



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

**First Session of the Project Phase 2 Working Group
For the UNDP/GEF Yellow Sea Project**
Dalian, China, 26-28 August 2008

Report of First Working Session

Background and Rationale

1. The “First Session of the Project Phase 2 Working Group” was organised from 26-28 August 2008 in Dalian, China, with the following objectives:
 - Prepare an activity list for implementing the Yellow Sea SAP;
 - Prepare associated financial requirements from GEF for implementing each activity;
 - Identify the co-financing resources for each activity from each participating country; and
 - Provide a list of expected outputs and outcomes from Phase 2 to be included in the PIF and the Phase 2 Project Proposal.
2. The working session was convened following the discussion and agreement at the 2nd Special Meeting of the PSC (8 May 2008), where the participating countries recognised the importance to start preparations for implementing the SAP, and recommended the establishment of a working group to carry out the required tasks for planning the project's next phase.

Opening of the Working Session

3. Mr. Yihang JIANG, Project Manager, opened the working session, and provided a brief history and rationale for having the working session, which is explained above. He also informed all members and participants of the working group's objectives and proposed a timeline to submit relevant documents to GEF in order for the PIF to be reviewed by GEF Council at the first Council Meeting in 2009.
4. Mr. Jiang further explained that a capacity building workshop to introduce the TDA and SAP concepts to DPRK experts and policy makers was already convened based on the decision from the 2nd Special PSC Meeting, and with the outcomes exceeding expectation. The workshop participants showed a strong interest in the project, and had very good understanding and prior study of the project's TDA and SAP. Furthermore, both documents have already been translated into Korean, at DPRK's own cost.
5. Mr. Sun-bae HONG, on behalf of the delegation from ROK, thanked the PMO for organising this event, and asked if the Secretariat could prepare a timetable for the working session's 3-day work.
6. On behalf of the Delegation from China, Mr. Fengkui LIANG stressed the importance of having this working session, and thanked the PMO for preparing all working documents. He also stated the necessity for maintaining the momentum of the project in order to achieve a next project phase.
7. On behalf of SHMA-DPRK, Mr. Chol NAM expressed his appreciation for inviting representatives from SHMA to the working session. He stressed the importance and interest of DPRK to join the project formally.
8. Following the opening remarks, all participants gave a self-introduction. The list of participants is attached as [Annex I](#).
9. Mr. Jiang facilitated the discussions and organization of the working session. The Working Session Programme is attached as [Annex II](#).

Introduction of the Purpose of Working Group

10. Ms. Connie CHIANG was invited to introduce the purpose of the working group, referring to Document UNDP/GEF/YS/P2WG.1/2. She explained what the working group should do at this working session, namely:
- i. draw up an activity list;
 - ii. list GEF requested costs for each activity;
 - iii. list the co-financing resources from each country and/or other sources for each activity; and
 - iv. provide a list of expected outputs and outcomes from Phase 2, to be included in the PIF and eventually, in the project proposal.

Working Procedure and Expected Outcomes from the Working Group

11. Ms. Chiang also explained Document UNDP/GEF/YS/P2WG.1/3, and the proposed working procedure for the session and the expected outcomes from the Working Group, as listed above.
12. Participants raised questions about the full project proposal to be developed in the future and the approval process of the PIF. The Secretariat duly informed the working group that if the PIF were to be approved, then a full project proposal would be prepared. Mr. Jiang reminded all participants that the PIF will require approval by relevant countries' GEF Focal Points before submission to the GEF. A letter of endorsement from countries' GEF focal point for eligibly-funded countries, i.e. China and DPRK, would be required, while the ROK GEF Focal Point would have to provide a letter of support showing co-financing resources.
13. A participant raised questions about the "legal characteristics" of the working group, and noting the fact that SAP has no legal binding commitment from governments other than a regional guideline. And the final decision on the outcomes from the working group should be made by each governments with reference to its own NSAP to be possibly established soon.

Working Session

14. Mr. Jiang referred participants to Document UNDP/GEF/YS/P2WG.1/4, and explained a proposed method to carry out the work ahead of the group. He emphasised that the Table of Activities included in the working documents were examples of possible activities to be implemented in the project's next phase.
15. Participants raised a number of questions about how to proceed. The discussion revolved mainly around how detailed a budget to show for each proposed activity, and whether national co-financing amounts should be shown. After some debate, it was agreed that national funding sources should be listed wherever possible, and that they should be shown as part of the working procedure in order to estimate the total budget. However, the total of all national funding sources will be shown in summary in the PIF. **Finally, it was agreed that all experts will provide their national co-financing amounts after returning to their respective countries and conferring with their governments. It was further agreed that the national co-financing amounts will be worked out before the second working session of the working group.**
16. Mr. Jiang reminded everyone that the co-financing amounts should be as follows:

- China - not less than 1 GEF:3 National, with a large portion to be in-cash contribution.
 - ROK – not less than China’s contribution.
 - DPRK – in-cash and in-kind contribution through the capacity building component; and co-financing ratio of 1:1 for other activities.
17. Following the clarifications to the questions raised, all participants separated into their expert working group(s) and began listing the proposed activities and required funding for activities. The group members are listed in [Annex III](#).
18. Upon return to the plenary, each group presented its proposed list of activities, cost estimates, and some groups were able to propose national funding amounts. The Table of Activities from each group is attached as [Annex IV](#).
19. Following the presentation of each group’s activity table, the discussion proceeded to how to package all the information into the PIF. Suggestions for the overall focus or theme included:
- governance actions;
 - ecosystem-based management and services listed in the SAP;
 - the major marine environment problems faced by the Yellow Sea;
 - regional co-ordination; and
 - sustainable development of the Yellow Sea’s resources.
20. After many discussions and suggestions, the working session agreed on a general outline to present the project next phase based on a combination of ecosystem carrying capacity, Yellow Sea Commission, governance issues, and capacity building. The outline is attached as [Annex V](#).
21. Following the request by the working session, **the Secretariat agreed to clean up the activity tables, and also provide a draft PIF to the group to review before the next working session in October 2008.**

Other Business

22. Participants did not raise any other issues to discuss.

Date and Place for the 2nd Session of Project Phase 2 Working Group

23. Following a lengthy discussion, and trying to accommodate everyone’s schedule, **the working group agreed to have the 2nd working session from 5-6 October 2008 in Shanghai, China.**

Closure of the Session

24. In closing, Mr. Liang and Mr. Hong thanked the PMO and local organisers for arranging the working session, mentioning that the outputs from the working group would help to complete the NSAPs. Mr. Jiang thanked all participants for their hard work.

Annex I

List of Participants

Members

Mr. CHUNG Suh-Yong

Assistant Professor
Division of International Studies
Korea University
5-1 Anam-dong Seonbuk-gu
Seoul 136-701
Republic of Korea
Tel: 82-2-3290-2424
Fax: 82-2-303-7838
E-mail: mahlerchung@korea.ac.kr;
mahlerchung@yahoo.com

Mr. JIANG Yihang

Project Manager
UNDP/GEF Yellow Sea Project
Korea Ocean Research and Development
Institute
1270 Sa-dong Sangnok-gu Ansan-si
Gyeonggi-do 426-744
Republic of Korea
Tel: 82-31-400-7825
Fax: 82-31-400-7826
E-mail: yihang@yslme.org

Mr. KIM Kwang Sok

Senior Official
Department of Oceanography
State Hydrometeorological Administration
(SHMA)
Oesongdong, Central District
Pyongyang
DPR of Korea
Tel: 85-2-381 4419
Fax: 85-2-381 4410
E-mail: shma@co.checin.com

Mr. NAM Chol

Director
Dalian Representative Office
State Hydrometeorological Administration
(SHMA) Representative in China
No.771, Huanghelu
Dalian, China
Tel: 86-411-8403 9230
Fax: 86-411-8403 9230
E-mail: nc-000@163.com

Mr. HONG Sun-Bae

Ministry of Land, Transport and Maritime
Affairs (MLTM)
Marine Environment Policy Division
2F, K-water, 188 Joongang-ro
Gwacheon City, Gyeonggi-do
Republic of Korea 427-100
Tel: 82-2-504-6747
Fax: 82-2-503-2070
E-mail: hong0610@mltm.go.kr

Mr. JIN Xianshi

Deputy Director-General
Director of Fishable Resources &
Ecosystem Management Division
Yellow Sea Fisheries Research Institute
106 Nanjing Road
Qingdao, Shandong, 266071
China
Tel: 86-532-584-9430/583-6344
Fax: 86-532-581-1514
E-mail: jin@ysfri.ac.cn

Mr. LIANG Fengkui

Director
Department of International Co-operation
State Oceanic Administration
1 Fuxingmenwai Avenue
Beijing 100860 China
Tel: 86-10-6801-9791
Fax: 86-10-6804-8051
E-mail: fkliang@soa.gov.cn

Ms. ROH Jaeok

Deputy Director
Ministry of Land, Transport and Maritime
Affairs (MLTM)
Marine Environment Policy Division
2F, K-water, 188 Joongang-ro
Gwacheon City, Gyeonggi-do
Republic of Korea 427-100
Tel: 82-2-504-6747
Fax: 82-2-503-2070
E-mail: jroh@mltm.go.kr

Mr. WEN Quan

Chief Scientist
SOA Key Lab of Coastal Ecosystem and
Environment Research
National Marine Environmental Monitoring
Center
42 Linghe Street
Dalian, Liaoning 116023
China
Tel: 86-411-8478-2522
Fax: 86-411-8478-2522
E-mail: qwen@nmemc.gov.cn

Mr. YOO Sinjae

Senior Research Scientist
Korea Ocean Research and Development
Institute
1270 Sa-dong Sangnok-gu Ansan-si
Gyeonggi-do 426-744
Republic of Korea
Tel: 82-31-400-6221
Fax: 82-31-408-5934
E-mail: sjyoo@kordi.re.kr

Ms. YEON Inja

Chief Scientist
West Sea Fisheries Research Institute
National Fisheries Research &
Development Institute (NFRDI)
707, Ulwang-dong, Jung-gu, Incheon
Republic of Korea 400-420
Tel: 82-32-745-0551
Fax: 82-32-745-0549
E-mail: ijyeon@nfrdi.re.kr

Mr. ZHU Mingyuan

Professor
First Institute of Oceanography, SOA
6 Xianxialing Road Hi-Tech Industrial Park
Qingdao, Shandong 266001
Tel: 86-532-8896-7447
Fax: 86-532-8896-7548
Mobile: 86-136-0898-3422
E-mail: myzhu@public.qd.sd.cn

Secretariat	
Ms. Connie CHIANG Environment Officer UNDP/GEF Yellow Sea Project Korea Ocean Research and Development Institute 1270 Sa-dong Sangnok-gu Ansan-si Gyeonggi-do 426-744 Republic of Korea Tel: 82-31-400-7833 Fax: 82-31-400-7826 E-mail: connie@yslme.org	Mr. Mark WALTON Environmental Specialist UNDP/GEF Yellow Sea Project Korea Ocean Research and Development Institute 1270 Sa-dong Sangnok-gu Ansan-si Gyeonggi-do 426-744 Republic of Korea Tel: 82-31-400-7832 Fax: 82-31-400-7826 E-mail: mark@yslme.org
Ms. Euidea YUN IT Specialist UNDP/GEF Yellow Sea Project Korea Ocean Research and Development Institute 1270 Sa-dong Sangnok-gu Ansan-si Gyeonggi-do 426-744 Republic of Korea Tel: 82-31-400-7830 Fax: 82-31-400-7826 E-mail: euidea@yslme.org	Ms. ZHANG Weiwei National Marine Environmental Monitoring Center 42 Linghe Street Dalian 116023 Tel: 86-411-8478-2732; 86-136-0426-3016 Fax: 86-411-8478-2586 E-mail: wwzhang@nmemc.gov.cn

Annex II
Workshop Programme

1. Opening of the Working Session
2. Introduction of the Purpose of Working Group
3. Working Procedure and Expected Outcomes from the Working Group
4. Working Session
5. Other Business
6. Date and Place for the 2nd Session of Project Phase 2 Working Group
7. Closure of the Session

Annex III

Members of Each Working Group

Provisioning Services:

Jin Xianshi
Yeon Inja
Mark Walton

Regulating Services:

Wen Quan
Connie Chiang
Zhang Weiwei

Supporting Services:

Yoo Sinjae
Zhu Mingyuan
Mark Walton – targets relating to biodiversity

Cultural Services:

Wen Quan
Connie Chiang

Governance:

Chung Suh Yong
Liang Fengkui
Hong Sun-bae
Roh Jae Ok

Capacity Building:

Yihang Jiang
Nam Chol
Kim Kwang Sok

Annex IV

Proposed Table of Activities from Each Group

Note: National funding sources are only estimates and will be updated after experts discuss with their respective government.

			Activities	Implementation	Budget				Remarks		
					GEF	TOTAL Nat'l	Others	Total			
Regulating Service	Target 4. Meeting international requirements on contaminants	MA 4-1: Conduct intensive monitoring and assessment	establish regional monitoring network based on any existing ones	harmonise regional methodology, consultant 2pm	16,000	-		16,000			
				working group develop regional monitoring programme, 2 sessions	20,000			20,000			
				enhance monitoring by using regional monitoring programme and implement regional monitoring programme by country	100,000						
				consultant for regional QA/QC & inter-calibration exercises, 1/yr*3	288,000			288,000			
				data & information exchange mechanism, including establish e-forum & 1 workshop	15,000	-		15,000			
				diagnostic strategy for ID sources & sinks of pollutants	8,000	-		8,000			
					working group to produce strategy	15,000			15,000		
				reporting environmental status & trends of Yellow Sea	consultant to update regional synthesis, 1pm	8,000	-		8,000		
					develop basin-wide strategy to control contaminants	consultant 2pm * 8000	16,000	-		16,000	
					evaluation of facilities and equipment to control/reduce discharge from industrial and municipal sources	national consultants		50,000		50,000	
				regional assessment and update of contaminant sources and fate	regional working group 2x to update sources and fate	30,000			30,000		
					monitoring sources and fate, 3 sites	400,000			400,000		
				develop economic instruments to reduce pollution	consultant to review existing instruments and give recommendations 1.5pm	12,000			12,000		
					implement pilot projects to apply economic instruments, 3 sites	40,000			40,000		
				develop regional protocol for dumping at sea	consultant review guidelines for selecting dumping sites, 2pm	16,000			16,000		
					harmonise assessment methods for dumping sites, working group	15,000	-		15,000		
				MA 4-3: Implementing MARPOL 1973/78 effectively	improve regional strategy for oil spill	working group to update strategy	15,000	-		15,000	
					joint exercises on implementing contingency plans	1 demonstration	200,000	100,000		300,000	
					improve management of ballast water to avoid introducing exotic species	site: demonstrate monitoring & assessment to improve management procedures	100,000	100,000		200,000	
					using alternative energy and technology transfer to reduce CO2 discharge from vessels	technology transfer from developed countries, pilot projects	50,000	100,000		150,000	

			Activities	Implementation	Budget				Remarks
					GEF	TOTAL Nat'l	Others	Total	
Regulating Service	Target 5. Reduction of total loading of nutrients from 2006 levels	MA 5-1: Control total loading from point sources (reduce 10% total nutrient loading)	improve control mechanism of pollution from point sources	consultant review & recommend 2pm * 8000	16,000	-		16,000	
			Support for pilot intensive monitoring of input sources and loads, incl. from sewage and aquaculture	3 pilot sites	100,000			100,000	
			Support to monitor & calculate nutrient loading in hot spots/ critical habitats	3 pilot projects for development of total quality control methodology, with best available techniques	100,000	600,000		700,000	
			develop wastewater treatment plan	working group review existing plans	15,000	-		15,000	
				improve existing waste treatment facilities & give recommendations to improve	15,000			15,000	
			implement improvement of wastewater & sewage treatment facilities	2 sites	100,000	500,000	100,000	700,000	WB, ADB
			Support for monitoring & reducing atm-based	1 site inst. Contract 2yrs monitoring	120,000	120,000		240,000	
			Support for monitoring, reducing, & improving fertiliser use	1 site inst. Contract 2yrs monitoring	75,000	225,000		300,000	
			Support for monitoring & reducing sea-based	1 site inst. Contract 2yrs monitoring	120,000	30,000		150,000	
			development of stormwater treatment system	consultant to give recommendations 2pm * 8000	16,000			16,000	
		Establish & implement programme to control total nutrient loading	national commitments		1,000,000		1,000,000		
		MA 5-2: Control total loading from non-point sources and sea-based sources	promote wetlands as nutrient sinks	develop regional strategy for using wetlands as nutrient sink, consultant 2pm	16,000	-		16,000	
				local govt officer's study tour to 1 site in China, 2 days/site, 6 pers/site	10,000			10,000	
			Create more wetlands as nutrient sink	national commitments				0	
			transfer new technology for treating nutrients in wastewater	1 pilot project	50,000	150,000		200,000	
			cost-effective and sustainable mechanism to treat municipal wastewater & sewage	1 consultant 2pm give regional recommendations 1 pilot project	16,000 25,000	- -		16,000 25,000	
		Governance Actions	establish mechanism for discussing regional level data exchange	working group to improve understanding of environmental capacity	15,000	-		15,000	
				working group promote best available techniques and new technology	15,000			15,000	
				experts exchange: exchange info on management of fertiliser use and control of sea-based sources of pollutants	15,000			15,000	
			Review environmental quality standards (3rd year)	1 consultant to review and recommend; workshop to transfer findings	23,000			23,000	
			Stakeholder workshop to transfer new findings	1 in-country / country		-		0	
			Evaluation of SAP and NSAP implementation	3 consultants x 1mth x 8000		-		0	
			Co-ordinating YSLME sub-commission to ensure SAP implementation	3 days, 5 yrs, 10 pers		-		0	
				-					
Project									
Total			2,226,000	8,125,000	100,000	5,201,000			

			Activities	Implementation	GEF	Budget			Remarks	
						TOTAL Nat'l	Others	Total		
Cultural Service	Target 6. Reduced standing stock of marine litter from current level	MA 6-1: Control source of litters and solid wastes	Waste management	regional review of current policies & regulations, consultant 2pm * 8000	16,000	-		16,000		
				national review of policies & regulations				-		
				improve municipal waste collection regulation & collection system (natl)					-	
			technologies for waste reduction, reuse, recovery	regional review of current technologies for waste reduction, reuse, recovery, consultant 2pm* 8000	16,000	-		16,000		
				recommend clean production technologies, consultant above				-		
				technology transfer from developed countries, 2 sites	60,000			60,000		
			recycling economy	recommendations & pilot projects for regional recycling economy, 3 sites	40,000	500,000		540,000		
			MA 6-2: Improve removal of marine litter	implement regional baseline survey and pilot monitoring programme on marine litter						
					working group for survey design	15,000			15,000	
					baseline survey, 1 cruise / city	200,000			200,000	
					develop coastal monitoring activities, consultant 1pm	8,000			8,000	
					pilot coastal waters monitoring, 3 sites	100,000			100,000	
					pilot beach monitoring, sites as above	20,000	50,000		70,000	
					assessment and dissemination of information to relevant agencies, organisations, e.g. NOWPAP	10,000			10,000	
									-	
				implementing programmes for cleaning marine litter						
					enhance public-private partnerships on reducing waste production and disposal, 3 sites	30,000			30,000	
					implement regular community-based approach for removing marine litter, 3 sites	30,000	50,000		80,000	
			MA 6-3: Increase public awareness of marine litter	marine litter included in school curriculum	develop and implement pilot programme for inclusion in school curriculum, natl		40,000		40,000	
				improve publicity of marine litter issues	support & continue efforts through YSP and other existing programmes	25,000	-		25,000	
	production of information packages	contract groups to design and distribute		30,000	-		30,000			

		Activities	Implementation	Budget				Remarks	
				GEF	TOTAL Nat'l	Others	Total		
Cultural Service	Target 7. Reduce contaminants, particularly in bathing beaches and other marine recreational waters, to nationally acceptable levels	MA7-1: Conduct regular monitoring, assessment and information dissemination particularly in bathing beaches and other recreational waters	Regional assessment of existing measures, including Harmonise measurement techniques	(1 consultant x 2 pers mths x 8000) + (1 reg'l mtg X 15,000)	31,000			31,000	
			Support for regular monitoring, info dissemination, and beach signage	1 site / cty	20,000	50,000	5,000	75,000	NOWPAP
			Review, develop, improve nationally accepted criteria/standards	1 consultant x 2mth x 8000	16,000	-	5,000	21,000	NOWPAP
			Implement monitoring and assessment programme using improved criteria/standards	1 site / cty	10,000	50,000		60,000	
		MA 7-2: Control pollution in bathing beaches and other marine recreational waters	Develop & test early warning system, reporting to relevant agencies	1 consultant 2pm per 1 site / cty	16,000	-		16,000	
			Improve and implement early warning system in rec. area	1 site / cty	20,000	50,000		70,000	
			Enforcement of pollution discharge in test areas	1 site / cty national sources		50,000		50,000	
		Governance Actions	Allocate funds for recycling enterprises	consultant recommend to include in govt policy for investment plans, natl incentives for industry participating in recycling enterprises, 3 sites		30,000		30,000	
			Start-up for local recycling enterprises	2 pilot projects @ 5,000each	10,000	30,000		40,000	
			Inclusion of envt. Awareness into nat'l plans	1 consultant per cty x 2mths, natl		30,000	5,000	35,000	NOWPAP
			Improve legislation governing sub-standard waters	1 consultant x 3mths natl		30,000		30,000	
			Harmonise international and regional guidelines on marine litter monitoring and assessment	1 consultant x 1mth x 8000	8,000			8,000	
			Co-ordinating YSLME sub-commission to ensure SAP implementation Stakeholder workshop to transfer new findings	3 days, 5 yrs, 10 pers 1 in-country / country			-		-
			Project						
			Total			731,000	2,820,000	15,000	1,736,000

			Activites	Implementation	GEF	Budget			Total new
						TOTAL Nat'l	Others	Total	
Provisioning Service	Target 1: 25-30% reduction in fishing effort	MA1-1: Control fishing boat numbers	Buy-Back of 25-30% of old fishing boats			-		-	
			Identification of boats	collect current existing national criteria & develop guidelines (consultant 2pm)	16,000	-		16,000	
			Buy back boats	Korea 42 million dollars /year*5yrs: China 30% total boats	-	275,000,000		275,000,000	
			Decommissioning	China & Korea		2,750,000		2,750,000	
			Institutional study on the effects of buy-back on the reduction of fishing effort and recovery of fishstocks.	Data collection, travel, data costs, monitoring		5,700,000		5,700,000	
			Cost-Benefit Analysis of boat buy-back	Consultant 2 sites*4 months*USD8000; reg. workshop 15,000	79,000	32,000		111,000	
			Fishing license			-		-	
			Improving licensing system	3 consultants*1 month* 8000+ 1reg workshop *15,000	39,000	15,000		54,000	39,000
			Issue & renew licenses	CA		2,725,000		2,725,000	
			Implementation of license system (enforcement & monitoring)	Demonstration at 3 sites*40,000	80,000			80,000	
			Provision of Alternative livelihood			-		-	
			"small loan" system	1 consultant month* 8000+ 2 nat'l workshops *15,000	23,000	15,000		38,000	
			Implementing "small loan"	CA		400,000		400,000	
			"tax free" scheme	1 consultant month* 8000+ 2 nat'l workshops *15,000	23,000	15,000		38,000	
			Increase Tourism opportunities	3 consultant month* 8000+ 3 training activities *15,000	69,000	-		69,000	
		Technical retraining programmes	Fisheries education centres and university and training center				-		
		MA1-2: Stop fishing in certain areas/ seasons	Closure of Fishing grounds				-		-
			Evaluation of the effectiveness of closure	2 consultants*1month(USD 8000)*2 countries	32,000		-		32,000
			Enforcement of Closure	CA		65,000,000		65,000,000	
			Public Awareness of benefits	3 national workshops* USD 15,000	30,000	15,000		45,000	
			Alternative livelihoods (temp provision)	Consultant 3 person months* USD 8000 + retraining for fishermen 3 countries * USD 15000	69,000		-		69,000
		MA 1-3: Monitor and assess stock fluctuations	Joint regional stock assessments				1,600,000		
			Joint regional stock assessments	Surveys USD320000*3 countries * 4yrs	3,840,000				
			Regional network for harmonization of methodology and discussion of stock assessment	Expert group *5years* USD 22,000	110,000		-		110,000
			Establishment of Regional Database for fisheries within YSLME database	Operational costs USD 5000 /yr*5 years + data assimilation; 3 consultants* 1 month*USD 8000	49,000		-		49,000
			Regional training	2 scientists*3 countries* 3 years* 1 month*USD6600	118,800		-		118,800
							-		-

				Budget						
		Activites	Implementation	GEF	TOTAL Nat'l	Others	Total	Total new		
Provisioning Service	Target 2 : Rebuilding of over-exploited fish stocks	MA2-1: Increase mesh size	Gear Selectivity and performance and fish behaviour Studies	Exchange of ideas to improve selectivity of gears*22,000	22,000	-	22,000			
			Improved enforcement of regulations	CA		-	-			
						-	-			
		MA 2-2: Enhance stocks	Restocking of depleted fish stocks				-	-		
			Increase production of healthy fry fish	CA			-	-		
			Release of H-R fish	CA			-	-		
			Monitoring of success	Demo. 2 sites*90000	90,000		-	90,000		
			Habitat Improvement				-	-		
			Improve techniques of artificial reefs construction	Exchanges of scientists*6*8000	48,000		-	48,000		
	Artificial Reefs deployment		CA			-	-			
	Improve techniques and implementation of sea grass/macroalgae replanting	1 regional Workshop*22000, CA	22,000			-	22,000			
		Monitoring of success	Demo. 2 sites*40000	80,000		-	80,000			
	MA 2-3: Improve fisheries management	Introduction of more scientific based management	1 regional symposium*50000+2national workshops	50,000		-	50,000			
	Target 3 : Improvement of mariculture techniques to reduce environmental stress	MA 3-1: Develop environment-friendly mariculture methods and technology	Develop regional guidelines for sustainable mariculture	(2 perons months X8,000 + 3 regional meetings x 22,000	60,000	22,000		82,000		
			Select 2 areas in each country for sustainable mariculture management	3 activities x 2 x 30,000	120,000	60,000		180,000		
			Support 2 sustainable mariculture in each country	2 activities x 3 countries x 90,000	396,000	198,000		594,000		
			Develop national management plan for sustainable mariculture	1 plan x 3 x 30,000	90,000	30,000		120,000		
		MA3-2: Reduce nutrient discharge	Establish monitoring network for mariculture areas	1 persons months X8,000 + 3 regional meetings x 22,000	52,000		22,000		74,000	
			2 monitoring activities in each country	2 activities x 3 x 30,000	100,000		80,000		180,000	
	Country training courses on methods for reducing discharge		3 Courses * 15,000	30,000		15,000		45,000		
MA 3-3: Control diseases effectively	Establish regional network for disease prevention and warning	2 persons months X8,000 + 3 regional meetings x 15,000	61,000		-		61,000			
	Improve capacity in disease diagnoses	3 regional training x 22,000	66,000		-		66,000			
	Enhance information sharing and exchange	3 person months x 8,000 + 3 workshops x 15,000	69,000		-		69,000			
	Project									
	Total			5,933,800	353,694,000	-	359,627,800			

			Budget				
			Activities	Implementation	GEF	TOTAL Nat'l	Others
Supporting Service	Target 8: Better understanding and prediction of ecosystem changes for adaptive management	MA 8-1: Assess and monitor the impacts of N/P/Si ratio change	Set up a regional monitoring system	Review and harmonize national methodologies for regional monitoring; see <i>Governance action</i>			
				Link existing national monitoring network; see <i>Governance action</i>			
			Monitor regional impacts	Conduct regular monitoring; operate linked national networks		-	
			Make regional assessment	Hold annual forums to conduct joint assessment; make policy-relevant recommendation; publish reports; 1 workshop/yr, USD15,000x5, consultant 1pm	115,000	-	
		MA 8-2: Assess and monitor the impacts of climate change	Set up a regional monitoring system	Create regional committee to coordinate monitoring and assessment.		-	
				Review and harmonize national methodologies for regional monitoring; see <i>Governance action</i>			
			Monitoring the impacts	Link existing national monitoring network; see <i>Governance action</i>		-	
			Make assessment	Conduct regular basin-scale monitoring			
		MA 8-3: Forecast ecosystem changes in the long-term scale	Make regional strategies for long-term ecosystem forecasts	establish expert group			
				Compare existing models; Devise strategies for integration of circulation-ecosystem model; workshop 15000; consultant 1pm	23,000		
			Conduct modeling activities	Develop regional circulation-ecosystem models			
				Develop regional scenarios; workshop 15000	15,000		
				Produce long-term forecasts; verify the results; workshop 25000; consultant 1pm	33,000		
				Disseminate forecasts using YSLME data server			
		MA 8-4: Monitor the transboundary impact of jellyfish blooms	Create regional jellyfish monitoring program	Create regional committee to coordinate monitoring and assessment.			
				develop national and regional monitoring methodologies of jellyfish blooms; see <i>Governance action</i>			
			Conduct regular jellyfish monitoring activities	Link and coordinate existing national HAB monitoring programs; see <i>Governance action</i>			
			Asses the status, trend and damage of jellyfish blooms	Conduct monitoring of jellyfish blooms			
		MA 8-5: Monitor HAB occurrences		Hold annual forums to conduct joint assessment; make policy-relevant recommendation; publish reports; 1 workshop/yr, USD25,000x5, consultant 1pm/yr			
			Create regional HAB monitoring program	Create regional committee to coordinate monitoring and assessment.			
				develop national and regional monitoring methodologies of HAB; see <i>Governance action</i>			
			Conduct regular HAB monitoring activities	Link and coordinate existing national HAB monitoring programs; see <i>Governance action</i>			
		MA 9-1: Establish and implement regional conservation plan to preserve biodiversity	Regional evaluation of implementation of CBD and other RAMSAR conventions	Conduct monitoring of jellyfish blooms			
			Implementation of recommendations in the form of a regional biodiversity plan	Hold annual forums to conduct joint assessment; make policy-relevant recommendation; publish reports			
establish expert group to help countries in meeting Ramsar obligations	6 person months* USD 8000 + travel 2 trips to 2 countries * USD 1000		34,000				
Establishment of 1 new nature reserve in each country and development of sustainable use policy	3 person months* USD 8000		16,000				
Monitoring of effectiveness of biodiversity plan at 2 demo site in each country	6 person months* USD 8000		32,000				
Regional biodiversity monitoring along the coast line	4 person months * USD 8000		16,000				
Regional workshops on sustainable use for reserve managers	3 countries* 2 survey/yr* 3 years * USD 35,000		420,000				
Periodic evaluation of the effectiveness of the Regional Biodiversity Plan	3 countries* 2 surveys* 300,000		0				
	2 regional meetings * 22,000		22,000				
	3 person months* USD 8000						

			Activities	Implementation	Budget			
					GEF	TOTAL Nat'l	Others	
Supporting Service	Target 10: Maintenance of habitats according to standards and regulations of 2007	MA 10-1: Develop regional guidelines for coastal habitat management	Identification of regionally agreed important habitats for biodiversity	Expert group discussion USD15000 & I CA				
			Analysis of country coastal management guidelines	3 Consultants* 1pm*USD 8000	8,000			
			Establish expert and manager group to identify regional guidelines	Expert Group discussion USD15000 & I consultant*1 pm * USD 8000	23,000			
		MA 10-2: Establish network of MPAs	Analysis of the linkages (both biological and human) between current MPAs	Consultant* 2 pm* USD8000	16,000			
			Establish network MPA's in participating countries					
			Establishment of regional and local Linkage of MPA's and NGO's and International organisations through Yellow Sea Partnership (YSP) programme					
			Exchange programme	6 conservation managers * travel (USD 600)& subsistence (USD1500) per yr	19,500			
			Management effectiveness	Consultant* 2 countries* 1 pm* 3 years* USD8000	24,000			
			Stakeholder meetings	1 Nat'l forums * 3 countries * 5 yrs* USD 15000	150,000			
			Capacity building/Regional training programmes	USD15000*3 countries* 5 yrs	150,000			
		MA Management Action 10-3: Control new coastal reclamation	Identification of 2007 reclamation plans in each country	3 Consultant*1 pm* *USD 8000	16,000			
			Improve enforcement of reclamation	National working group of experts				
			Regional monitoring network of NGOs/stakeholders that provide data on new reclamation to YSP website	15,000*3 countries* 5 yrs	150,000			
		MA 10-4: Promote public awareness of the benefits of biodiversity conservation	Sponsoring of network of NGOs to work together to promote Public Awareness	USD 60000 * 3 countries * 4 yrs	480,000			
			Small grants for Biodiversity promotion	USD 60000 * 3 countries * 4 yrs	480,000			
			Country Demonstration sites	USD 80,000 * 3 countries	160,000			
			Regional training of tourism advantages around demo sites for local stakeholders	USD 15000 * 3 countries * 4yrs	120,000			
			Regional training of managers in public awareness activities	USD 30000 * 3 countries	60,000			
			CBA of biodiversity conservation at demo sites	USD 30000 * 3 countries	60,000			
			YSP programme	USD 15,000 * 4 yrs	60,000			
		Target 11: Reduction of the risk of introduced species	MA 11-1: Control and monitor ballast water discharge	dealt in MA4-3				
			MA 11-2: Introduce precautionary approach and strict control of introduction of non-native species	Make regional guidelines	Conduct case studies of introduced species in aquaculture			
					Compare national regulations; Write guidelines for monitoring and quarantine procedures; consultant 1pm	8,000		
				Conduct regional monitoring	Conduct national monitoring and exchange information;			
			Governance Actions	Make assessment on the trend of the introduced species in the region	Hold annual forums to conduct joint assessment; publish reports; workshop 15,000/yr; consultant 1pm	115,000		
Establish a comprehensive regional monitoring system	Hold a conference to review and link existing monitoring network; workshop with participation of 50 regional and international experts; USD100,000			100,000				
Project Management			Develop regional monitoring strategies for N/P/Si changes, climate change, jellyfish blooms, and HAB; consultants 4pm	32,000				
	Total			3,122,500	0	0		

	Activities	implementation2	Implementation	Budget				Remarks	
				GEF	National	TOTAL Nat'l	Others		Total
Governance Actions	Institutional building					-			
	Establish YSLME Commission:					-			
	Organise steering committee meetings		5 meetings x 20,000	25,000	75,000	-		100,000	
	Organise sub-commission meetings		5 sub-commissions x 5 meetings x 20,000	125,000	375,000	-		500,000	
	Strengthening the participation of the member countries:	secondment of government officials develop exchange program to send government officials to the secretariat					-		
	Cost & effective operation	strengthening partnerships and develop joint program(s) to share available resources with existing regional institutions such as NOWPAP, PEMSEA, WESPAC, and etc.					-		
	IMCC & NWGs	develop the guidelines to manage the IMCC & NWGs	govt's own funding				-		
	NPC	NPC needs to become a member of YSLME Commission	12 months x 8,000 x 3 NPCs x 5 years	360,000	1,080,000	-		1,440,000	
	Legislation						-		
	Improve the effectiveness of legal instruments:						-		
	Develop regional guidelines for Code of Conduct Responsible Fisheries in YSLME context		2 person month x 8,000; implementation is under respective Services	4,000	12,000	-		16,000	This might go under Provisioning.
	Develop guidelines for matters not covered by UNCLOS, CBD, & Ramsar.	identify and develop the guidelines to deal with the matters not covered by UNCLOS, CBD & Ramsar.	2 person months x 8,000 x 3 conventions; implementation is under respective Services	12,000	36,000	-		48,000	
	harmonize domestic legislation	identify the gaps between the domestic and regional standards					-		
	information exchange on implementation on treaties and domestic legislation	develop a YSLME Clearing House					-		
	Partnership						-		
	Strengthening Partnerships with existing bilateral mechanisms						-		
	Strengthening partnerships with existing regional mechanisms	develop partnership mechanisms with PEAMSEA, NOWPAP, WESPAC, etc. to avoid duplication					-		
	Economic incentives						-		
	Integrate econ analysis into national workplan		govt's own funding				-		
	Establish microfinance schemes		2 sectors/industries x 60,000	30,000	90,000	-		120,000	This activity is in conjunction with mainly Provisioning and Regulating.
	Introduce preferential tax system		2 sectors/alternative livelihoods, income tax exemption, govt's contribution				-		
	Reg. co-operation & capacity building						-		
	Promote best practices:	identify best practices					-		
	Demonstration/ campaign		6 sites	144,000	432,000	-		576,000	
	Publication/website	translate into languages of participating countries	5000 x 5 yrs	6,250	18,750	-		25,000	
	Conference/workshop		2 meetings x 20,000	10,000	30,000	-		40,000	
	Encourage stakeholder participation	develop programs to ensure wider participation of stakeholders	in conjunction with best-practice promotion				-		
Project						-			
Total			716,250	2,148,750	0	0	2,865,000		

Activity				Implementation	Budget		
					GEF	nat'l total	Total
National Capacity	Enhance national Co-ordination	Continue inter-ministry Committee		2 co-ordinating meetings/year * 5 yrs=10 meetings *3000 * 2 countries	10,000	50,000	60,000
		Exchange experiences among the participating countries		2 visits		0	0
	Upgrade nat'l capacity in DPR Korea	Enhance nat'l infrastructure in marine environment protection	strengthen the National Commission for Environment Protection as inter-ministry mechanism	2 co-ordinating meetings/year * 5 yrs=10 meetings *3000	20,000	10,000	30,000
			Improve communication and co-ordination of nat'l agencies	2 training * 3000, operation: 3000	6,000	3,000	9,000
			Establish nat'l co-ordinating office (incl. Dalian office)	2 persons *600*60 months+furniture 4,000 *office rent 15000	53,000	38,000	91,000
		to formulate nat'l management plan	obtain necessary data & info for preparing national management plan	institutional contracts to collect data & info.	25,000	15,000	40,000
			Preparing the national management plan (Nat'l SAP)	Two nat'l experts consultation *3000	4,000	2,000	6,000
		enhance national capacity in understanding marine environment	Providing necessary equipment for marine environment research and monitoring	Investigation of requirements; preparing a list of required equipment; providing the equipments	600,000	0	600,000
			Exchange experts to gain updated knowledge on marine environment	exchange 30 scientists *80/day*60 + 30 travel *500	63,000	0	63,000
					781,000	118,000	899,000
		Strengthen participation in regional and intern'l programmes				0	
Stateholders Capacity						0	
Project						0	
Total					1,562,000	236,000	1,798,000

Annex V

Proposed Outline for Information to be Included in the PIF¹

1. Improving ECC:
 - Reduction fishing effort
 - Sustainable mariculture
 - Adaptive management incl. regional monitoring
 - Reducing pollution
 - Biodiversity conservation
2. YSLME Commission
3. Strengthening institutional structures
 - stakeholder participation
 - strengthening regional partnerships
 - financial sustainability mechanisms
 - legal instruments
4. Capacity building

¹ The YSLME PMO will work on providing more attractive terms for these topics, and present them to the 2nd Working Session of the Project Phase 2 Working Group.

List of Acronyms

DPRK	Democratic People's Republic of Korea
GEF	Global Environment Facility
NSAP	National Strategic Action Plan
PIF	Project Identification Form
PMO	Project Management Office
PSC	Project Steering Committee
ROK	Republic of Korea
SAP	Strategic Action Programme
SHMA	State Hydrometeorological Administration (DPRK)
TDA	Transboundary Diagnostic Analysis
UNDP	United Nations Development Programme
YSLME	Yellow Sea Large Marine Ecosystem