



**IMPLEMENTING THE STRATEGIC ACTION PROGRAMME FOR THE YELLOW SEA LARGE MARINE ECOSYSTEM: RESTORING
ECOSYSTEM GOODS AND SERVICES AND CONSOLIDATION OF A LONG-TERM REGIONAL ENVIRONMENTAL
GOVERNANCE FRAMEWORK
(UNDP/GEF YSLME Phase II Project)**

1st Meeting of Regional Working Group on Habitat
Songdo, Incheon, RO Korea, 5-6 September 2017

Draft UNDP/GEF YSLME Phase II Project Workplan 2017

Table 9: Draft UNDP/GEF YSLME Phase II Project Workplan 2017

Note: revised or new end-of-project targets, activities, timeframe and budget are marked in red; corrections made in response to comments from China on March 30 are marked in purple; corrections are marked in blue to make the workplan for 2017 more realistic.

DRAFT ANNUAL WORKPLAN FOR 2017

Project ID and Project Name: 00087001, Implementing the Strategic Action Programme for the Yellow Sea Large Marine Ecosystem: Restoring Ecosystem Goods and Services and Consolidation of a Long-term Regional Environmental Governance Framework

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET			
		2017								
Output/outcome indicators and annual indicator targets/ benchmarks (if applicable)	List all activities to be undertaken (including evaluations and publications etc.)	Q1	Q2	Q3	Q4		Source of Funds	COA	description	budget (USD)
Component 1: Ensuring sustainable regional and national cooperation for ecosystem based management, based on strengthened institutional structures and improved knowledge for decision making										
OUTCOME 1.1 Regional governance structure, the YSLME Commission established and functional, based on strengthened partnerships & regional co-ordination; wider stakeholder participation and enhanced public awareness.	Output 1.1.1 Regional agreement to establish the YSLME Commission, Management, Science and Technical Panel (MSTP) and Regional Working Group (RWGs); national and regional policies drafted and implemented									
	Activity 1: review, refine and adopt TORs of Interim Commission Council and subsidiary bodies (MSTP, RWGs, IMCCs, NCs, NWGs, UNOPS) and membership of ICC and subsidiary bodies (MSTP, RWGs, IMCC, NWGs); appoint NCs;					UNOPS	GEF	71200		0
								71200		0

<p>End of Project Target (2019):</p> <p>1), Functioning YSLME Commission, indicated by: (1) MOU or Joint Declaration signed on establishment of the YSLME Commission; (2) legal personality of YSLME commission or other arrangements established; (3) TDA and SAP revised and adopted as a subsidiary document of the MOU or joint Declaration; (4) Secretariat quality management system put in place</p> <p>2) All the Terms of Reference for the YSLME Commission and Subsidiary Bodies approved by all participating country Governments.</p> <p>Targets of 2017:</p> <p>1) TOR and membership, and rules of procedures of Interim Commission Council and subsidiary bodies (MSTP, RWGs, IMCCs and NWGs) adopted;</p>	<p>Activity 2: evaluate the NSAP implementation, update TDA and develop policy recommendations of SAP (2020-2030)</p>							71600		0
								75700		0
		<p>Activity 3: prepare, agree to and implement a roadmap for a sustainable regional mechanism for implementation of the SAP</p>						71200	10 days*\$400 (2 consultants)	4,000
		<p>Activity 4: Refine and adopt rules of procedure of Interim Commission Council</p>						71200		0
		<p>Activity 5: Recruit UNOPS staff, refine and adopt TOR</p>						71200		0
	<p>Activity 6. conduct inception workshop, 1st Interim Commission Council meeting and annual meetings of the Council, and publish proceedings of meetings</p>							71600	1st and 3rd MSTPs: 9 persons*\$300/day*4 days +\$350*9 persons; regular 2nd MSTP:9 persons*\$300/day*3 days +\$350*9 persons; Inception workshop: 4 resource persons*\$300/day*2 days +\$500*4 persons. Interim Commission Council: cofinanced	18,750
								74200	printing of publications	500
								72100	interpretation services	4,000
						UNOPS	GEF	75700	MSTP: \$30/day*2 days*25 persons (\$1,500); Inception workshop: 100 persons*1day*\$30 + \$2,000 for venue (\$5,000); Interim Commission Council: \$500 for venue + \$30*30 persons for lunch (\$1,400)	7,900

2) annual meetings of YICC, MSTP and RWGs and proceedings; 3) quality management system: management information system set up and used in daily work; UNOPS SOPs developed and in use;	Activity 7: conduct preparatory meeting for inception					71600	travel and DSA for 4 Chinese participants	4,500
	Activity 8: conduct annual meetings of MSTP and publish proceedings of meetings:					75700	\$30*20 persons*2 days + \$300 for snack	1,500
	Activity 9. conduct RWG meetings and prepare proceedings to review TORs, regional guidelines/strategies/plan, and progress reports as specified in component 2-4					71600	Each year: 9 persons*\$300/day*2 days +\$350*9 persons;	8,550
						74200	printing of publications	200
						75700	Each year: \$30/day *2 days *20 persons (\$1,200) + \$300 snacks + \$500 for venue	2,000
	Activity 10: identify, agree and establish legal personality or other arrangement of the YSLME Commission to enable it enter into agreements with other legal entities;					71600	Each year: \$300/day *2 days *3.5 persons *6 meetings (\$12,600) + \$350/travel *3.5 persons *6 meetings (\$7,350)	19,950
						74200	printing of publications	1,200
						75700	each year: \$30/day *2 days *10 persons *6 meetings (\$3,600) + \$300 snacks* 6 meetings (\$1,800) + \$500 for venue*6 meetings (\$3,000)	8,400
								0

[illegible]

IMCC every year and functioning coordination 3) NSAP and implementation plans adopted; and 4) NSAP implementation reports prepared and distributed in Interim Commission Council meetings in 2020 Target in 2017: 1) IMCC meeting held to approve Interim Commission Council membership, inception report and budget; 2) intersectoral management boards for demonstration sites established and operational	Activity 5: prepare NSAP implementation review reports and make strategic policy recommendations							71300		0
	subtotal									30,000
OUTCOME 1.3 Wider participation in SAP implementation fostered through capacity building and public awareness, based on strengthened Yellow Sea Partnership and wider stakeholder participation; improved environmental awareness; enhanced capacity to implement ecosystem-	Output 1.3.1 Agreements with partners on overall environment co-operation and management, relevant fishery management, marine habitat conservation and pollution reduction, at both national and regional levels; cross sector partnerships established and operational									
	Activity 1. Develop Regional and National Guidelines regarding the involvement of Stakeholder groups in the implementation of the Yellow Sea SAP management actions					UNOPS	GEF	71200		0
	Activity 2. Strengthening partnerships with existing regional mechanisms (NOWPAP, PEMSEA, IOC/WESTPAC, COBSEA, EAAFP, UNESCAP): Guideline development,							71200	40 days* \$400	0
								71600	travels	5,000
								74200	printing of knowledge product	500

<p>based management</p> <p>End of project target:</p> <p>1) YSLME Partnership guidelines prepared and agreed to guide the partnership development</p> <p>2) 40 MOUs and/or other collaborative arrangements with global, regional, national or local partners for capacity development, advocacy, knowledge management and programming for implementation of YSLME SAP in line with the goals of the YSLME Partnerships</p> <p>3) at least 6 collaborative activities with regional and bilateral partners;</p> <p>4) at least 10 training activities;</p> <p>5) training of at least 200 professionals and officials</p> <p>6) at least 15 public awareness initiatives organized</p> <p>7) interactive and visualized project website launched informing stakeholders of the status and trends of ecosystem carrying capacity</p>	regional agreements, regular meetings, & joint programmes							75700	joint activities including with PEMSEA in 2018 in EAS Congress	1,400
	<p>Activity 3. Strengthening partnerships with existing bilateral mechanisms: Joint activity & Regional workshop</p>					UNOPS	GEF	71600	17,500 for joint bilateral activities and \$15,000 for regional wkps	10,000
								75700	\$7,500 for joint activity and \$15,00 for regional workshops	7,500
								72100	several subcontracts on portal design and maintenance, cloud hosting services, hardware, software,	20,000
								71600	allowance for interns	4,000
	<p>Output 1.3.2 National public awareness in support of YSLME SAP achieved; data and information collected; jointly managed databases developed, publicly accessible information for implementing management plans at the regional, national and local levels</p>									
	<p>Activity 1: Produce project profile</p>					UNOPS	GEF	71300	8 working days * \$200	1,500
								74200	printing of publications	1,000
	<p>Activity 2: develop/refine YSLME strategy of public awareness and participation and conduct activities that lead to raising awareness of YSLME status and actions/behavior change among target stakeholders and visibility of YSLME</p>					UNOPS	GEF	72100	subcontract	20,000
	<p>Output 1.3.3 Transfer lessons, experiences and best practices between the local demonstration sites</p>									

8) YSLME internship program initiated and implemented to support knowledge capture and awareness raising activities targets for 2017 1) guidelines for partnership development prepared and adopted by Interim Commission Council; 2) information portal designed and project website operationalized; 3) regional communication strategy refined and at least two awareness activities conducted; 4) 2 training workshops conducted; 5) two exchange visits organized;	Activity 1. Exchange local government officials/experts for cross- learning of experiences of updated knowledge and good practices in the areas of IMTA, stock assessment, boat buy-back scheme, alternative livelihood, artificial wetland, PPP, recovery of fishery stocks, impact assessment of habitat modifications, assessment of impact of climate change on plankton communities, migration pattern of jelly fish.					UNOPS	GEF	71600	6 officials/experts*30 days*\$30/day	1,800
	Output 1.3.4 Training of at least 10 stakeholder groups on public participation on relevant management actions, in particular on fishery management, marine habitat conservation and economic assessment									
	Activity 1: conduct of 10 training workshops to 200 trainers/experts in collaboration with partners for up to 10 stakeholder groups on ecosystem-based management, social safeguards, environmental treaties and agreements, carrying capacity, regional cooperation, CBA and valuation such as benefits of IMTA, impacts of coastal and marine habitat modifications, habitat-based and food-chain based approaches for habitat conservation, economic valuation, and MPA networking					UNOPS	GEF	72100		0
								71600		0
								75700		0
Total										72,700
OUTCOME 1.4 Improved compliance with regional and international treaties, agreements and guidelines	Outputs 1.4.1 Enhanced national and regional legal instruments to comply with regional & global treaties, agreements and guidelines									
end of project targets: 1) Code of Conduct for Responsible Fisheries	Activity 1. review and identify gaps between domestic and regional and global standards, and to make legal recommendation to harmonize domestic legislation.					UNOPS	GEF	71200	2 consultants from two countries, 40 days* \$400/day	5,000

adapted as regional guidelines agreed by China and RO Korea 2) new/revision of existing laws included in legislative agenda End of 2017 target: 1) gaps in domestic legislation to implement YSLME SAP identified 2) methodologies and approaches to develop regional guidelines incorporating Code of Conduct for Responsible Fisheries agreed by RWG-F	Activity 2. Develop regional guidelines for incorporating Code of Conduct for Responsible Fisheries in YSLME context:							72100	subcontract	4,000			
								71600	\$300/day *2 days *3.5 persons *4 meetings (\$8,400) + \$350/travel *3.5 persons *4 meetings (\$4,900)	6,650			
								75700	\$30/day *2 days *10 persons *4 meetings (\$2,400) + \$300 snacks* 4 meetings (\$1,200)	1,800			
	Activity 3. Technical assistance to develop national standards and management measures to comply with regional guidelines of Code of Conduct for Responsible Fisheries, and trainings							72100		0			
								71600		0			
								75700		0			
	subtotal										17,450		
	OUTCOME 1.5 Sustainable financing for regional collaboration on ecosystem-based management secured, based on cost-efficient and ecologically-effective actions end of project targets: 1) financing agreement for YSLME Commission between countries reached for another 5 years from 2020 on, and government	Outputs 1.5.1 Periodic economic assessments of costs and ecological effectiveness							UNOPS	GEF			
		Activity 1. conduct biennial estimations of SAP Implementation costs and benefits analysis									71200		0
Activity 2: conduct pilot CBA and valuation studies of IMTA demonstration, impacts of modification of marine habitats; and effectiveness of fishing both in areas and in time						72100	subcontracts	7,000					
Activity 3: publication of three study reports in English						74200		0					
Activity 4. mid-term and terminal evaluation						71200		0					

								72300		
								72400		
								72500		
								72800		
								73100		
								73400		
								74200		3,400
								74500		
								74700		
								75700		30,500
COMPONENT 1 SUBTOTAL										299,020
COMPONENT 2. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO PROVISIONING SERVICES										
OUTCOME 2.1 Recovery of depleted fish stocks as shown by increasing mean trophic level	Output 2.1.1 Reduction of fishing by around 10% in demonstration sites through e.g. boat buy-back scheme over the duration of the project.									
End of project target: 1) 10% reduction in fishing boats and horse power in YS; 2) livelihoods of affected fisher folks maintained at	Activity 1. Review current national criteria and develop guidelines for vessel selection					UNOPS	GEF	71200	20 days* \$400/day	8,000
								71600	\$300/day *2 days *6 persons (\$3,600) + \$350/travel *6 persons (\$2,100)	5,700
								75700	\$30/day *2 days *20 persons (\$1,200) + \$300 snacks	1,500

pre-buy-back scheme level or increased at 2 demonstration sites	Activity 2. Assess socio-economic implications of buy-back schemes at two demonstration sites (one site each in China and RO Korea)							72100	subcontract	15,000			
								71300	report editing and layout	0			
								74200	printing of report	0			
								72100	subcontract	20,000			
	Activity 3. assess effectiveness of license system (legal and policy adequacy, institutional capacity, individual capacity, availability of capacity, fish landing over years) and recommendations for improvement of licensing system							71600		0			
											75700		0
	Output 2.1.2 Provision of alternative livelihoods to fisher folks taking into account the contribution of women												
target for 2018: 1) licensing system review report; 2) symposium on fishery management (licensing) organized and proceeding published; 3) regional workshop on livelihood development of fishermen conducted and proceeding published	Activity 1. identify possible compensation schemes and alternative livelihoods in demonstration sites;					UNOPS	GEF	71200	20 days * \$400/day	8,000			
	Activity 2. design and test microfinance and tax rebate for alternative livelihoods for demonstration sites							71600	\$150/day *10 days *3 persons (\$4,500) + \$500/travel *3 persons (\$1,500)	6,000			
								75700	three meetings	1,500			
	Activity 3. conduct national and regional experience sharing workshops on income generation from tourism and other opportunities							71600		0			
								75700		0			
								74200		0			
	Subtotal											65,700	

<p>OUTCOME 2.2 enhanced fish stocks through re-stocking and habitat improvementend of project target:1) 5% improvements in standing stock and CPUE in 3 demo sites;2) future management decisions on restocking based on effectiveness2017 targets:1) 1 RWG meeting held; 2) methodologies and guidelines in stock assessment agreed 3) 1 regional training on stock assessment conducted;4) national science-based workshop conducted and proceeding published;5) baseline assessment of demo sites completed</p>	Output 2.2.1 Science-based management of fisheries									
	Activity 1. Regional training in stock assessment and replenishment					UNOPS	GEF	71200	1 expert*2 countries*2 training*5 days*\$400/day	4,000
								71600	\$300*2 person*4 days*2 wkps (\$4,800) + \$350/travel *2 experts * 2 trainings (\$1,400)	3,100
								75700	\$30/day*3days*20 persons*2 wkps	1,800
	Activity 2. implement national strategy and participation to increase public Awareness of benefits of ecosystem-based fishery management and assess impact of awareness programs							72100		0
	Activity 3. regional networking and harmonization of methodology of stock assessment							71600	RWG-F and RWG-M travel in three years	8,000
								75700	RWG-F and RWG-M workshops	4,000
	Activity 4: Technical assistance to improve techniques of replanting of sea grass/macroalgae							72100	subcontract	10,000
								74200	printing of publication	0
	Activity 5. Joint study of fish behavior/gear selectivity							71600	2 scientists*2 countries*10 days	7,500
	Activity 6. study visit to improve techniques of artificial reefs construction and placement							71600	4 scientists * 3 days	6,000
								74200		0
	Activity 7: organize national workshop on science-based fishery management							71600		0
								71600		0

	Activity 8. International experience sharing on science-based fishery management							75700		0
	Activity 9. Monitoring of implementation results in three demo sites							72100	subcontract, to be combined into one contract on monitoring	20,000
	Activity 10: joint assessment of the effectiveness of closure and buy-back scheme							72100	subcontract	20,000
	Subtotal									84,400
OUTCOME 2.3: Enhanced and sustainable mariculture production, by increasing production per unit area as means to ease pressure on capture fisheries end of project target: 1) 5% reduction of contaminants from mariculture in demo sites; 2) 10% increase in production per unit area; 3) 5% reduction of nutrients and other discharges from mariculture installations 2007 targets: 1) suitable areas for IMTA mapped and environmental and social economic benefits assessed;	Output 2.3.1 Widespread practice of sustainable mariculture, where appropriate, increasing productivity and reducing pollution.									
	Activity 1. Develop regional guidelines for IMTA, including nutrient reduction and disease diagnosis, prevention and warning					UNOPS	GEF	71200	40 days* \$400/day	6,000
								71600	\$300*2 experts*2 days*2 wkps (\$2,400)+ \$350/travel *2 experts * 2 meetings (\$1,400)	3,800
								75700	\$30/day*2days*10 experts*2 meetings + venue(\$500)	1,450
	Activity 2. study visit to improve capacity in disease diagnoses:					UNOPS	GEF	71600	3 experts from 2 countries	6,000
	Activity 3: Develop BMP for IMTA							72100	subcontract	5,000
	Activity 4: survey of coastal areas suitable for operation of IMTA, and economic analysis of benefits for replication of IMTA across YSLME and China							72100		0
	Activity 5. Develop national plan to promote IMTA					UNOPS	GEF	72100		0
	Activity 6. implement national strategy to increase public awareness of benefits of ecosystem-based fishery management and IMTA							72100		0

2) IMTA training module prepared;	Output 2.3.2 Adoption of integrated multi-trophic aquaculture (IMTA) where appropriate									
	Activity 1. prepare an IMTA training module					UNOPS	GEF	71600	\$300*4 experts*2 days*2 wkps (\$4,800)+ \$350/travel *4 experts * 2 meetings (\$2,800)	7,600
								75700	\$30/day*2days*6 experts*2 meetings	720
								74200		0
	Activity 2: Conduct IMTA training workshop in collaboration with IW:Learn							72100		0
								71600		0
								75700		0
	Activity 3: support to demonstrate IMTA in three sites							72100	subcontract	20,000
								72200	monitoring equipment	20,000
	Activity 4. knowledge sharing on IMTA and replication elsewhere							71600		0
								75700		0
								74200		0
	Subtotal									
	IICA (Technical Assistance)					UNNOPS	GEF	71200		60,000
	IICA (Project Negotiation and coordination)							71200		15,000
	LICA (Technical Assistance)							71300		10,000
	LICA (Project Negotiation and coordination)							71300		0
	Staff Travel Cost							71600		20,000
								71200		101,000

COMPONENT 2: subtotal by COA								71300		10,000
								71600		73,700
								72100		110,000
								72200		20,000
								72300		
								72400		
								72500		
								72800		
								73100		
								73400		
								74200		0
								74500		
								74700		
								75700		10,970
Component 2 subtotal										325,670
COMPONENT 3: IMPROVING ECOSYSTEM CARRYING REGULATING AND CULTURAL SERVICES										
OUTCOME 3.1 Ecosystem health improved through a reduction in pollutant	Output 3.1.1 Reduced pollutant levels by enforcement and control in demonstration sites									
	Activity 1. Establish regional pollution monitoring guideline, environmental quality					UNOPS	GEF	71200	40 days*\$400/day	16,000
								71600	RWG-P meetings	7,000

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data and information on atmosphere-based, sea-based and agriculture-based pollutants	Activity 1: Diagnostic analysis of ID sources & sinks of pollutants, review available data & info, report environmental status and trends of Yellow Sea, and identify gaps and explore mechanisms for data and information sharing between the two countries					UNOPS	GEF	71200	20 days*\$400/day	6,000
								71600	3 days*4 persons*\$300/day *3 workshops +\$350/travel *4 persons*3 workshops	5,000
								75700	\$30/day*2 days*20 persons *3 workshops	1,200
	Activity 2. Support for monitoring and acquisition of data for sharing on pollutants from atmosphere-based sources					UNOPS	GEF	72100	subcontract	10,000
	Activity 3. Support for monitoring and data acquisition for sharing on fertilizer use							72100	subcontract	10,000
	Activity 4. Support for monitoring and data acquisition for sharing from sea-based sources:							72100	subcontract	10,000
	Activity 5: support production of data products of yellow sea agreed by two countries							72100	subcontract	500
	Activity 6: collaborative arrangement with other organizations in marine environment, e.g. NEAR-GOOS, Data and information system of UNEP/NOWPAP to improve understanding of YSLME					UNOPS	GEF	71600	3 days*2 persons*\$300/day *3 workshops +\$350/travel *2 persons*3 workshops	2,500
	subtotal									124,700
OUTCOME 3.2 Wider application of pollution-reduction techniques piloted at demonstration sites	Output 3.2.1. New and innovative techniques for pollution reduction (e.g. artificial wetlands and habitats) applied at demonstration sites									
End of project target:	Activity 1. Develop regional strategy for using wetlands as nutrient sink					UNOPS	GEF	71200	20 days*\$400/day	4,000
	Activity 2. Cost-effective and sustainable mechanism to treat municipal wastewater &							71200	20 days*\$400/day	8,000

1) 3 nutrient reduction demonstration projects invested by 3 local governments using wetland regulating services; target in 2017 1) MOU signed between UNOPS and three cities/sites 2) synthesis report of good practices of using wetland regulating services to rehabilitate river basin and coastal environments 3) increased knowledge in use of regulating services of wetland habitats by planners and investors in demonstration sites;	sewage: good practices and experience sharing and learning							71600	study visits of 6 officials each from 3 sites in China to Incheon and Ansan, RO Korea and Xiamen	4,000
	Activity 3: technical support to design wetland habitats to achieve blue bay in three pilot sites in China and application of clean production technologies and relevant technology transfer							72100	subcontract	100,000
	Activity 4. prepare a case study and share experiences in using wetland to treat nutrients in wastewater							71300		0
								74200		0
	subtotal									
OUTCOME 3.3 Strengthened legal and regulatory processes to control pollution end of project target: 1) agreed guidelines for microplastics monitoring and assessment by China and RO Korea; 2) new financial and economic incentives and	Output 3.3.1 Strengthened legal instruments and better regulatory processes to control pollution									
	Activity 1. review of policies and regulations in China and RO Korea dealing with pollution control and assess compliance with UNCLOS, the Future We Want, multi-lateral environmental agreements and programmes ratified by both countries, and prioritize legal and regulatory reforms in both countries					UNOPS	GEF	71200	20 days *\$400/day	4,000
								74200		0
									71200	20 days *\$400/day

regulatory measures adopted in coastal cities in support of recycling economy 3) number of new provincial regulations to improve water quality in Shandong, Jiangsu and Liaoning provinces 4) new economically profitable business developed from waste reuse and recycling 2017 target: 1) waste management policy and good practices review report drafted; 2) waste reduction, reuse and recovery technologies review report drafted;	Activity 2. review of international and regional instruments and policies on waste management, guidelines on marine litter monitoring and assessment, and develop a harmonized regional microplastics monitoring and assessment guidelines							71600		0
								75700		0
	Activity 3. Review technologies for waste reduction, reuse, recovery, and economic studies on recycling uses							71200	20 days *\$400/day	8,000
								74200		0
	Activity 4. support to develop regulatory measures for marine litter monitoring, disposal, handling, reuse, recycle in pilot province or city of Yellow Sea to enable investment on recycling economies.							72100	subcontract	20,000
						UNOPS	GEF	71600		0
								75700		0
								72100		0
	Activity 5. support to two pilot projects on recycling economies									
	subtotal									38,000
OUTCOME 3.4 Marine litter controlled at selected locations end of project target: 1) Regional Guidelines on	Output 3.4.1 Procedures in place to control and remove marine litter at demonstration sites									
	Activity 1. Regional review of existing policies and regulations regarding solid waste					UNOPS	GEF	72100	subcontract	8,000
								71600		0
								75700		0

<p>control of marine litter based on those initiated by NOWPAP produced and adopted for use in Yellow Sea;</p> <p>2) Established regional database in the first year, and significant reduction in the quantities of marine litter at selected beach locations</p> <p>2017 target:</p> <p>1) report on marine litter status in coastal areas of YS published</p> <p>2) warning system designed and in use in pilot site</p> <p>3) one awareness program of marine litter conducted in pilot sites;</p> <p>4) demonstration sites/projects/stakeholder group selected and program designed</p>	disposal as well as technologies for reducing production including recycling opportunities							74200		0
	Activity 2. Develop & test monitoring (early warning) system, and conduct a regional baseline survey of marine litter in collaboration with other relevant organizations							71200	20 days*\$400/day	8,000
	Activity 3. demonstration projects to implement programmes for cleaning marine litter through PPP							72100		0
	Activity 4: implement regular community-based approach for reducing marine litter							72100		0
								71600		0
	Activity 5. Implement National Strategy for Awareness and Participation: production of information packages and outreach activities to raise awareness of responsible solid waste responsible disposal and beach clean-up campaigns (combined with Activity 2 of output 1.3.2 in contracting)							72100		0
	Activity 6. support to start-up for local recycling enterprises					UNOPS	GEF	72100		0
	subtotal									16,000
	IICA (Technical Assistance):					UNOPS	GEF	71200		70,000
	IICA (Project Negotiation and coordination):							71200		10,000
	LICA (Technical Assistance):							71300		0
	LICA (Project Negotiation and coordination):							71300		0
	Staff Travel Cost:							71600		15,000

<p>impacts of reclamation</p> <p>End of project target: 1) areas of critical habitats maintained at baseline level; 2) impacts of reclamation prepared in 2 demo sites; 3) YSLME Biodiversity Conservation Plan adopted and management guidelines and actions integrated into sectoral plans;</p> <p>2017 target: 1) consensus reached on YSLME Biodiversity Conservation Plan: habitat, species, priorities and actions;</p>	<p>Activity 1. conduct rapid assessment of coastal and marine habitats and species of critical global and regional significance and prepare the YSLME Biodiversity Conservation Plan in implementation of CBD, Ramsar and other conventions</p>					UNOPS	GEF	71200	40 days*\$400/day	16,000
								71600	2 days*4 persons*\$300/day *1 workshops +\$350/travel *4 persons*1 workshop	3,800
								75700	\$30/day*2 days*20 persons *1 workshop	1,200
								74200	printing of publication	500
	<p>Activity 2: identify approved reclamation up to 2015 in each country, and any further reclamation from 2016 on</p>							71200	20 days*\$400/day	3,000
	<p>Activity 3: harmonize valuation methodologies, standards, and guidelines for evaluation of the effectiveness and impact of ecosystem-based restoration project</p>							71200	20 days*\$400/day	8,000
	<p>Activity 4: conduct regional and national workshops to share experience and good practice of restoration projects including valuation methodologies, standards and guidelines</p>							71600	one regional and 3 national workshops: 2 days*4 persons*\$300/day *4 workshops +\$350/travel *4 persons*4 workshop	3,800
								75700	\$30/day*2 days*20 persons *4 workshop	1,200
	<p>Activity 5. Develop strategies and governance mechanisms to achieve regional habitat and species targets at 2 demonstration sites, including assessment of impacts of modifications of areas of critical habitats and monitoring the effectiveness of management plans.</p>							72100	subcontracts	20,000
	<p>Activity 6. Regional evaluation of implementation of CBD and RAMSAR</p>							72100	subcontracts	0
								71600		0

	convention and country reports within the YSLME:							75700		0
								74200		0
	subtotal									57,500
OUTCOME 4.2: MPA Network strengthened in the Yellow Sea	Output 4.2.1 MPA networks strengthened in the YSLME									
<p>end of project target: 1) the planned expansion of the MPA system currently does take into account ecological connectivity (measured by use of developed connectivity tool kit or other means) 2) 10% increase in METT scores of demonstration MPAs; 3) increase to 3% total areas as MPAs.</p> <p>2017 targets: 1) consensus on assessment scope and methodologies of coastal and marine habitat and species; 2) survey, data collection</p>	Activity 1: review and agree on assessment scopes and methodologies					UNOPS	GEF	71600	2 days*4 persons*\$300/day *1 workshops +\$350/travel *4 persons*1 workshop	3,800
								75700	\$30/day*2 days*20 persons *1 workshop	1,200
	Activity 2. Analysis of country coastal management guidelines, identification of conservation areas according to planning zones							72100	subcontract	15,000
	Activity 3: survey and produce overlays to analyze gaps and conservation needs of critical species and habitats (i.e. seal, migratory birds, fish spawning and nursery, cold water mass, etc.) and make recommendations on new MPAs							72100	subcontract	90,000
	Activity 4: conduct regional training seminars focusing on enhancing connectivity in MPA network, (2 in China and 1 in RO Korea)							71200	training module preparation and conduct of training: 3 trainers*5 days/each*3 trainings*\$400	6,000
								71600		0
						UNOPS	GEF	75700		0

and sharing, and gap analysis plan agreed and implemented 3) one training workshop conducted; 4, cross-site experience sharing organized and conducted;	Activity 5: technical assistance to revise/update the MPA development tools (such as management plan/ zoning plan) and implementation for increased connectivity and effectiveness in selected MPAs							72100		0
	Activity 6: YSLME MPA annual meeting for development of a 5-year workplan for YSLME MPA Network and reporting implementation progress and cross-MPA learning and review of management effectiveness							71600	2 days*4 persons*\$300/day *3 workshops +\$350/travel *4 persons*3 workshop	3,800
								75700	\$30/day*2 days*20 persons *3 workshop	1,200
	subtotal									121,000
OUTCOME 4.3: Adaptive Management mainstreamed to enhance the resilience of the YSLME and reduce the vulnerability of coastal communities to climate change impacts on ecosystem processes and other threats identified in the TDA and SAP End of project target: 1, CC adaptation incorporated in regional strategies in response to changing characteristics of YSCWM and structured	Output 4.3.1 Regional strategies adopted and goals agreed; site-based Integrated Coastal Management (ICM) plans enhancing climate resilience, in place for selected sites in YSLME; conservation areas and habitats for migratory species identified									
	Activity 1: stock-taking of vulnerabilities of coastal communities and ecosystem services in YSLME to impact of climate change					UNOPS	GEF	71200	20 days*\$400/day	8,000
	Activity 2: prepare communication package to raise awareness of vulnerabilities to impact of climate change							72100		0
	Activity 3: monitoring and studies of relationships between the changes in sea surface temperature and characteristics of YSCWM and structure of plankton communities and development of regional strategy for adaptive management							72100	subcontract	30,000
								71600	2 days*4 persons*\$300/day *2 workshops +\$350/travel *4 persons*2 workshop	3,800
								75700	\$30/day*2 days*20 persons *2 workshop	1,200

<p>plankton communities</p> <p>2) 2 coastal ICM model framework plans in coastal provinces and cities incorporate CC adaptation to improve climate resilience</p> <p>2017 targets:</p> <p>1) improved understanding and awareness of climate change implications on YSLME at national, subnational and community levels</p> <p>2) one training course on cc adaptation conducted;</p>	<p>Activity 4: workshops/training programs on climate change and its impact on coastal and marine ecosystem services and adaptation</p>							71200		0
								71600		0
								75700		0
	<p>Activity 5: develop CC adaptation ICM model framework plan or strategic framework plan for 2 coastal cities and provinces</p>					UNOPS	GEF	72100		0
	<p>Activity 6: experience sharing and dissemination</p>							71600		0
								75700		0
	subtotal									43,000
OUTCOME 4.4	Output 4.4.1 Public awareness of Yellow Sea environmental problems enhanced; strong local support for and awareness of demonstration activities									
<p>Application of ecosystem-based community management (EBCM)</p> <p>preparing risk management plans to address climate variability and coastal disasters</p> <p>end of project targets:</p> <p>1) improved awareness, knowledge, participation and preparedness to impact of climate change at</p>	<p>Activity 1. design and implement a small grant program to support NGOs and community-based organizations in conducting participatory adaptation planning, preparedness and management, awareness raising for implementation of YSLME SAP; review of SGP and award criteria, and M&E system</p>					UNOPS	GEF	71200	20 days* \$400/day	8,000
								72100	grants	40,000

community levels in YSLME region; 2) agreed number of cruises and parameters for the regional monitoring network established and data shared regionally via the project website 3) regular LME-wide assessments; enhanced information exchange; periodic scenarios of ecosystem change 4) 12 training modules prepared for increased knowledge base and critical mass of expertise on EBM for dissemination and transfer at local levels;	Activity 2: implement the SGP and conduct M&E, communication and other management activities.							71600	monitoring visits	3,000
	Output 4.4.2 Established monitoring network; regular basin-wide assessments; enhanced information exchange; periodic scenarios of ecosystem change; allocation of 1% of project budget for IWLEARN activities									
targets for 2017: 1) SGP launched and first group of projects awarded; 2) regional strategies for ecosystem forecast, modelling and scenario analysis agreed; 3) YSLME EBM training modules agreed and under preparation by joint task forces as a compliment to initiatives of IW:Learn	Activity 1. Make regional assessment (including trend of introduced species in the region) and make policy-relevant recommendations					UNOPS	GEF	72100	subcontract	20,000
								71600		0
								75700		0
								74200		0
	Activity 2. develop regional strategies for long-term ecosystem forecasts, and conduct modelling and scenario analysis and sharing of estuary data							71200	40 days*\$400/day	8,000
								71600		0
								75700		0
	Activity 3. Hold a conference to review and link existing monitoring network; workshop with participation of 50 regional and international experts;							71600		0
						75700		0		
	Activity 4. Create regional jellyfish monitoring program: Create regional committee to coordinate monitoring, assessment and data sharing, and develop national and regional monitoring methodologies of jellyfish booms					UNOPS	GEF	74200		0
								72100	subcontract	10,000
								71600		0
					75700				0	
	Activity 5. Create regional HAB (including macro-algae) monitoring program: Create regional committee to coordinate monitoring, assessment and data sharing. Combine with jellyfish committee develop national and regional monitoring methodologies of HAB;							72100		10000
								71600		0
								75700		0
	Activity 6. Establish a comprehensive regional monitoring system: Develop regional							72100		8000
					71600				0	

	monitoring strategies for N/P/Si changes, climate change, jellyfish blooms, and HAB						75700		0
	Activity 7: Prepare 12 training modules on ecosystem-based management in LME, 1) EBM in LME: conceptualization, 2) ecosystem carrying capacity - fish restocking; 3) ecosystem carrying capacity - IMTA; 4) ecosystem carrying capacity - habitat-based and food-chain based approaches for habitat conservation; 5) ecosystem carrying capacity: MPA networking; 6) social safeguards in fishing boat buy-back scheme; 7) ecosystem carrying capacity: contaminants from river-sea interaction and atmospheric deposition; 8) design, plan and implement an integrated ecosystem-based monitoring system of LME; 9) synergizing implementation of environmental treaties and agreements using EBM approach in LME; 10) economic valuation: concept and practices in YSLME - case studies of IMTA, assessment of impacts of coastal and marine habitat modifications, effectiveness of fishing both in areas and in time; 11) ecosystem carrying capacity: case study of algae blooms in YSLME; 12) Ecosystem carrying capacity: case study of Jellyfish outbreak in YSLME.						71200	International experts (primarily Korean experts) to participate in preparing 12 EBM/LME training modules in English and Korean languages (125 days * \$400)	20,000
							71200	Chinese experts to prepare EBM/LME 12 training modules for 10 training workshops in English and Chinese (125 days * 400/day)	20,000
							74200	printing of training toolkits and modules (English, Chinese and Korean)	0
	Activity 8: printing of phase I technical report						74200	report printing	0
	Activity 9: develop/adapt training modules in virtual EBM/LME academy						72100	subcontract	0
	subtotal								147,000
						UNOPS	GEF		

[illegible]

COMPONENT 5: Project Management										
COMPONENT 5: Subtotal by COA	IICA (Project manager):					UNOPS	GEF	71200		13,000
	LICA (Administrative/Finance Assistant):							71300		40,000
								71600		0
								72100		0
	Equipment and Furniture (Automobile):							72200		15,000
	Fuel of vehicles:							72300		1,000
	Printers, Communication, Postage/freight:							72400		15,000
	Office supplies:							72500		5,000
	Information Technology Equipment: PC, server, printer and computer software.							72800		0
	Premises costs, Operation cost:							73100		12,000
	Vehicle maintenance. & repair:							73400		0
	Printing and Publications:							74200		1,000
	Vehicle insurances & Bank charges:							74500		900
	Vehicles parking:							74700		300
	meetings and workshops							75700		0
Component 5 subtotal										103,200
Subtotal of component 1-5										1,639,090
Management fees										155,714*
Grant total										1794804

*Management fee is calculated based on 9.5 percent of delivery of resources in accordance with the agreement between UNDP and GEF.