
	Publications:pcu	4,000	6,000	6,000	6,000	6,000
	Supplies:pcu	14,400	10,800	10,800	10,800	6,000
	Postage	500	500	500	500	500
	Operations:pcu	6,000	6,000	6,000	6,000	6,000
	PCU Travel	54,600	54,600	54,600	16,100	16,100
	Equipment:pcu	83,000	10,000	10,000	10,000	5,000
	Auto_maintenance at PCU	3,000	3,000	3,000	3,000	5,000
Activity 2. Prepare TDA						

OBJECTIVE IV Development of Regional Institutions and Capacities						
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions			
	Review preliminary TDA, and suggest improvements (consultant)	consultant 1.1	consultant 1.1-1.3 (2.5 w/m)	17,500		
	Discussing draft, and decide new format (WG meeting 1)	meeting 1.1	meeting 1.1-1.4	15,000		
	Gathering data & info from national review report on the project components (PCU)					
	Second draft of TDA (consultant)	consultant 1.2				
	2nd discussion on the draft (WG meeting 2)	meeting 2.1	meeting 2.1-2.3	12,500		
	Revise the TDA	consultant 1.3				
	Finalise TDA (WG meeting 3)	meeting 3.1	meeting 3.1-3.3	17,500		
	Printing the final TDA	Printing 2		3,000		
Activity 3. Prepare natl SAP.	Assess all national information & prepare for a framework of NYSAP (contract)	contract 2.1	contract 2.1-2.3	29,000		
	National meetings-1 on NYSAP	contract 2.2				
	Revise NYSAP	contract 2.3				
	Finalise NYSAP	meeting 4.1	meeting 4.1-4.2	17,500		
	Printing NYSAP	Printing 3		3,000		
Activity 4. Prepare Regional SAP	Review NYSAPs & identify regional priorities and actions (consultant)	Consultant 3.1	Consultant 3.1-3.4 (3 w/m)	21,000		
	Prepare a draft of regional SAP (consultant)	Consultant 3.2				
	Discuss the draft on the WG meeting 3	meeting 3.2				
	Revise the drft SAP, & prepare version #2	Consultant 3.3				

OBJECTIVE IV Development of Regional Institutions and Capacities						
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions			
	Discussing version #2, & finalise the regional SAP (WG meeting 4)	meeting 4.2				
	Revise the drft SAP, & prepare version #3	Consultant 3.4				
	Discussing version #2, & finalise the regional SAP (WG meeting 5)	meeting 5.1	meeting 5.1	17,500		
	Printing regional SAP	printing 4		3,000		
<b>IVC National Institutions</b>						
Activity 1. Review and assess national institutions to support YSLME						
	Contract to natl focal points (Contract)	contract 3.1	contract 3.1-3.3	35,000		
	Finalise the review report (WG meeting 2)	meeting 2.2				
Activity 2. Identify means to develop these national institutions into sustainable contributors to the YSLME						
	Enhance communications	16,800	16,800	16,800	16,800	
	Provision of necessary equipment	56,400	7,000	7,000	7,000	
	providetechnical trainings	60,000	60,000	20,000		
	Local_travel	7,080	7,080	7,080	7,080	
	local staff: coordination	89,400	93,870	98,564	51,746	
Action 3 Facilitate national institutions to be effective stewards of the YSLME.						
	PSC to discuss					
Action 4 Establish National Coordination Unit within existing framework to assure intersectoral coordination in TDA/NYSAP/SAP process						
	Carry out by National institutions	contract 3.2				

OBJECTIVE IV Development of Regional Institutions and Capacities						
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions			
Action 5 Develop proposals to strengthen national institutions to enhance their ability to contribute to environmental management and decision-making						
	Together with Action 3					
<b>IVD Financial Instruments</b>						
Activity 1. Review status and potential for financial sustainability of YSLME regional institutional framework						
	Contract to national focal point (contract)	<i>contract 3.3</i>				
	Discuss & finalise the review report (WG meeting 2)	<i>meeting 2.3</i>				
Activity 2. Provide training in environmental project identification and preparation						
	Identify the training needs (WG meeting 1)	<i>meeting 1.2</i>				
	Training #1 Project document preparation	<i>training 4</i>		20,000		
	Training #2 Fund raising	<i>training 5</i>		20,000		
Activity 3. Assist and encourage the continuation of the project preparation and feasibility studies for long-term environmental investment to implement the SAP and NYSAPs.						
	Prepare draft proposal (consultant)	<i>Consultant 5.1</i>	Consultant 5.1-5.2 (1.5 w/m)	10,500		
	PSC to discuss					
Activity 4. Provide matched fund for small grant project	Identify the topics of small grant project (PCU)					

OBJECTIVE IV Development of Regional Institutions and Capacities						
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions			
	Provide matched funds for the approved projects (contracts)	<i>Contract 4</i>				
	Matched grants	100,000	115,000	130,000	345,000	
	Administration	20,000	23,000	26,000	69,000	
Action 5 Provide funding for pre-feasibility studies of promising technologies and industries to help achieve the goals of the YSLME, to create an investment portfolio (Priority Investment Portfolio)					414,000	
	Prepare prefeasibility studies (consultant)	<i>Consultant 5.2</i>				
	discuss & finalise prefeasibility study(WG meeting 3)	<i>meeting 3.3</i>				
	Submit to PSC for approval					
	Demonstration projects (contracts)	<i>Contract 5</i>		1,450,000		
<b>IVE Data and Information Management</b>						
Activity 1. Determine regional data and information management capabilities.						
	Review regional data & info systems, i.e. regional data centre, NEAR-GOOS, NOWPAP DINRAC, (consultant)	<i>consultant 6.1</i>	consultant 6.1-6.2 (1 w/m)		7,000	
	Prepare a proposal for DIM (consultant)	<i>consultant 6.2</i>				
Activity 2. Develop an effective regional DIM strategy to help achieve the goals of the YSLME.						
	Discuss and approve DIM proposal (WG meeting 1)	<i>meeting 1.3</i>				
	Equipment	<i>Contract 6</i>			44,000	
	Training on DIM	<i>training 5</i>			20,000	

OBJECTIVE IV Development of Regional Institutions and Capacities						
Activities Agreed	Actions to be taken	Types of Actions	Grouping Actions			
	Operation of DIM					
Activity 3. Implement the regional DIM strategy, including equipment, facilities, and communications						
	To identify sustainable means for the DIM					
<b>IVF Public Awareness and Participation</b>						
Activity 1. Develop a public awareness campaign						
	Preparation of public awareness campaign (PCU)					
	Agree on the campaign (WG meeting 1)	<i>meeting 1.4</i>				
Activity 2. Demonstrate regional public awareness/participation campaign.						
	Organise public awareness conferences (contracts)	<i>Contract 7</i>	4 times \$ 2000/time	8,000		
	Preparation of public awareness materials (Contracts)	<i>Contract 8</i>		22,000		
	Produce project pins, mouse pads etc.	<i>Contract 9</i>		15,000		
	Public awareness training-twice		2 times	40,000		
Activity 3. Encourage ongoing public awareness and participation activities to help achieve the goals of the YSLME.						