The Third Meetings of the Management, Science and Technical Panel (MSTP) and Interim Commission Council were held in Intercontinental Hotel, Qingdao, on March 12-14, 2019. The meeting was participated by 61 representatives from governments of the PR China, RO Korea, UNDP, UNOPS, members of the Regional Working Groups (RWGs) from the two countries and observers from academia, regional seas programs and NGOs. The Meeting was Chaired by Mr. Antao WANG and co-chaired by Mr. Jae-Ryoung OH.

Opening remarks
The meeting recognized the significance of implementation of the projects considering the time remaining before termination in 2019 and also reconfirmed the commitments to the TDA and SAP as the strategic planning framework for ecosystem-based management of the YSLME and iterated the urgent needs to consider the post-YSLME Project arrangements before official closure of the project. The meeting also reminded of prioritizing project activities to achieve the objectives of restoring the ecosystem carrying capacity and consolidation of the regional environmental governance framework within the limited timeframe.

Agenda, conclusions and decisions of the Meeting:

**Agenda 3.0: Project Progress Report**

The meeting adopted the Secretariat report on the implementation of the planned activities in 2018 in relation to operationalization of the Interim Commission Council and its subsidiary bodies, implementation of the project cooperation agreements, procurement, recruitment of experts, expenditure and financial aspects of the implementation of the project. The meeting emphasized significance of activities to be reported in a balanced way from both countries.

**Agenda 4.0: Implementation of the Recommendations of the Mid-Term Review**

The meeting reviewed the status of the implementation of key actions in response to Mid-Term Review (MTR) recommendations, and requested the Secretariat to put more efforts on implementation of activities by reducing the number of events and meetings. Considering the current status facing termination of the project in 2019, the recommendation to reduce the total number of RWGs of 6 to 4 is not feasible way to consider at this stage.

**Agenda 5.0: Review of Implementation of the YSLME SAP 2009-2020**

**Agenda 5.1. Implementation of National Strategic Action Plan (2009-2016)**

The meeting welcomed the results of review of implementation of NSAP up to 2016, and requested to consider contributions made through the project with tangible outcomes for the benefits of conservation of Yellow Sea. The meeting reiterated the significance of problems derived from marine litter including plastics, and requested the NSAP to be added with more information on marine litter treatment especially, with best practice being implemented in both countries.

**Agenda 5.2. Annual Project Progress Report 2018**
The meeting reviewed the status of implementation of the project in line with indicators, baseline and end of the project targets in project result framework. The meeting acknowledged the current initiative being implemented by PR China on marine litter with guidelines and also unified methodology from both countries in monitoring jellyfish. The meeting directed the Secretariat to prepare annual project report by reflecting updated information provided by RO Korea.

In light of the need for flexibility and innovation in arriving at a regional ocean governance for the YSLME, the meeting decided to continue discussions for a mutually agreed interpretation of the YSLME Commission. The meeting agreed to revisit the Strategic Results Framework at the fourth meeting of the ICC.

**Agenda 6.0: Update of the YSLME TDA and SAP**

**Agenda 6.1. Process and Timeframe for Updating the TDA and SAP for the YSLME**

The meeting reviewed the process and timeframe to update and adopt the transboundary diagnostic analysis (TDA) and Strategic Action Programme (SAP) of the YSLME and guided the Secretariat and the international consultant hired to implement as planned with participation of relevant stakeholders.

**Agenda 6.2. The 3rd YSLME Science Conference**

The meeting approved the 3rd YSLME Science Conference as presented, taking into the following comments from both countries:

- Invite collaborating partners to actively participate in parallel events of the conference
- Organize plenary session with topic of update TDA and SAP with participation of governmental officers from both countries
- Reconsider the date and venue to be selected and inform the potential participants in advance

The meeting encouraged the Secretariat to proceed as planned with close consultation with both countries.

**Agenda 7.0: Establishment of the Regional Ocean Governance Mechanism for the YSLME**

The meeting approved the TOR for a consultancy service with the following revisions:

- The consultancy will be conducted in close consultation and coordination with the RWG on Governance and participation of experts involved in the SAP update.
- The following bilateral and regional mechanisms, including but not limited to, pertinent to the YSLME will be reviewed to benchmark the regional ocean governance mechanism of the YSLME:
  - China and Korea Marine Cooperation Mechanism between MNR/PRC and MOF/ROK
  - China and Korea environmental cooperation initiative;
  - NEASPEC;
  - NOWPAP;
- Review of existing reports and studies supported by the YSLME Phase I Project and other partners.
- The deliverables should be submitted for review by the partners countries in June, 2019.

The meeting also agreed to review and consider two deliverables submitted by Ocean Governance Specialist and Sustainable Finance Specialist.

**Agenda 8.0: Collaborative Initiatives to Implement YSLME SAP**
The meeting reviewed the relevance of studies and encouraged to work collaboratively and timely on data and information sharing and approved to proceed the activity as planned, taking into account the following suggestions:

- **Agenda item 8.1. Framework of the good aquaculture practice of integrated multi-trophic aquaculture (IMTA)** - Endorsed the proposed GAP of IMTA and suggested to consider GAP of IMTA as the industry standard of aquaculture at least at national level.
- **Agenda item 8.2. YSLME Clean Beach City Alliance** - Requested the Secretariat to report on the progress and consider possible change of the title.
- **Agenda item 8.4. Joint Studies on Migration and Environmental DNA of Spotted Seals**
- **Agenda item 8.5. YSLME Marine Environment Monitoring Program**

The meeting decided to defer to the approval of the Agenda 8.3 for revisit by the RWG-A.

On the **Agenda item 8.6. Yellow Sea Grant Program**, the meeting decided not to conduct the second call and include the YSGP under the overall arrangement of the regional cooperation framework of the YSLME. However, the meeting strongly recommends within the implementation of the approved grants, dedicated efforts be made to reach out and collaborate with relevant Korean actors.

**Agenda item 9.0. Project Implementation Cooperation**

Taking into account concerns on time constraints, the meeting approved the following PCAs to be signed between UNOPS and PCA entities to implement the activities in line with the proposals:

- **Agenda item 9.1. Amendment of Project Cooperation Agreement (PCA) with the First Institute of Oceanography of the Ministry of Natural Resources of PR China** (budget: total amount: US$747,000)
- **Agenda item 9.2. Amendment of the PCA with YSFRI of PR China on Reemployment Training of Displaced Fishermen Joining the Fishing Vessel Buy-Back Scheme** (budget: CNY1,507,060)
- **Agenda item 9.3. PCA with North China Sea Environment Monitoring Center on Demonstration of Integrated Investigation of Wetland Ecosystem of Jiaozhou Bay of Qingdao** (budget: US$300,000)

**Agenda item 10.0. Project Communication Strategy and Implementation Plan**

The meeting approved the strategy and implementation plan with focus on website the Secretariat recently launched, taking into account the following suggestions:

- Update the website on a regular basis
- Upload critical documents published during the phase I
- Seek for ways to maintain the website after the termination of the YSLME Phase II Project.

**Agenda item 11.0. Workplan 2019**

With concerns of balance of 4,750,239 USD out of total amounts of 7,562,430 USD, the meeting reviewed and assessed whether it is realistic to complete and approved the workplan 2019 taking into consideration of the revision which should be in realistic value for workplan 2019. With supports of PR China, RO Korea, UNDP and UNOPS assuming all deliverables are given and/or e-communication in consultation with Member States, the meeting approved the workplan for 2019 to proceed with the remaining budget for 2019 with the understanding the uncommitted fund will be returned to the GEF. The approved annual workplan and budget is attached to the summary report. UNOPS expressed its utmost commitments to the delivery of the agreed workplan for 2019. However, given the limited
timeframe until December 31, 2019, in view of the significant volume of activities and based on its experiences, UNOPS expressed its concerns to be able to deliver the commitments.

**Agenda item 12.0. Other Business**

**Agenda 12.1. Engagement of DPR Korea in participation of YSLME activities**
The meeting welcomed possible cooperation of partners with YSLME by utilizing upcoming events, including Science Conference and MPA connectivity training workshop as a means of cooperation in line with the United Nations rules.

**Agenda 12.2. Project Audit**
The meeting suggested UNOPS to share the standard terms of reference and scope/extent of work for relevant Parties to get informed properly in advance.

**Agenda 12.3. Terminal Evaluation**
The meeting reviewed guidelines of terminal evaluation introduced by a representative of UNDP China, by taking into account of limited time for arrangement of potential consultants in close consultation with members states.

**Agenda 12.4. Operations of PMO**
The Secretariat will undergo the closure process at the end of 2019. With concerns of time constraints, the meeting requested the Secretariat to implement activities and arrange closure process in a timely manner. The meeting was notified by MNR of the relocation of PMO Dalian Branch from NMEMC to National Marine Hazard Mitigation Service of the MNR. UNOPS is requested to proceed with the relocation officially as soon as possible. Mr. Bin WANG was approved to be added as a new RWG-G member.

**Agenda 13.0. Time and Venue of Next Meeting**
The meeting agreed to have the next MSTP-ICC meetings in RO Korea and date will be September (or 3 quarter) tentatively and will be determined through consistent communication with the Secretariat. The meeting also agreed to hold ad hoc ICCs based on needs with the last ICC to be held in ROK or PRC for the sake of full participation by all partners.

**Agenda 14.0. Adoption of Meeting Report**
The meeting adopted the summary report and attached workplan 2019 prepared by the Secretariat, to which the meeting was invited to review and adopt.

**Agenda 15.0. Wrap-up and Closure of the Meeting**
The meeting closed at 12:00 PM on the 14th of March, 2019.
Signed on behalf of the members of the Council by:

Date: 2019年4月1日
Mr. Antao WANG  
Director  
Department of International Cooperation  
Ministry of Natural Resources  
PR China

Date: 2019年4月1日
Mr. Changsoo KIM  
Director  
Global Environment and Science Division  
Ministry of Foreign Affairs  
RO Korea

Date: 2 April, 2019
Ms. Katrin LICHTENBERG  
Head of Programme  
ECR WEC  
UNOPS

Date: April 1, 2019
Mr. Chaode MA  
Programme Director  
UNDP China Office

Attachments:
1. project expenditure and budget for 2014-2019  
2. workplan 2019
### Annex I: YSLME Phase II Project Expenditure and Balance for 2019 (US dollars)

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<td>Project Management</td>
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<td>83,605</td>
<td>89,854</td>
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<td>304,302</td>
<td>378,000</td>
<td>73,698</td>
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<tr>
<td>Total</td>
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<td>169,436</td>
<td>603,909</td>
<td>1,768,576</td>
<td>4,767,833</td>
<td>7,562,430</td>
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Note: 1) committed costs ($17,594.25) in Component 1 in 2015 are budgeted under salaries of PMO staff in component 4 in 2019. This has resulted in the reduction of recorded expenditure for 2015 from USD220,128 to USD202,534, and increase of 2019 budget from USD 4,750,239 to USD4,767,833.

2) Expenditure in 2018 on Project Management was based on UNOPS Project Delivery Report (PDR) for the same year. Budget for Project Management in 2019 have been reduced to "0" due to misrecording of expenditure under Project Management in 2018 in UNDP Combined Delivery Report (CDR).
### UNDP/GEF YSLME Phase II Project Workplan 2019

#### Output/outcome indicators and annual indicator targets/benchmarks (if applicable)

List all activities to be undertaken (including evaluations and publications etc.)

<table>
<thead>
<tr>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
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<td>75700</td>
<td>17,291</td>
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#### UNOPS | GEF

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<th>GEF</th>
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<tbody>
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<td>71200</td>
<td>retainer contract, IICA3, updated TDA and YSLME SAP 2020-2030</td>
</tr>
<tr>
<td>71600</td>
<td>SAP update workshop = 24 persons*$300/day*3 days +$14,000</td>
</tr>
<tr>
<td>75700</td>
<td>SAP update workshop= $30/day *3 days *50 persons ($1,500) + $3,000 for venue</td>
</tr>
<tr>
<td>72100</td>
<td>procurement for consultancy services</td>
</tr>
<tr>
<td>75700</td>
<td>each of 2 meetings: $30/day *3 days *50 persons + $500 snacks + $10,000 for venue</td>
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</tbody>
</table>

#### Activity 1: Updating YSLME TDA and SAP (2020-2030) with participation of YS partnership members, and 3rd Science Conference

#### Activity 2: Consultancy for review of existing bilateral and multilateral collaboration on YSLME and recommendation for an innovative regional ocean governance mechanism for YSLME

#### Activity 3: Conduct 3rd and 4th meetings of MSTP/ICC, and publish proceedings of meetings

#### Subtotal 1.1.1

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<th>GEF</th>
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<tr>
<td>321,296</td>
<td>321,296</td>
</tr>
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</table>

#### Output 1.2.1 National level agreements regarding ecosystem-based management actions, policies, regulations and standards promulgated, as appropriate

#### Activity 1. Assemble data to review implementation progress of National SAP in line with YSLME SAP performance indicators and project indicators and publish report

#### Annex 2: workplan 2019
**EXPECTED OUTPUTS/OUTCOMES INDICATORS**

- **Output/outcome indicators and annual indicator targets/ benchmarks (if applicable)**
  - Finance, ministry of ocean & fishery and relevant ministries
  - At least two meetings of IMCC and functioning coordination
  - NSAP implementation reports prepared and distributed in Interim Commission Council meetings

**OUTCOME 1.2 Improved inter-sectoral coordination and collaboration at the national level, based on more effective IMCCs**

**End of project target:** (2019)

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 two meetings of IMCC and functioning coordination
3. NSAP implementation reports prepared and distributed in Interim Commission Council meetings

**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. 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
2. At least 10 training activities with at least 200 professionals and officials
3. At least 15 public awareness initiatives organized

**TARGETS FOR 2019**

1. Information portal designed and project website operationalized;
2. Communication strategy refined and communication guidelines for grant programs distributed;
3. One regional training workshop on ocean governance;
4. Legal clearing house set up and information portal established;

**OUTCOME 1.4 Improved compliance with regional and international treaties, agreements and guidelines**

**End of project target:**
1. 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
2. At least two meetings of IMCC and functioning coordination
3. NSAP implementation reports prepared and distributed in Interim Commission Council meetings

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**EXPECTED OUTPUTS/OUTCOMES INDICATORS**

<table>
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<tr>
<th>Output/outcome indicators and annual indicator targets/ benchmarks (if applicable)</th>
<th>PLANNED ACTIVITIES</th>
<th>TIMEFRAME</th>
<th>RESPONSIBLE PARTY</th>
<th>PLANNED BUDGET</th>
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<tbody>
<tr>
<td>List all activities to be undertaken (including evaluations and publications etc.)</td>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
</tr>
<tr>
<td>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</td>
<td>Activity 1. 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</td>
<td>100%</td>
<td>UNOPS</td>
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<tr>
<td></td>
<td>Activity 1. Exchange national and local government officials/experts for cross-learning of experiences sharing</td>
<td>80%</td>
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<td></td>
<td>Activity 1. Develop regional guidelines for incorporating Code of Conduct for Responsible Fisheries in YSLME context.</td>
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<tr>
<td></td>
<td>Activity 1. Implement YSLME Communication and Awareness Raising 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</td>
<td>10%</td>
<td>90%</td>
<td>UNOPS</td>
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<td>Activity 1. Develop regional guidelines for incorporating Code of Conduct for Responsible Fisheries in YSLME context.</td>
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Subtotal 1.2.1

Subtotal 1.3.1

Subtotal 1.3.2

Subtotal 1.3.3
**EXPECTED OUTPUTS/OUTCOMES INDICATORS**

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<th>RESPONSIBLE PARTY</th>
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<td></td>
<td><strong>2019</strong></td>
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<tr>
<td>1) Code of Conduct for Responsible Fisheries adapted as regional guidelines agreed by China and RO Korea 2) national guidelines to implement regional guidelines</td>
<td>Activity 2. Technical assistance to develop national standards and management measures to comply with regional guidelines of Code of Conduct for Responsible Fisheries, and trainings.</td>
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<td><strong>Output 1.4.1</strong></td>
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<td></td>
<td></td>
<td>Q2</td>
<td>100%</td>
<td>UNOPS</td>
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<td>Q4</td>
<td>100%</td>
<td>UNOPS</td>
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<tr>
<td><strong>Output 1.5.1</strong></td>
<td><strong>OUTCOME 2.1 Recovery of depleted fish stocks as shown by increasing mean trophic level</strong></td>
<td>IICA (Technical Assistance)</td>
<td>25%</td>
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<td></td>
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<td>LIC (Technical Assistance)</td>
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<td>UNOPS</td>
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<td>LIC (Project Negotiation and coordination)</td>
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<tr>
<td><strong>SUBTOTAL Component 1 Personnel/Staff Travel/Fee</strong></td>
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**COMPONENT 2. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO PROVISIONING SERVICES**

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<td><strong>Outcome 2.1</strong></td>
<td><strong>Reduction of fishing by around 10% in demonstration sites through e.g. boat buy-back scheme over the duration of the project.</strong></td>
<td>Activity 1. Assess socio-economic implications of buy-back schemes at two demonstration sites (one site each in China and RO Korea)</td>
<td>Q1</td>
<td>70%</td>
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<td>Activity 2. Livelihood support and education to increase re-employment for displaced fishermen.</td>
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**COMPONENT 1 SUBTOTAL**

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**SUBTOTAL Component 1 Personnel/Staff Travel/Fee**

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**COMPONENT 2. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO PROVISIONING SERVICES**

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<th><strong>RESPONSIBLE PARTY</strong></th>
<th><strong>PLANNED BUDGET</strong></th>
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<td>Q1</td>
<td>70%</td>
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<td>Activity 2. Livelihood support and education to increase re-employment for displaced fishermen.</td>
<td>Q2</td>
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**COMPONENT 1 SUBTOTAL**

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<th><strong>PLANNED BUDGET</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outcome 2.1</strong></td>
<td><strong>Reduction of fishing by around 10% in demonstration sites through e.g. boat buy-back scheme over the duration of the project.</strong></td>
<td>Activity 1. Assess socio-economic implications of buy-back schemes at two demonstration sites (one site each in China and RO Korea)</td>
<td>Q1</td>
<td>70%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Activity 2. Livelihood support and education to increase re-employment for displaced fishermen.</td>
<td>Q2</td>
<td>20%</td>
</tr>
</tbody>
</table>
### OUTCOME 2.1 Recovery of depleted fish stocks as shown by increasing mean trophic level

**End of project target:**
1. 10% reduction in fishing boats in YS;
2. Livelihoods of affected fisher folks maintained at pre-buy-back scheme level or increased at 2 demonstration sites

**Targets in 2019:**
1. Social safeguards review report of fishing boat buy-back scheme and alternative livelihoods options recommendations made;
2. 250 fishermen trained in the reemployment skills and with 90 percent of reemployment

<table>
<thead>
<tr>
<th>Output/outcome indicators and annual indicator targets/ benchmarks (if applicable)</th>
<th>List all activities to be undertaken (including evaluations and publications etc.)</th>
<th>TIMEFRAME</th>
<th>RESPONSIBLE PARTY</th>
<th>PLANNED BUDGET</th>
<th>Source of Funds</th>
<th>COA</th>
<th>description</th>
<th>2019</th>
<th>Total (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<tr>
<td>Targets in 2019</td>
<td></td>
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</tr>
<tr>
<td>1) social safeguards review report of fishing boat buy-back scheme and alternative livelihoods options recommendations made;</td>
<td>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</td>
<td>100%</td>
<td>72300</td>
<td>PCA with YSFRI</td>
<td>17,502</td>
<td>17,502</td>
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</tr>
<tr>
<td>2) 250 fishermen trained in the reemployment skills and with 90 percent of reemployment</td>
<td>Subtotal 2.1.1</td>
<td></td>
<td>$325,226</td>
<td>$325,226</td>
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<td>Subtotal 2.1.1</td>
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</tbody>
</table>
| **OUTCOME 2.2 enhanced fish stocks through restocking and habitat improvement**

**End of project target:**
1) 5% improvements in standing stock and CPUE in 3 demo sites;
2) Future management decisions on restocking based on effectiveness

**Targets in 2019:**
1) Assessment report prepared on fish restocking including replanting, gear selectivity and artificial reef and buy-back scheme and closure in time; 2) Marine ranching and gear management experiences shared across sites through two study visits;

<table>
<thead>
<tr>
<th>Output 2.2.1 Science-based management of fisheries</th>
<th>Activity 1: Technical assistance to improve techniques of replanting of sea grass/macroalgae</th>
<th>100%</th>
<th>72300</th>
<th>PCA with YSFRI</th>
<th>14,781</th>
<th>14,781</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Activity 2: study visit to improve techniques of artificial reefs construction and placement</td>
<td>100%</td>
<td>71600</td>
<td>4 scientists<em>2 countries</em>10 days</td>
<td>28,000</td>
<td>28,000</td>
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<tr>
<td></td>
<td>Activity 3: Monitoring of implementation results in three demo sites</td>
<td>100%</td>
<td>72300</td>
<td>PCA with YSFRI</td>
<td>14,562</td>
<td>14,562</td>
</tr>
<tr>
<td></td>
<td>Activity 4: joint assessment of the effectiveness of closure and buy-back scheme</td>
<td>100%</td>
<td>72300</td>
<td>PCA with YSFRI</td>
<td>33,460</td>
<td>33,460</td>
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<td>Subtotal 2.2.1</td>
<td></td>
<td></td>
<td>$90,803</td>
<td>$90,803</td>
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</tbody>
</table>
| **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 and nutrients from mariculture in demo sites;
2) 10% increase in production per unit area;

**Targets in 2019:**
1) IMTA training module in English and Chinese prepared and published;
2) One regional training course on IMTA conducted and proceeding prepared;
3) GAP of IMTA developed;
4) IMTA system in three demonstration sites constructed and monitoring equipment generate first reports;

<table>
<thead>
<tr>
<th>Output 2.3.1 Widespread practice of sustainable mariculture, where appropriate, increasing productivity and reducing pollution.</th>
<th>Activity 1: Develop GAP for IMTA</th>
<th>100%</th>
<th>71200</th>
<th>40 days* $400/day</th>
<th>7,900</th>
<th>7,900</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Activity 2: survey of coastal areas suitable for operation of IMTA, and economic analysis of benefits for replication of IMTA in Shandong.</td>
<td>100%</td>
<td>72300</td>
<td>PCA with YSFRI</td>
<td>15,820</td>
<td>15,820</td>
</tr>
<tr>
<td></td>
<td>Activity 3: Develop plan to promote IMTA in Shandong</td>
<td>100%</td>
<td>72300</td>
<td>PCA with YSFRI</td>
<td>12,232</td>
<td>12,232</td>
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<tr>
<td>Subtotal 2.3.1</td>
<td></td>
<td></td>
<td>$57,224</td>
<td>$57,224</td>
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</tbody>
</table>
| **Output 2.3.2 Adoption of integrated multi-trophic aquaculture (IMTA) where appropriate**

| Activity 1: Conduct IMTA training workshop | 100% | 71600 | 3 days*8 persons*$300/day +$150/travel *8 persons + venue and food for trainees for 50 people ($30*3days*100 pcs + venue 3days*$1,000/day | 11,300 | 11,300 |
|---|---|---|---|---|---|---|
| Activity 2: support to demonstrate IMTA in three sites | 100% | 72300 | PCA with YSFRI | 47,940 | 47,940 |
| | Activity 3: support to demonstrate IMTA in three sites | 100% | 72200 | monitoring equipment (logger and sensors) | 27,911 | 27,911 |
**EXPECTED OUTPUTS/OUTCOMES INDICATORS**

<table>
<thead>
<tr>
<th>INDICATORS</th>
<th>Output/outcome indicators and annual indicator targets/ benchmarks (if applicable)</th>
<th>List all activities to be undertaken (including evaluations and publications etc.)</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>RESPONSIBLE PARTY</th>
<th>Source of Funds</th>
<th>COA</th>
<th>description</th>
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<td>Component 2: subtotal by COA</td>
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<tr>
<td>Component 3: Improving Ecosystem Carrying Regulating and Cultural Services</td>
<td><strong>Outcome 3.1</strong> Ecosystem health improved through a reduction in pollutant discharge (e.g. nutrients) from land-based sources</td>
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<td></td>
<td>End of Project Target: 1) 10 percent reduction in N discharge every 5 years;</td>
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<td></td>
<td>Targets of 2019: 1) agreed pollution monitoring guideline and monitoring network and harmonized methodologies; 2) loading reports of Haizhou Bay; 3) reports on status and production of maps of selected pollutants from sea-based, atmospheric and land-based sources agreed between the two countries</td>
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<tr>
<td></td>
<td><strong>Activity 1.</strong> 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.</td>
<td>100%</td>
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<td></td>
<td><strong>Activity 2.</strong> Support to apply modelling &amp; calculate nutrient loading in hot spots/critical habitats: 1 pilot sites in China and 1 sites in RO Korea;</td>
<td>100%</td>
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<td></td>
<td><strong>Activity 3.</strong> Support for monitoring and data acquisition for sharing on pollutants from atm-based sources</td>
<td>100%</td>
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<tr>
<td></td>
<td><strong>Activity 4.</strong> Support for monitoring and data acquisition for sharing from sea-based sources:</td>
<td>100%</td>
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<td>Output/output indicators and annual indicator targets/ benchmarks (if applicable)</td>
<td>PLANNED ACTIVITIES</td>
<td>TIMEFRAME</td>
<td>RESPONSIBLE PARTY</td>
<td>PLANNED BUDGET</td>
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<tr>
<td><strong>OUTPUT 3.1</strong> Ecosystem health improved through a reduction in pollutant discharge (e.g. nutrients) from land-based sources</td>
<td>List all activities to be undertaken (including evaluations and publications etc.)</td>
<td>2019</td>
<td>Source of Funds</td>
<td>COA</td>
<td>description</td>
<td>2019</td>
<td>Total (USD)</td>
<td></td>
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<tr>
<td>Activity 5: support production of data products of yellow sea agreed by two countries</td>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
<td></td>
<td>72300</td>
<td>PCA with NMEMC</td>
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<td><strong>Subtotal 3.1.2</strong></td>
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<td>$</td>
<td>79,457</td>
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</tr>
<tr>
<td><strong>OUTPUT 3.2</strong> Wider application of pollution-reduction techniques piloted at demonstration sites</td>
<td></td>
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<tr>
<td>End of project target:</td>
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<td></td>
<td>1) 1 nutrient reduction demonstration project invested by 1 local government using wetland regulating services;</td>
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<tr>
<td>Targets in 2019:</td>
<td></td>
<td></td>
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<td></td>
<td>1) completion of regional strategy of using wetland as nutrient sinks and synthesis of good practices of using wetland regulating services to rehabilitate river basin and coastal environments</td>
<td></td>
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<tr>
<td>2) integrated survey report of wetland ecosystem of Jiaozhou Bay of Qingdao</td>
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<tr>
<td><strong>Output 3.2.1. New and innovative techniques for pollution reduction (e.g. artificial wetlands and habitats) applied at demonstration sites</strong></td>
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<tr>
<td>Activity 1. Synthesize good practices and develop regional strategy for using wetlands as nutrient sink</td>
<td></td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>71200</td>
<td>ongoing individual consultancy</td>
<td>9,040</td>
<td>9,040</td>
</tr>
<tr>
<td>Activity 2. integrated survey of wetland ecosystem of Jiaozhou Bay of Qingdao</td>
<td></td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>72300</td>
<td>subcontract to be issued</td>
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<td><strong>Subtotal 3.2</strong></td>
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<td></td>
<td></td>
<td>$</td>
<td>348,040</td>
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</tr>
<tr>
<td><strong>OUTPUT 3.3</strong> Strengthened legal and regulatory processes to control pollution</td>
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<td>End of project target:</td>
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<td></td>
<td>1) harmonized national and provincial legislation to improve coastal water quality in Shandong, Jiangsu and Liaoning Provinces</td>
<td></td>
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<tr>
<td>Targets in 2019:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>1) number of new provincial regulations to improve water quality on microplastics at national and in coastal provinces</td>
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<tr>
<td>2) training module on microplastic assessment</td>
<td></td>
<td></td>
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<td></td>
<td>3) training on microplastics organized;</td>
<td></td>
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</tr>
<tr>
<td><strong>Output 3.3.1 Strengthened legal instruments and better regulatory processes to control pollution</strong></td>
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<tr>
<td>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</td>
<td></td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>71200</td>
<td>ongoing individual consultancy</td>
<td>4,520</td>
<td>4,520</td>
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<tr>
<td>Activity 2. preparation of training modules and conduct of training in application of SOP of microplastics monitoring and assessment</td>
<td></td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>71600</td>
<td>training workshop on marine litter and microplastics monitoring guidelines: 3 days<em>4 persons</em>300/day +5350/travel +4 persons</td>
<td>5,650</td>
<td>5,650</td>
</tr>
<tr>
<td>Activity 3. support to develop regulatory measures for marine litter monitoring, disposal, handling, reuse, recycle in Weihai to enable investment on recycling economies.</td>
<td></td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
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<td>75700</td>
<td>workshops venue and food: for 50 people ($30<em>3days</em>50 pcs + venue $3days*1,000/day)</td>
<td>8,475</td>
<td>8,475</td>
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<td><strong>Activity 4</strong> Marine litter controlled at</td>
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<tr>
<td><strong>Output 3.4.1 Procedures in place to control and remove marine litter at demonstration sites</strong></td>
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<tr>
<td><strong>SUBTOTAL 3.3</strong></td>
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<td></td>
<td></td>
<td>$</td>
<td>81,845</td>
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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
**Output/outcome indicators and annual indicator targets/ benchmarks (if applicable)**

List all activities to be undertaken (including evaluations and publications etc.)

<table>
<thead>
<tr>
<th>TIMEFRAME</th>
<th>RESPONSIBLE PARTY</th>
<th>PLANNED BUDGET</th>
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</thead>
<tbody>
<tr>
<td>2019</td>
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<tr>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
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<tr>
<td>100%</td>
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<td>100%</td>
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<tr>
<td>20%</td>
<td>80%</td>
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**SUBTOTAL 3.4 $ 81,188 $ 81,188**

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<th>Source of Funds</th>
<th>COA</th>
<th>description</th>
<th>2019</th>
<th>Total (USD)</th>
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<tbody>
<tr>
<td>IICA (Technical Assistance):</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>UNOPS</td>
<td>GEF</td>
<td>71200</td>
<td>147,625</td>
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<tr>
<td>IICA (Project Negotiation and coordination):</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>71200</td>
<td>-</td>
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<tr>
<td>Staff Travel Cost:</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>71600</td>
<td>25,074</td>
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**SUBTOTAL 3 Personnel/Staff Travel/fee $ 172,699 $ 172,699**

**COMPONENT 3: Subtotal by COA**

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<th>2019</th>
<th>Total (USD)</th>
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<td>72300</td>
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<td>8,475</td>
<td>8,475</td>
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**COMPONENT 3 SUBTOTAL $ 806,019 $ 806,019**

**COMPONENT 4: IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO SUPPORTING SERVICES**

**OUTCOME 4.1: Maintenance of current habitats and the monitoring and mitigation of the impacts of reclamation**

**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**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th>Source of Funds</th>
<th>COA</th>
<th>description</th>
<th>2019</th>
<th>Total (USD)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>UNOPS</td>
<td>GEF</td>
<td>71200</td>
<td>ongoing individual consultancy</td>
<td>40,000</td>
</tr>
</tbody>
</table>

**Activity 2: Identify approved reclamation up to 2015 in each country, and any further reclamation from 2016 on**

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th>Source of Funds</th>
<th>COA</th>
<th>description</th>
<th>2019</th>
<th>Total (USD)</th>
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<tr>
<td></td>
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<td>UNOPS</td>
<td>GEF</td>
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</table>
**EXPECTED OUTPUTS/OUTCOMES INDICATORS**

<table>
<thead>
<tr>
<th>Output/outcome indicators and annual indicator targets/ benchmarks (if applicable)</th>
<th>PLANNED ACTIVITIES</th>
<th>TIMEFRAME</th>
<th>RESPONSIBLE PARTY</th>
<th>PLANNED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>List all activities to be undertaken (including evaluations and publications etc.)</td>
<td><strong>Activity 1</strong>: Analysis of country coastal management guidelines, identification of conservation areas according to planning zones</td>
<td>Q1</td>
<td>100%</td>
<td>UNOPS</td>
</tr>
<tr>
<td></td>
<td>Activity 2: 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</td>
<td>Q2</td>
<td>100%</td>
<td>72300</td>
</tr>
<tr>
<td></td>
<td>Activity 3: Conduct 1 regional training seminar focusing on enhancing connectivity in MPA network</td>
<td>Q3</td>
<td>100%</td>
<td>72300</td>
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<tr>
<td></td>
<td>Activity 4: Spotted seals connectivity satellite tracking monitoring/ endangered migratory birds and MPA network strengthening for increased connectivity and effectiveness in selected MPAs</td>
<td>Q4</td>
<td>100%</td>
<td>72100</td>
</tr>
<tr>
<td><strong>SUBTOTAL 4.1</strong></td>
<td><strong>OUTCOME 4.2</strong>: MPA Network strengthened in the Yellow Sea</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Output 4.2.1 MPA networks strengthened in the YSLME</strong></td>
<td>End of project target:</td>
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</tr>
<tr>
<td>Activity 1: Analysis of country coastal management guidelines, identification of conservation areas according to planning zones</td>
<td>Q1</td>
<td>100%</td>
<td>UNOPS</td>
<td>72300</td>
</tr>
<tr>
<td>Activity 2: 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</td>
<td>Q2</td>
<td>100%</td>
<td>72300</td>
<td>PCA with YSFRI to be delivered by August 30, 2019</td>
</tr>
<tr>
<td>Activity 3: Conduct 1 regional training seminar focusing on enhancing connectivity in MPA network</td>
<td>Q3</td>
<td>100%</td>
<td>72300</td>
<td>PCA with FIO to be delivered by August 30, 2019</td>
</tr>
<tr>
<td>Activity 4: Spotted seals connectivity satellite tracking monitoring/ endangered migratory birds and MPA network strengthening for increased connectivity and effectiveness in selected MPAs</td>
<td>Q4</td>
<td>100%</td>
<td>72100</td>
<td>Equipment (10 Satellite tracking devices)</td>
</tr>
<tr>
<td><strong>SUBTOTAL 4.2</strong></td>
<td><strong>OUTCOME 4.3</strong>: 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</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>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</strong></td>
<td>End of project target:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activity 1: Stock-taking of vulnerabilities of coastal communities and ecosystem services in YSLME to impact of climate change</td>
<td>Q1</td>
<td>100%</td>
<td>UNOPS</td>
<td>72300</td>
</tr>
<tr>
<td>Activity 2: 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</td>
<td>Q2</td>
<td>100%</td>
<td>UNOPS</td>
<td>72300</td>
</tr>
</tbody>
</table>
### 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/OUOUTCOMES INDICATORS

Output/outcome indicators and annual indicator targets/ benchmarks (if applicable)

<table>
<thead>
<tr>
<th>Output/outcome indicators and annual indicator targets/benchmarks (if applicable)</th>
<th>PLANNED ACTIVITIES</th>
<th>TIMEFRAME</th>
<th>RESPONSIBLE PARTY</th>
<th>PLANNED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>List all activities to be undertaken (including evaluations and publications etc.)</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
</tr>
<tr>
<td>1) 2 coastal ICM model framework plans in coastal provinces and cities incorporate CC adaptation to improve climate resilience</td>
<td>Activity 3: Develop CC adaptation ICM model framework plan or strategic framework plan for 1 coastal city or province</td>
<td>100%</td>
<td>UNOPS</td>
<td>GEF</td>
</tr>
<tr>
<td>2) Study report on seasonality and inter-annual variability of the floating Sargassum horneri in western Yellow Sea and recommendations</td>
<td>Activity 4: Study on seasonality and inter-annual variability of the floating Sargassum horneri in western Yellow Sea</td>
<td>100%</td>
<td>UNOPS</td>
<td>GEF</td>
</tr>
<tr>
<td>Targets in 2019:</td>
<td></td>
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<tr>
<td>1) assessment report of climate change impact on coastal communities and ecosystem services;</td>
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<tr>
<td>2) Synthesis report of climate change effect on ecosystems</td>
<td></td>
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<tr>
<td>3) one coastal city or province adopts or integrate climate adaptation into sectoral and/or development plans;</td>
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</tbody>
</table>

SUBTOTAL 4.3 $382,200 $382,200

#### OUTCOME 4.4 Application of ecosystem-based community management (EBCM) preparing risk management plans to address climate variability and coastal disasters

<table>
<thead>
<tr>
<th>Output 4.4.1 Public awareness of Yellow Sea environmental problems enhanced; strong local support for and awareness of demonstration activities</th>
<th>PLANNED ACTIVITIES</th>
<th>TIMEFRAME</th>
<th>RESPONSIBLE PARTY</th>
<th>PLANNED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity 1: Implement the SGP and conduct M&amp;E, communication and other management activities</td>
<td>25%</td>
<td>UNOPS</td>
<td>GEF</td>
<td>72600</td>
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</table>

Subtotal 4.4.1 $802,047 $802,047

<table>
<thead>
<tr>
<th>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</th>
<th>PLANNED ACTIVITIES</th>
<th>TIMEFRAME</th>
<th>RESPONSIBLE PARTY</th>
<th>PLANNED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity 1: Make regional assessment (including trend of introduced species in the region) and make policy-relevant recommendations</td>
<td>100%</td>
<td>UNOPS</td>
<td>GEF</td>
<td>72300</td>
</tr>
<tr>
<td>Activity 2: Create regional jellyfish monitoring program: Create regional committee to coordinate monitoring, assessment and data sharing, and</td>
<td>100%</td>
<td>72300</td>
<td>PCA with NMEMC</td>
<td>33,600</td>
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<tr>
<td>Activity 3: 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;</td>
<td>100%</td>
<td>72300</td>
<td>PCA with NMEMC</td>
<td>24,760</td>
</tr>
<tr>
<td>Activity 4: Establish a comprehensive regional monitoring system: Develop regional monitoring strategies for N/P/Si changes, climate change, jellyfish blooms, and HAB</td>
<td>100%</td>
<td>72300</td>
<td>PCA with NMEMC</td>
<td>17,920</td>
</tr>
<tr>
<td>Activity 5: Publish training modules IMTA, MPA networking and synergizing implementation of environmental treaties and agreements using EBM</td>
<td>25%</td>
<td>UNOPS</td>
<td>GEF</td>
<td>71200</td>
</tr>
</tbody>
</table>
**OUTPUT/OUTCOME INDICATORS**
List all activities to be undertaken (including evaluations and publications etc.)

<table>
<thead>
<tr>
<th>Timeframe</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
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</thead>
<tbody>
<tr>
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**SOURCE OF FUNDS**

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<tr>
<th>Source of Funds</th>
<th>Total (USD)</th>
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**EXPECTED OUTPUTS/OUTCOMES INDICATORS**

<table>
<thead>
<tr>
<th>Activity Description</th>
<th>PLANNED ACTIVITY</th>
<th>TIMEFRAME</th>
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<th>PLANNED BUDGET</th>
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<tbody>
<tr>
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</table>

**TOTAL (USD)**

<table>
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<tr>
<th>Source of Funds</th>
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**COMPONENT 4: Subtotal by COA**

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**COMPONENT 5: Subtotal by COA**

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**SUBTOTAL OF COMPONENT 1-5**

<table>
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<th>Source of Funds</th>
<th>Total (USD)</th>
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