

**UNDP/GEF YSLME Phase II Project TYWP and Workplan 2018-2019**

**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						
		2018				2019					Source of Funds	COA	description	2018	2019	Total (USD)	
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	Q1	Q2	Q3	Q4								
<b>Component 1: Ensuring sustainable regional and national cooperation for ecosystem based management, based on strengthened institutional structures and improved knowledge for decision making</b>																	
<b>OUTCOME 1.1 Regional governance structure, the YSLME Commission established and functional, based on strengthened partnerships &amp; regional co-ordination; wider stakeholder participation and enhanced public awareness.</b>																	
<b>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</b>																	
<p>End of Project Target (2019):</p> <p>1) Functioning YSLME Commission, indicated by:</p> <p>(1) MOU or Joint Declaration signed on establishment of the YSLME Commission; (2) proposal for 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) Rules of Procedure of YSLME Commission prepared and agreed among participating countries and partners.</p> <p>Targets of 2018:</p> <p>1) RWG and NWG members determined;</p> <p>2) annual meetings of ICC, MSTP and RWGs and proceedings;</p> <p>3) One TF meeting for ROG organized</p> <p>Targets of 2019:</p> <p>1) annual meetings of ICC, MSTP and RWGs conducted and proceedings published;</p> <p>2) quality management system including financial management system in place</p> <p>3) proposal for YSLME Commission to acquire its legal personality agreed by stakeholders</p> <p>4) one project concept paper prepared to apply for fund to support SAP 2020-2030 implementation</p>	Activity 1: Updating YSLME SAP (2020-2030) with participation of YS partnership members						100%			UNOPS	GEF	71200	20 days*\$400 (1 Consultant)	-	15,000	15,000	
							50%	50%					71600	2 meetings*7 persons*\$300/day*2 days +\$350*7 persons*2 meetings	-	14,896	14,896
							50%	50%					75700	\$30/day*2 days*20 persons*2 meetings	-	12,688	12,688
		Activity 2: Consultancy for development of the rules of procedure of the YSLME Commission including the roadmap for acquiring the legal personality of the YSLME Commission			100%		50%		50%				71200	75 days*400	13,720	19,880	33,600
		Activity 3: Conduct annual meetings of MSTP/ICC , special MSTP, and publish proceedings of meetings	50%			50%	50%					50%	71600	Each year: 9 persons*\$300/day*3 days +\$350*9 persons;	18,271	19,531	37,801
			50%			50%	50%					50%	74200	printing of publications	325	347	672
			50%			50%	50%					50%	75700	Each year: \$30/day *3 days *30 persons (\$2,700) + \$500 snacks + \$1,000 for venue + simultaenous imterpretation (2days - \$10,000 for both languages)	6,821	17,291	24,112
		Activity 4. Conduct RWG meetings and prepare proceedings		20%	30%	50%		20%	30%			50%	71600	Each year: \$300/day *2 days *3.5 persons *6 meetings (\$12,600) + \$350/travel *3.5 persons *6 meetings (\$7,350)	32,399	34,634	67,033
				20%	30%	50%		20%	30%			50%	74200	printing of publications	1,949	2,083	4,032
					20%	30%	50%		20%			30%	50%	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)	28,642	29,582
		Activity 5: Establish quality management system of the Secretariat including financial management system, HR rules and regulations, staff code of conduct, audit mechanism, program management, etc.						100%					71300	60 days* \$200/day	-	13,440	13,440
		Activity 6: Conduct of rules of govenance TF meeting on issues identified by the MSTP			100%		50%		50%				71600	Total: \$300/day *2 days *3.5 persons *6 meetings (\$12,600) + \$350/travel *3.5 persons *6 meetings (\$7,350)	16,200	17,316	33,516
						100%		50%				50%	75700	Total: \$30/day *2 days *10 persons *6 meetings (\$3,600) + \$300 snacks* 6 meetings (\$1,800)	4,384	9,686	14,070
		Activity 7. Strengthening partnerships and develop project proposals.					50%	50%					72100	consultancy	-	15,680	15,680
									100%				75700	meeting and seminar	-	6,720	6,720
<b>Subtotal 1.1.1</b>													<b>122,709</b>	<b>228,775</b>	<b>351,484</b>		
<b>OUTCOME 1.2 improved inter-sectoral coordination and collaboration at the national level.</b>																	
<b>Output 1.2.1 National level agreements regarding ecosystem-based management actions, policies, regulations and standards promulgated, as appropriate</b>																	

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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	Q1	Q2	Q3	Q4										
based on more effective IMCCs  End of project target: 1) Participation of Ministries in the IMCC will include Ministry of Foreign Affairs, Ministry of Finance, ministry of ocean & fishery and relevant ministries 2) At least one meeting of IMCC every year and functioning coordination 3) NSAP implementation reports prepared and distributed in Interim Commission Council meetings in 2020	Activity 1. Assemble data to review implementation progress of National SAP in line with YSLME SAP performance indicators and project indicators and update National SAP 2018-2020		50%		50%					UNOPS	GEF	72100	subcontract coordinated by IMCC	89,600	-	89,600			
	Activity 2: Edit and publish NSAP implementation review report and consolidated report				100%							71200	Edit of NSAP review report and consolidated report	5,114	-	5,114			
						100%						74200	printing	-	11,686	11,686			
	<b>Subtotal 1.2.1</b>													<b>94,714</b>	<b>11,686</b>	<b>106,400</b>			
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-based management  End of project target: 1) YSLME Partnership guidelines prepared and agreed to guide the partnership development 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 3) at least 6 collaborative activities with regional and bilateral partners; 4) at least 10 training activities with at least 200 professionals and officials 5) at least 15 public awareness initiatives organized 6) interactive and visualized project website launched informing stakeholders of the status and trends of ecosystem carrying capacity 7) YSLME internship program initiated and implemented to support knowledge capture, awareness raising and compliance with international and domestic laws  Targets for 2018 1) information portal designed and project website operationalized; 2) Communication strategy refined and at least two awareness activities conducted; 3) training workshops on stock assessment, MPA networking and IMTA conducted; 4) two exchange visits conducted on marine pollution monitoring, MPA networking or marine litter control; 5) YSLME Biodiversity Partnership Forum organized; 6) legal clearing house set up and information portal established;	<b>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</b>						50%		50%	UNOPS	GEF	71200	40 days* \$400		26,431	26,431			
	Activity 1. Strengthening partnerships with existing regional mechanisms (NOWPAP, PEMSEA, IOC/WESTPAC, COBSEA, EAAFP, UNESCAP): Guideline development, regional agreements, regular meetings, & joint programmes							50%				50%	71600	travels		13,216	13,216		
									100%				74200	printing of knowledge product		8,810	8,810		
								50%				50%	75700	joint activities (biodiversity forum, nutrient workshop)		6,872	6,872		
	Activity 2. Strengthening partnerships with existing bilateral mechanisms: Joint activity & Regional workshop											100%	72100	Subcontract		50,634	50,634		
								100%					71600	travels		14,000	14,000		
								100%					75700	meetings and workshops		6,929	6,929		
	Activity 3. Design, establish, maintain and support an interactive YSLME Partnership portal with functionalities of helpdesk, search, partner website linkage, component integration, virtual EBM-LME academy in English, Chinese and Korean languages	30%			70%							100%	72100	several subcontracts on portal design and maintenance, cloud hosting services, hardware, software,	21,280	23,520	44,800		
	Activity 4. Hosting/ maintenance/ web services	30%			70%							100%	72100	Web host service	2,000	2,000	4,000		
	Activity 5: Internship program to assist in project implementation and employability of graduates	25%	25%	25%	25%	25%	25%	25%	25%			25%	71600	allowance for interns	25,000	41,664	66,664		
	<b>Subtotal 1.3.1</b>													<b>48,280</b>	<b>194,076</b>	<b>242,356</b>			
		<b>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</b>																	
	Activity 1: 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		100%									100%	UNOPS	GEF	71200	international consultant	31,072	11,944	43,016
				100%				100%	72100	subcontract	68,677	78,336			147,013				
<b>Subtotal 1.3.2</b>												<b>99,749</b>	<b>90,280</b>	<b>190,029</b>					
	<b>Output 1.3.3 Transfer lessons, experiences and best practices between the local demonstration sites</b>																		
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 and study visit to HELCOM.			60%	40%			20%	40%	40%	UNOPS	GEF	71600	6 officials/experts*5 days*2 visits/year*\$200/day (marine pollution monitoring visits in PR China and RO Korea; one MPA cross-site visits; marine litter management and control)	59,488	20,832	80,320			

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		2018				2019					Source of Funds	COA	description	2018	2019	Total (USD)	
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	Q1	Q2	Q3	Q4								
Targets for 2019 1) at least six awareness activities conducted; 2) 4 training workshops conducted; 3) two exchange visits organized; 4) Proceeding of YSLME Biodiversity Partnership Forum published	<b>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</b>																
	Activity 1: Conduct of training workshops in collaboration with partners on ecosystem-based management, social safeguards, environmental treaties and agreements, regional cooperation, CBA, etc		50%	50%			50%		50%	UNOPS	GEF	71600	travel of resource persons	23,800	43,400	67,200	
				50%	50%		50%		50%			75700	venue and food for trainees (\$25/day*3days*20 persons*10 wkps)	13,160	26,040	39,200	
	<b>Subtotal 1.3.4</b>													<b>36,960</b>	<b>69,440</b>	<b>106,400</b>	
<b>Total 1.3</b>																<b>619,105</b>	
OUTCOME 1.4 Improved compliance with regional and international treaties, agreements and guidelines	<b>Outputs 1.4.1 Enhanced national and regional legal instruments to comply with regional &amp; global treaties, agreements and guidelines</b>																
End of project targets: 1) Code of Conduct for Responsible Fisheries adapted as regional guidelines agreed by China and RO Korea 2) new/revision of existing laws included in legislative agenda	Activity 1. Review and identify gaps between domestic and regional and global standards, and to make legal recommendation to harmonize domestic legislation.			100%						UNOPS	GEF	71200	2 consultants from two countries, 40 days* \$400/day	17,920	-	17,920	
Targets in 2018: 1) gaps in domestic legislation to implement YSLME SAP identified 2) workshop held on methodologies and approaches	Activity 2. Develop regional guidelines for incorporating Code of Conduct for Responsible Fisheries in YSLME context.				100%							72100	subcontract	11,200	-	11,200	
	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.				100%			100%				72100	subcontract	19,382	10,950	30,332	
	<b>Subtotal 1.4.1</b>													<b>48,502</b>	<b>10,950</b>	<b>59,452</b>	
OUTCOME 1.5 Sustainable financing for regional collaboration on ecosystem-based management secured, based on cost-efficient and ecologically-effective actions	<b>Outputs 1.5.1 Periodic economic assessments of costs and ecological effectiveness</b>																
End of project targets: 1) financing agreement for YSLME Commission between countries reached for another 5 years from 2020 on, and government funding secured in year 2019 2) Trust fund set up	Activity 1. mid-term and terminal evaluation		100%					100%		UNOPS	GEF	71600	travel of consultant	3,360	11,200	14,560	
								100%				71300	interpreters	-	5,000	5,000	
			100%					100%				71200	mid-term and terminal evaluation	33,600	62,186	95,786	
	<b>Subtotal 1.5.1</b>													<b>36,960</b>	<b>78,386</b>	<b>115,346</b>	
	<b>Outputs 1.5.2 Sustainable financing agreed; at least 150% increase in government financing for regional collaboration</b>																
Targets in 2018: 1) subcontracts for CBA of IMTA, marine habitat modification and fishing effectiveness launched and inception report approved by RWGs 2, Task Force on Sustainable Financing of YSLME Commission operational 3, MTR completed and management responses prepared and fed into management planning	Activity 1. Consultancy for development of financing mechanism for the YSLME Commission				100%		100%			UNOPS	GEF	71200	25 days* 400	2,800	8,400	11,200	
	Activity 2: Conduct negotiations for financing YSLME as a regional collaboration mechanism by Task Force(s)			100%			100%					71600	\$300/day *2 days *3 persons *4 meetings (\$7,200) + \$350/travel *3 resource persons *4 meetings (\$4,900)	6,776	6,776	13,552	
				100%			100%					75700	\$30/day *2 days *10 persons *4 meetings (\$2,400) + \$300 snacks* 4 meetings (\$1,200)	2,016	2,016	4,032	
	<b>Subtotal 1.5.2</b>													<b>11,592</b>	<b>17,192</b>	<b>28,784</b>	
Targets in 2019: subtotal 1.5																<b>144,130</b>	
	IICA (Technical Assistance)	25%	25%	25%	25%	25%	25%	25%	25%	UNOPS	GEF	71200		61,000	65,000	126,000	
	Staff Travel Cost:	25%	25%	25%	25%	25%	25%	25%	25%			71600		10,335	23,265	33,600	
	<b>SUBTOTAL Component 1 Personnel/Staff Travel/Fee</b>													<b>\$ 71,335</b>	<b>\$ 88,265</b>	<b>\$ 159,600</b>	
<b>COMPONENT 1 Subtotal by COA</b>														<b>71200</b>	<b>165,226</b>	<b>208,841</b>	<b>374,067</b>
														<b>71300</b>	<b>-</b>	<b>18,440</b>	<b>18,440</b>
														<b>71600</b>	<b>195,629</b>	<b>260,729</b>	<b>456,358</b>
														<b>72100</b>	<b>212,139</b>	<b>181,120</b>	<b>393,259</b>
														<b>74200</b>	<b>2,274</b>	<b>22,927</b>	<b>25,200</b>

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		2018				2019					Source of Funds	COA	description	2018	2019	Total (USD)
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	Q1	Q2	Q3	Q4							
<b>COMPONENT 1 SUBTOTAL</b>											75700			55,022	117,825	172,847
<b>COMPONENT 2. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO PROVISIONING SERVICES</b>																
<b>OUTCOME 2.1 Recovery of depleted fish stocks as shown by increasing mean trophic level</b>																
<b>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.</b>																
<p>End of project target:</p> <p>1) 10% reduction in fishing boats and horse power in YS;</p> <p>2) livelihoods of affected fisher folks maintained at pre-buy-back scheme level or increased at 2 demonstration sites</p> <p>Targets in 2018:</p> <p>1) social safeguards review report and alternative livelihoods options recommendations made;</p>	<b>Activity 1.</b> Assess socio-economic implications of buy-back schemes at two demonstration sites (one site each in China and RO Korea)				100%				100%	UNOPS	GEF	72100	subcontract	25,200	23,745	48,945
								100%				71300	report editing and layout	-	2,240	2,240
				100%			100%					72100	subcontract	20,160	13,160	33,320
		<b>Activity 2.</b> Livelihood support and education to increase re-employment for displaced fishermen.				50%		50%				72100	Grant	-	260,108	260,108
		<b>Activity 3.</b> 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			100%		100%					72100	subcontract	20,160	13,160	33,320
							100%					74200	publication of proceeding	-	6,720	6,720
<b>Subtotal 2.1.1</b>												\$ 65,520	\$ 319,132	\$ 384,652		
<b>Output 2.1.2 Provision of alternative livelihoods to fisher folks taking into account the contribution of women</b>																
<p>Target in 2019:</p> <p>1) licensing system review report;</p> <p>2) regional workshop on livelihood development of fishermen conducted and proceeding published</p>	<b>Activity 1.</b> conduct regional experience sharing workshops on income generation from tourism and other opportunities							100%		UNOPS	GEF	71600	1 regional Workshop: \$300/day *2 days *6 persons * 2 workshops(\$7,200) + \$350/travel *6 persons *2 workshops (\$4,200)	-	12,768	12,768
							100%		75700			regional and national workshops: \$30/day *2 days *20 persons * (\$1,200) + \$300 snacks (each workshop)	-	6,720	6,720	
								100%				74200	publication of proceedings		9,325	9,325
	<b>Subtotal 2.1.2</b>												\$ -	\$ 28,813	\$ 28,813	
<b>SUBTOTAL 2.1</b>												\$ 65,520	\$ 347,945	\$ 413,465		
<b>OUTCOME 2.2 enhanced fish stocks through restocking and habitat improvement</b>																
<b>Output 2.2.1 Science-based management of fisheries</b>																
<p>end of project target:</p> <p>1) 5% improvements in standing stock and CPUE in 3 demo sites;</p> <p>2) future management decisions on restocking based on effectiveness</p> <p>Targets in 2018:</p> <p>1) 1 regional training on stock assessment conducted;</p> <p>2) baseline assessment of demo sites completed</p> <p>3) stock assessment results presented to assess the management effectiveness of selected species</p> <p>4) baseline report of demonstration sites in Zhangzidao, Weihai and Haizhou Bay;</p> <p>Targets in 2019:</p> <p>1) assessment report prepared on fish restocking including replanting, gear selectivity and artificial reef and buy-back scheme and closure in time</p>	<b>Activity 1.</b> Regional training in stock assessment and replenishment			100%						UNOPS	GEF	71200	2 expert*2 countries*1 training*5 days*\$400/day	8,960	-	8,960
				100%								71600	\$300*6person*2days*2 wkps (\$7,200)+ \$300/travel *5experts * 2 trainings (\$3,000)	16,380	-	16,380
				100%								75700	\$30/day*3days*20 persons*2 wkps	4,032	-	4,032
		<b>Activity 2.</b> Technical assistance to improve techniques of replanting of sea grass/macroalgae			100%			100%				72100	subcontract	8,960	13,440	22,400
							100%					74200	printing of publication	-	3,360	3,360
		<b>Activity 3.</b> Joint study of fish behavior/gear selectivity						100%				71600	2 scientists*2 countries*10 days	-	33,600	33,600
		<b>Activity 4.</b> study visit to improve techniques of artificial reefs construction and placement					100%					71600	4 scientists * 3 days	-	13,440	13,440
							100%					74200	printing of publication	-	1,120	1,120
		<b>Activity 5.</b> International conference on regional ocean governance/ science-based fishery management						100%				71600	international symposium in collaboration with APFIC or PICES	-	32,704	32,704
								100%				75700	international symposium	-	16,800	16,800
	<b>Activity 6.</b> Monitoring of implementation results in three demo sites				100%			100%	72100	subcontract, to be combined into one contract on monitoring	64,960	73,921	138,881			
	<b>Activity 7.</b> joint assessment of the effectiveness of closure and buy-back scheme				100%			100%	72100	subcontract	37,520	63,280	100,800			
<b>Subtotal 2.2.1</b>												\$ 140,812	\$ 251,665	\$ 392,477		
<b>SUBTOTAL 2.2</b>												\$ 140,812	\$ 251,665	\$ 392,477		
<b>OUTCOME 2.3: Enhanced and sustainable mariculture production, by increasing production</b>																
<b>Output 2.3.1 Widespread practice of sustainable mariculture, where appropriate, increasing productivity and reducing pollution.</b>																
	<b>Activity 1.</b> Develop GAP for IMTA				100%				100%			71200	40 days* \$400/day	11,200	6,720	17,920

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per unit area as means to ease pressure on capture fisheries  end of project target: 1) 5% reduction of contaminants and nutrients from mariculture in demo sites; 2) 10% increase in production per unit area;  Targets in 2018: 1) suitable areas in YS for IMTA mapped and environmental and social economic benefits assessed; 2) IMTA training module in Chinese prepared and published; 3) one training course on IMTA conducted and proceeding prepared; 4) IMTA promotion plan in Shandong prepared;  Targets in 2019: 1) GAP of IMTA developed and adopted; 2) second IMTA training conducted; 4) IMTA system in three demonstration sites constructed and monitoring equipment generate first reports; 5) international conference in sustainable mariculture conducted and proceeding published;					100%				100%	UNOPS	GEF	72100	subcontract	16,800	16,800	33,600	
									100%			74200	publication	-	6,720	6,720	
	<b>Activity 2:</b> survey of coastal areas suitable for operation of IMTA, and economic analysis of benefits				100%						UNOPS	GEF	72100	subcontract	50,400	-	50,400
	<b>Activity 3:</b> Develop plan to promote IMTA in Shandong				100%								72100	subcontract	8,960	-	8,960
	<b>Subtotal 2.3.1</b>														\$ 87,360	\$ 30,240	\$ 117,600
	<b>Output 2.3.2 Adoption of integrated multi-trophic aquaculture (IMTA) where appropriate</b>																
	<b>Activity 1.</b> prepare an IMTA training module			100%							UNOPS	GEF	71600	\$300*4 experts*2 days*2 wkps (\$4,800)+ \$350/travel *4 experts * 2 meetings (\$2,800)	9,318	-	9,318
								100%					74200	publication of training module	-	5,600	5,600
	<b>Activity 2:</b> Conduct IMTA training workshop												72100	subcontract	-	-	-
			30%	70%				100%					71600	3 days*4 persons*\$300/day +\$350/travel *4 persons	10,600	15,600	26,200
		30%	70%				100%			75700			venue and food for trainees (\$30/day*3days*20 persons + venue (\$1,500))	7,056	22,056	29,112	
<b>Activity 3:</b> support to demonstrate IMTA in three sites				100%					100%	72100			subcontract	32,480	34,720	67,200	
			100%							72200			monitoring equipment (logger and sensors)	22,400	-	22,400	
			100%							72200			monitoring equipment (diving devices)	27,400	-	27,400	
<b>Activity 4.</b> knowledge sharing on IMTA and replication elsewhere								100%		71600			Travel for conferences		35,241	35,241	
								100%		75700			conferences		14,097	14,097	
									100%		74200	publication of proceedings		5,286	5,286		
<b>Subtotal 2.3.2</b>														\$ 109,254	\$ 132,600	\$ 241,855	
<b>SUBTOTAL 2.3</b>														\$ 196,614	\$ 162,840	\$ 359,455	
	IICA (Technical Assistance)	10%	30%	30%	30%	25%	25%	25%	25%	UNOPS	GEF	71200		32,000	34,000	66,000	
	IICA (Project Negotiation and coordination)	10%	30%	30%	30%	25%	25%	25%	25%			71200		57,000	61,000	118,000	
	Staff Travel Cost	25%	25%	25%	25%	25%	25%	25%	25%			71600		10,335	23,265	33,600	
	<b>SUBTOTAL 2 Personnel/Staff Travel/Fee</b>													\$ 99,335	\$ 118,265	\$ 217,600	
<b>COMPONENT 2: subtotal by COA</b>												71200		109,160	101,720	210,880	
												71300		-	2,240	2,240	
												71600		46,634	166,618	213,252	
												72100		285,600	512,333	797,933	
												72200		49,800	-	49,800	
												74200		-	38,131	38,131	
												75700		11,088	59,673	70,761	
<b>COMPONENT 2 SUBTOTAL</b>														\$ 502,282	\$ 880,714	\$ 1,382,996	
<b>COMPONENT 3.IMPROVING ECOSYSTEM CARRYING REGULATING AND CULTURAL SERVICES</b>																	
OUTCOME 3.1 Ecosystem health improved through a reduction in pollutant discharge (e.g. nutrients) from land-based sources	<b>Output 3.1.1 Reduced pollutant levels by enforcement and control in demonstration sites</b>				100%					UNOPS	GEF	71200	40 days*\$400/day	17,920	-	17,920	
	<b>Activity 1.</b> Establish regional pollution monitoring guideline, environmental quality standards and network based on any existing ones: harmonize regional methodology and update regional monitoring guideline including for emerging contaminants.		50%	50%				100%				71600	nutrient regional workshop	23,632	-	23,632	
												74200	printing of publications	-	4,480	4,480	
End of Project Target: 1) agreed pollution monitoring guideline and monitoring network and harmonized methodologies; 2) agreement on data and information sharing mechanisms between China and RO Korea, and between YSLME Project and other organizations 3) 10% reduction in N discharge during project (2014-2019)				100%								75700	nutrient regional workshop	5,600	-	5,600	
	<b>Activity 2.</b> Support to apply modelling & calculate nutrient loading in hot spots/ critical habitats: 1 pilot sites in China and 1 sites in RO Korea;		40%		60%							72100	subcontract	49,280	-	49,280	
								100%				74200	printing of publications	-	2,240	2,240	

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EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES	TIMEFRAME								RESPONSIBLE PARTY	PLANNED BUDGET					
		2018				2019					Source of Funds	COA	description	2018	2019	Total (USD)
Output/outcome indicators and annual indicator targets/ benchmarks (if applicable) cycle (2014-2019)	List all activities to be undertaken (including evaluations and publications etc.)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
<p>Targets in 2018:</p> <p>1) loading reports of Haizhou Bay;</p> <p>2) agreement on sharing of data and information on atm-based, sea-based and agriculture-based pollutants</p> <p>Targets in 2019:</p> <p>1) production of maps of selected pollutants from sea-based, atmospheric and land-based sources agreed between the two countries</p>	<b>Subtotal 3.1.1</b>												\$ 96,432	\$ 6,720	\$ 103,152	
	<b>Output 3.1.2 Enhanced data and information sharing regarding sources and sinks of contaminants</b>															
	<b>Activity 1:</b> Diagnostic analysis of ID sources & sinks				100%		100%			UNOPS	GEF	71200	20 days*\$400/day	6,720	2,240	8,960
	<b>Activity 2:</b> Support for monitoring and acquisition of data for sharing on pollutants from atm-based sources	20%			80%			100%		UNOPS	GEF	72100	subcontract	33,600	22,400	56,000
	<b>Activity 3:</b> Support for monitoring and data acquisition for sharing on fertilizer use	20%			80%			100%		UNOPS	GEF	72100	subcontract	33,600	22,400	56,000
	<b>Activity 4:</b> Support for monitoring and data acquisition for sharing from sea-based sources:	20%			80%			100%		UNOPS	GEF	72100	subcontract	33,600	22,400	56,000
	<b>Activity 5:</b> support production of data products of yellow sea agreed by two countries				100%				100%	UNOPS	GEF	72100	subcontract	812	868	1,680
	<b>Subtotal 3.1.2</b>													\$ 108,332	\$ 70,308	\$ 178,640
	<b>SUBTOTAL 3.1</b>													\$ 204,764	\$ 77,028	\$ 281,792
	<p>OUTCOME 3.2 Wider application of pollution-reduction techniques piloted at demonstration sites</p> <p>End of project target:</p> <p>1) 3 nutrient reduction demonstration projects invested by 3 local governments using wetland regulating services;</p> <p>Targets in 2018:</p> <p>1) completion of regional strategy of using wetland as nutrient sinks and synthesis of good practices of using wetland regulating services to rehabilitate river basin and coastal environments</p> <p>2) increased knowledge in use of regulating services of wetland habitats by planners and investors in demonstration sites;</p> <p>3) construction of wetland habitat in one demonstration site completed and initiated in two replication sites;</p> <p>Targets in 2019:</p> <p>1) one study visit facilitated for increased knowledge in use of regulating services of wetland habitats by planners and investors in demonstration sites;</p> <p>2) study visit of Chinese counterparts to Korean cities conducted;</p>	<b>Output 3.2.1. New and innovative techniques for pollution reduction (e.g. artificial wetlands and habitats) applied at demonstration sites</b>														
<b>Activity 1:</b> Synthesize good practices and develop regional strategy for using wetlands as nutrient sink	20%			80%					UNOPS	GEF	71200	20 days*\$400/day	17,920	-	17,920	
<b>Activity 2:</b> technical support to design wetland habitats to achieve blue bay in one pilot site in China and application of clean production technologies and relevant technology transfer						100%			UNOPS	GEF	72100	subcontract	-	273,577	273,577	
<b>Activity 3:</b> prepare a case study and share experiences in using wetland to treat nutrients in wastewater							100%		UNOPS	GEF	74200	printing of case studies	-	5,040	5,040	
<b>SUBTOTAL 3.2</b>													\$ 17,920	\$ 278,617	\$ 296,537	
<p>OUTCOME 3.3 Strengthened legal and regulatory processes to control pollution</p> <p>End of project target:</p> <p>1) new financial and economic incentives and regulatory measures adopted in coastal cities in support of recycling economy</p> <p>2) number of new provincial regulations to improve water quality in Shandong, Jiangsu and Liaoning</p>	<b>Output 3.3.1 Strengthened legal instruments and better regulatory processes to control pollution</b>															
<b>Activity 1:</b> 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	20%			80%				100%			71200	20 days *\$400/day	8,960	-	8,960	
<b>Activity 2:</b> preparation of training modules and conduct of training in application of SOP of microplastics						100%					74200	printing of publication	-	2,240	2,240	
											71200	20 days *\$400/day	-	8,960	8,960	



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EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES	TIMEFRAME								RESPONSIBLE PARTY	PLANNED BUDGET						
		2018				2019					Source of Funds	COA	description	2018	2019	Total (USD)	
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	Q1	Q2	Q3	Q4								
<p>2) impacts of reclamation of coastal wetland assessed in 2 demo sites;</p> <p>3) YSLME Biodiversity Conservation Plan adopted and management guidelines and actions integrated into sectoral plans;</p> <p>Targets in 2018:</p> <p>1) consensus reached on YSLME Biodiversity Conservation Plan: habitat, species, priorities and actions;</p> <p>2) regional guidelines for assessment of effectiveness and impact of coastal habitat restoration projects developed and agreed;</p> <p>Targets in 2019:</p> <p>1) consultations conducted on integration of coastal management priority areas and targets into land and sea use plans of national and local levels;</p>	<p><b>Activity 2:</b> Identify approved reclamation up to 2015 in each country, and any further reclamation from 2016 on</p>			100%						UNOPS	GEF	71200	20 days*\$400/day	8,960	-	8,960	
	<p><b>Activity 3:</b> Harmonize valuation methodologies, standards, and guidelines for evaluation of the effectiveness and impact of ecosystem-based restoration project</p>				100%								71200	20 days*\$400/day	8,960	-	8,960
	<p><b>Activity 4:</b> Conduct regional and national workshops to share experience and good practice of restoration projects including valuation methodologies, standards and guidelines</p>						100%						71600	one regional and 3 national workshops: 2 days*4 persons*\$300/day *4 workshops +\$350/travel *4 persons*4 workshop	-	17,024	17,024
							100%						75700	\$30/day*2 days*20 persons *4 workshop	-	5,376	5,376
	<p><b>Activity 5:</b> 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>				100%				100%				72100	subcontracts	32,480	34,720	67,200
	<p><b>Activity 6:</b> Regional evaluation of implementation of CBD and RAMSAR convention and country reports within the YSLME:</p>				100%			100%					72100	subcontracts	22,400	11,200	33,600
				100%									71600	2 days*4 persons*\$300/day *1 workshops +\$350/travel *4 persons*1 workshop	4,256	-	4,256
				100%									75700	\$30/day*2 days*20 persons *1 workshop	1,344	-	1,344
							100%						74200	printing of publication	-	1,680	1,680
	<b>SUBTOTAL 4.1</b>												<b>\$ 96,320</b>	<b>\$ 70,000</b>	<b>\$ 166,320</b>		
<p><b>OUTCOME 4.2:</b> MPA Network strengthened in the Yellow Sea</p> <p>End of project target:</p> <p>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)</p> <p>2) 10% increase in METT scores of demonstration MPAs;</p> <p>3) increase of total coastal and marine areas under MPAs.</p> <p>Targets in 2018:</p> <p>1) Biodiversity Forum conducted with agreed concept paper on YSLME MPA Network;</p> <p>2) survey, data collection and sharing, and gap analysis plan agreed and implemented</p> <p>3) one training workshop on MPA connectivity conducted;</p> <p>4, cross-site experience sharing organized and conducted;</p> <p>5) one new MPA is established for inclusion as a new EAAF sites;</p> <p>Targets in 2019:</p> <p>1) overlays produced and YSLME MPA network proposed;</p> <p>2) one training workshop organized and conducted;</p>	<p><b>Output 4.2.1 MPA networks strengthened in the YSLME</b></p>		100%							UNOPS	GEF	71600	2 days*4 persons*\$300/day *1 workshops +\$350/travel *4 persons*1 workshop	19,712	-	19,712	
<p><b>Activity 1:</b> Review and agree on assessment scopes and methodologies, and organize Biodiversity Forum</p>						100%						74200	Printing publications	-	2,240	2,240	
		100%										75700	\$30/day*2 days*20 persons *1 workshop	8,288	-	8,288	
<p><b>Activity 2:</b> Analysis of country coastal management guidelines, identification of conservation areas according to planning zones</p>			100%									72100	subcontract	20,160	-	20,160	
<p><b>Activity 3:</b> 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</p>				100%			100%					72100	subcontract	100,800	100,800	201,600	
			100%			100%						71200	training module preparation and conduct of training: 3 trainers*5 days/each*3 trainings*\$400	6,720	-	6,720	
<p><b>Activity 4:</b> Conduct regional training seminars focusing on enhancing connectivity in MPA network, (2 in China and 1 in RO Korea)</p>			100%			100%						71600	3 trainers*6 days* 3 wkps*\$300 + 4 persons*\$350*3 trainings + \$150*20 persons*3 trainings + \$350/travel*20 persons*3 trainings	21,874	23,374	45,248	
			100%			100%						75700	5 days*20 persons*3 wkps*\$30/day + venue \$1,500*3 trainings	7,308	7,812	15,120	



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EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES	TIMEFRAME								RESPONSIBLE PARTY	PLANNED BUDGET							
		2018				2019					Source of Funds	COA	description	2018	2019	Total (USD)		
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	Q1	Q2	Q3	Q4									
3) new MPAs are proposed and boundaries defined, new boundaries of existing MPAs proposed, and area-based conservation measures proposed. 4) cross-site experience sharing organized and conducted; 5) 5-year management plan of YSLME MPA Network prepared and implemented and progress of implementation reviewed annually at MPA forum.	<b>Activity 5:</b> Spotted seals connectivity satellite tracking monitoring/ endangered migratory birds and MPA network strengthening for increased connectivity and effectiveness in selected MPAs				100%		30%		70%	UNOPS	GEF	72100	subcontract	90,040	105,160	195,200		
				100%								72100	Equipment (10 Satellite tracking devices)	30,000		30,000		
	<b>Activity 6:</b> 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						100%					71600	2 days*4 persons*\$300/day *3 workshops +\$350/travel *4 persons*3 workshop	-	12,768	12,768		
							100%					75700	\$30/day*2 days*20 persons *3 workshop	-	4,032	4,032		
<b>SUBTOTAL 4.2</b>													<b>\$ 304,902</b>	<b>\$ 256,186</b>	<b>\$ 561,088</b>			
<b>OUTCOME 4.3:</b> 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 plankton communities 2) 1 coastal ICM model framework plans in coastal provinces and cities incorporate CC adaptation to improve climate resilience  Targets in 2018: 1) assessment report of climate change impact on coastal communities and ecosystem services; 2) improved understanding and awareness of climate change implications on YSLME at national, subnational and community levels 3) Synthesis report of climate change effect on ecosystems  Targets in 2019: 1) regional strategy for adaptive management prepared and adopted; 2) one coastal city or province adopts or integrate climate adaptation into sectoral and/or development plans;	<b>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</b>																	
	<b>Activity 1:</b> Stock-taking of vulnerabilities of coastal communities and ecosystem services in YSLME to impact of climate change				100%						UNOPS	GEF	71200	20 days*\$400/day	8,960	-	8,960	
	<b>Activity 2:</b> Study on climate change and its impact on YSCWM, coastal and marine ecosystem services and adaptation				100%		100%						72100	subcontract	72,800	65,945	138,745	
								100%					71600	4 trainers*3 wkp*\$600/travel + 4*\$300*6 days + \$150*20*3 trainings + \$350*20*3 trainings	-	58,499	58,499	
								100%					75700	5 days*20 persons*3 wkps*\$30/day + venue \$1,500*3 trainings	-	14,008	14,008	
	<b>Activity 3:</b> Develop CC adaptation ICM model framework plan or strategic framework plan for 1 coastal city or province				100%			100%			UNOPS	GEF	72100	subcontract	60,480	141,120	201,600	
	<b>Activity 4:</b> Study on <i>Sargassum</i> sp. economic implication				100%			100%			UNOPS	GEF	72100	subcontract	20,000	20,000	40,000	
<b>SUBTOTAL 4.3</b>													<b>\$ 162,240</b>	<b>\$ 299,572</b>	<b>\$ 461,812</b>			
<b>OUTCOME 4.4</b> Application of ecosystem-based community management (EBCM) preparing risk management plans to address climate variability and coastal disasters  End of project targets: 1) improved awareness, knowledge, participation and preparedness to impact of climate change at 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	<b>Output 4.4.1 Public awareness of Yellow Sea environmental problems enhanced; strong local support for and awareness of demonstration activities</b>																	
	<b>Activity 1:</b> 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		100%								UNOPS	GEF	71200	20 days* \$400/day	8,960	-	8,960	
		<b>Activity 2:</b> implement the SGP and conduct M&E, communication and other management activities.				100%	25%	25%	25%	25%				72100	grants	44,391	181,028	225,419
					50%	50%	20%	30%	50%					71600	monitoring visits	5,858	2,952	8,810
<b>Subtotal 4.4.1</b>													<b>\$ 59,210</b>	<b>\$ 183,980</b>	<b>\$ 243,190</b>			
<b>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</b>																		

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EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES	TIMEFRAME								RESPONSIBLE PARTY	PLANNED BUDGET						
		2018				2019					Source of Funds	COA	description	2018	2019	Total (USD)	
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	Q1	Q2	Q3	Q4								
<p>4) 12 training modules prepared for increased knowledge base and critical mass of expertise on EBM for dissemination and transfer at local levels;</p> <p>Targets in 2018:</p> <p>1) SGP launched and first group of projects awarded;</p> <p>2) regional strategies for ecosystem forecast, modelling and scenario analysis agreed;</p> <p>3) YSLME EBM training modules agreed and under preparation by joint task forces as a compliment to initiatives of IW:Learn</p> <p>Targets in 2019:</p> <p>1) data products generated from regional monitoring shared via project website;</p> <p>2) through project support increased number of NGOs and community-based organizations to participate in climate change adaptation initiatives at community level;</p> <p>3) at least 5 EBM training modules are produced;</p>	<p><b>Activity 1.</b> Make regional assessment (including trend of introduced species in the region) and make policy-relevant recommendations</p>				100%				100%	UNOPS	GEF	72100	subcontract	44,800	60,480	105,280	
	<p><b>Activity 2.</b> Develop regional strategies for long-term ecosystem forecasts, and conduct modelling and scenario analysis and sharing of estuary data</p>				100%				100%			71200	40 days*\$400/day	8,960	8,960	17,920	
	<p><b>Activity 3.</b> 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</p>				100%				100%	UNOPS	GEF	72100	subcontract	16,800	16,800	33,600	
	<p><b>Activity 4.</b> 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;</p>				100%							72100	subcontract	11,200	-	11,200	
	<p><b>Activity 5.</b> Establish a comprehensive regional monitoring system: Develop regional monitoring strategies for N/P/Si changes, climate change, jellyfish blooms, and HAB</p>				100%	100%						72100	subcontract	8,960	8,960	17,920	
	<p><b>Activity 6:</b> Prepare 4 training modules on ecosystem-based management in LME, 1) ecosystem carrying capacity - fish restocking; 2) ecosystem carrying capacity - IMTA; 3) ecosystem carrying capacity: MPA networking; 4) synergizing implementation of environmental treaties and agreements using EBM approach in LME;</p>				100%	25%	25%	25%	25%			71200	International experts to participate in preparing 4 EBM/LME training modules in English	37,400	17,801	55,201	
					100%				100%			74200	printing of training toolkits and modules (English, Chinese and Korean)	8,200	27,800	36,000	
					100%				100%			72100	Translation of training modules	10,000	10,000	20,000	
	<b>Subtotal 4.4.2</b>														\$ 146,320	\$ 150,801	\$ 297,121
	<b>SUBTOTAL 4.4</b>														\$ 205,530	\$ 334,781	\$ 540,311
	IICA (Technical Assistance):	25%	25%	25%	25%	25%	25%	25%	25%			71200		106,600	177,240	283,840	
	IICA (Project Negotiation and coordination):	25%	25%	25%	25%	25%	25%	25%	25%			71200		78,000	83,000	161,000	
	LICA (Technical Assistance):	25%	25%	25%	25%	25%	25%	25%	25%			71300		64,000	69,000	133,000	
	Staff Travel Cost:	25%	25%	25%	25%	25%	25%	25%	25%			71600		21,305	41,662	62,968	
	<b>SUBTOTAL 4 Personnel/Staff Travel/Fee</b>													\$ 269,905	\$ 370,902	\$ 640,808	
<b>COMPONENT 4: Subtotal by COA</b>												71200		291,440	287,001	578,441	
												71300		64,000	69,000	133,000	
												71600		73,005	156,280	229,285	
												72100		585,311	756,213	1,341,524	
												74200		8,200	31,720	39,920	
												75700		16,940	31,228	48,168	
<b>COMPONENT 4 SUBTOTAL</b>														\$ 1,038,897	\$ 1,331,442	\$ 2,370,338	
<b>COMPONENT 5: Project Management</b>																	
<b>COMPONENT 5: Subtotal by COA</b>	IICA (Project manager)	25%	25%	25%	25%	25%	25%	25%	25%	UNOPS	GEF	71200		7,249	24,172	31,420	
	Printers, Communication, Postage/freight				100%				100%			72400		8,120	8,680	16,800	
	Office supplies	10%	30%	50%	10%	10%	30%	50%	10%			72500		7,416	7,927	15,343	
	Premises costs, Operation cost	25%	25%	25%	25%	25%	25%	25%	25%			73100		23,386	24,998	48,384	
	Printing and Publications:				100%				100%			74200		1,494	1,597	3,091	
<b>COMPONENT 5 SUBTOTAL</b>														\$ 47,664	\$ 67,375	\$ 115,039	
<b>SUBTOTAL OF COMPONENT 1-5</b>														\$ 2,753,908	\$ 3,782,501	\$ 6,536,409	