



**The 2nd Regional Scientific and Technical Committee Meeting for
the SEAFDEC/UN Environment/GEF Project on Establishment and Operation of
a Regional System of Fisheries *Refugia* in the South China Sea and Gulf of Thailand**

21st – 23rd May 2019

Thansur Sokha Hotel, Kampot Province (Fisheries Refugia Site), Cambodia

COSTED WORKPLAN FOR 2019/Q2-Q3

MALAYSIA

**SEAFDEC/UNEP/GEF South China Sea Fisheries Refugia Initiative
MALAYSIA
[APR - JUNE 2019]**

Key Result Area	Related Target	Planned Activities(s)	Anticipated Deliverable/ Timeline	Status	Inputs/ Support Required	Agreed Follow-up
Component 1						
Component 1. Identification and management of fisheries and critical habitat linkages at 3 priority fisheries refugia in Malaysia 1.1 Developing fisheries and coastal habitat information and data collection programmes for (1) Tg. Leman, Johor	1.1.4 Design and conduct fisheries surveys at the 2 sites and submit data to a national online database	Conduct resource surveys at refugia site Site 1: Tj. Leman Site 2: Kuala Baram	2 survey reports	Need to conduct survey at 2 sites (Johor and K. Baram)	<u>Tj Leman:</u> Estimated wage of field workers: RM7,000 x 3 trips Consumables: RM4,000 Total cost for 3 trips: RM25,000 <u>K. Baram:</u> Cost for 3 months: RM25,000 TOTAL: 50,000 (USD 12,043.75)	
	1.2.1 Conduct consultations (including at-sea) to draft maps of fisheries refugia for priority species	Stakeholder consultation workshop for Tj. Leman site	1 report	Need to coordinate with the fishery district office for a suitable date, venue and number of participants	-	Use national fund
	1.3.1 Consultations to identify key threats to fisheries <i>refugia</i> sites and identify management measures	Stakeholder consultation workshop for Tj. Leman site	1 report (refer to 1.2.1)	Need to coordinate with the fishery district office for a suitable date, venue and number of participants	-	Use national fund
Component 2						
Component 2: Improving the management of critical habitats for fish stocks of transboundary	2.1.1 Identify and document key threats from fishing and the environment to fish stock	Compilation of reports and literature concerning the subject	Reports	Need to identify and document key threats from fishing and the environment to fish	-	Use national fund

<p>significance via national actions to strengthen the enabling environment and knowledge-base for fisheries refugia management in Malaysia</p> <p>2.1 Enhancing policy guidance for improved management of the effects of fishing on critical habitats</p>	<p>and critical habitat linkages</p>			<p>stock and critical habitat linkages</p>		
<p>2.5 Enhancing access to information relating to status and trends in fish stocks and their habitats in Malaysia waters of the SCS</p>	<p>2.5.1 Compile information and data derived from abundance surveys for longer-term management.</p>	<p>Compilation of literature and past reports</p>	<p>1 report compilation</p>	<p>Need to identify past survey report and literature</p>	<p>-</p>	<p>Use national fund</p>
	<p>2.5.2 Compile information and data derived from surveys on size-frequency of priority species</p>	<p>Compilation of literature and past reports</p>	<p>1 report compilation</p>	<p>Need to identify past survey report and literature</p>	<p>-</p>	<p>Use national fund</p>
	<p>2.5.3 Compile information and data on landings of priority species (volume/value, fishing areas and gears)</p>	<p>Compilation of literature and past reports</p>	<p>1 report compilation</p>	<p>Need to identify past survey report and literature</p>	<p>-</p>	<p>Use national fund</p>
<p>2.6 Improving national-level management and sharing of information and data on fish early life history in Malaysia waters of the SCS</p>	<p>2.6.1 Prepare a national inventory of lobster larvae samples collected from Malaysia waters (both analysed and unanalysed)</p>	<p>Analysis and report writing for year 2018 larvae survey</p>	<p>Lobster larvae distribution and density</p>	<p>Analysis and report writing in progress</p>	<p>Need clarification from PCU whether 2.6 is just for lobster and prawn species or other fish species as well</p>	

2.7 Enhancing access to information relating to the locations and status of coastal habitats and management areas in Malaysia waters of the SCS	2.7.1 Compile and update information and data in a National Google Earth based GIS on: distribution of habitats; known spawning areas; locations of refugia; MPAs; fisheries management areas; critical habitats for endangered species	Compilation of data required	2 reports	Need clarification from PCU on the type of GIS application used	-	-
Component 3						
Component 3: Information Management and Dissemination in support of national-level implementation of the fisheries refugia concept in Malaysia	3.1.1 Quarterly capture and documentation of best practices in the establishment and operation of fisheries refugia	Printing of refugia related publication	2 publications	Need to compile and prepare publication	-	Use national fund
3.1 Enhancing national uptake of best practices in integrating fisheries management and biodiversity conservation	3.1.2 Online catalogue of best practices approaches and measures developed and updated each 6 months	Upload of refugia related information into DOFM website	1 online catalogue	Need to identify best practices approaches and measures	-	Use national fund
	3.1.3 6 monthly development of communications on best practices for dissemination and syndication	1 Meeting	Meeting report including participant list	Need to determine suitable date	-	Use national fund
3.2 Improving community acceptance of area based approaches to marine management	3.2.1 Produce locally appropriate public awareness and outreach materials to promote local social, economic and environmental benefits of fisheries refugia	Upgrade of Refugia Information Centers	Upgraded information centers	Need to enhance public awareness materials and upgrade of Refugia Information Centers	-	Use national fund

3.3 Knowledge generated and experiences from establishing and operating fisheries refugia captured and shared nationally, regionally, and globally	3.3.1 Establish and operate national web portal for knowledge management on fisheries refugia	Upload of refugia related information into DOFM website	1 online catalogue	Need to identify best practices approaches and measures	-	Use national fund
Component 4						
Component 4. National coordination for integrated fish stock and critical habitat management in Malaysia	4.1.2 Establish and convene quarterly meetings of the National Fisheries Refugia Committee (NFRC)	1 Meeting	Meeting report including participant list	NFRC meeting scheduled for 29 th May 2019	RM15,000 (USD3,610.20)	
	4.1.3 NFRC review and endorsement of quarterly work plans and progress and financial reports, including tracking of continuity of participation of stakeholders	Incorporate in 4.1.2				
	4.1.4 National NFRC inputs to mid-term review and terminal evaluation of national and regional aspects of project	Incorporate in 4.1.2				
4.2 Harnessing national scientific and technical expertise and knowledge to inform policy, legal and institutional reforms for fisheries refugia	4.2.1 Establish and convene 6 monthly meetings of the National Technical Working Group	1 Meeting and Seminar	Meeting report including participant list	Need to determine suitable date	RM10,000 (USD2,406.80)	
	4.2.2 Provision of technical and scientific inputs to planning of activities in components 1, 2 and 3	Incorporate in 4.2.1	-	-	-	
4.3 Catalyzing local community action via establishment and operation of site-based management boards at 2 priority refugia sites	4.3.2 Establish and convene quarterly meetings of site-based management boards	1 meeting in Kuala Baram Refugia site	1 meeting report	Need to determine suitable date	RM7,000 (USD1,684.76)	
	4.3.3 Preparation of quarterly work plans and progress and financial reports on activities at each site	Appointment of a Project Manager	quarterly work plans and progress and financial reports	Need to appoint suitable person for the post	RM11,440 for wage and travel expenses (USD 2,753.38)	

Training and Capacity Development						
Planned Attendance at Workshops/ Meetings						
TOTAL						RM93,440 (USD 22,498.89)

**SEAFDEC/UNEP/GEF South China Sea Fisheries Refugia Initiative
MALAYSIA
[JUL - SEPT 2019]**

Key Result Area	Related Target	Planned Activities(s)	Anticipated Deliverable/ Timeline	Status	Inputs/ Support Required	Agreed Follow-up
Component 1						
Component 1. Identification and management of fisheries and critical habitat linkages at 3 priority fisheries refugia in Malaysia 1.1 Developing fisheries and coastal habitat information and data collection programmes for (1) Tg. Leman, Johor	1.1.4 Design and conduct fisheries surveys at the 2 sites and submit data to a national online database	Conduct resource surveys at refugia site Site 1: Tj. Leman Site 2: Kuala Baram Collaborative studies with Universities Site 1: Tj. Leman Site 2: Kuala Baram	2 survey reports 2 study reports	Need to conduct survey at 2 sites (Johor and K. Baram) Research proposals submitted by universities interested in conducting collaborative studies. Need to evaluate proposals and conduct further discussion with universities on collaborations	<u>Tj Leman:</u> Estimated wage of field workers: RM7,000 x 3 trips Consumables: RM4,000 Total cost for 3 trips: RM25,000 University collaborative study : RM30,000 <u>K. Baram:</u> Cost for 3 months: RM25,000 University collaborative	

					study : RM30,000 TOTAL: 110,000 (USD 26,474.25)	
1.2 Facilitating agreement among stakeholders on the boundaries of fisheries refugia at the (1) Tg. Leman, Johor and (2) Kuala Baram, Sarawak sites	1.2.1 Conduct consultations (including at-sea) to draft maps of fisheries refugia for priority species	Stakeholder consultation workshop for K. Baram site	1 report	Need to coordinate with the fishery district office for a suitable date, venue and number of participants	RM15,000 (USD 3,610.13)	
	1.2.2 Prepare maps for 2 refugia and elicit fisherfolk input to boundary delineation through consultation	Incorporate in 1.2.1				
	1.2.3 Conduct assessment of environmental and social impacts of designation of sites as refugia	Compilation of data and report writing	1 report	Ongoing socio-economic survey	-	Use national fund
	1.2.4 Secure formal municipal/local government designation of site as fisheries refugia	Consultations with the municipal/local government	2 meeting reports	Need to coordinate with the fishery district office for a suitable date to meet with local governments	-	Use national fund
1.3 Developing Community-Based Management Plans for the (1) Tg. Leman, Johor and (2) Kuala Baram, Sarawak sites	1.3.1 Consultations to identify key threats to fisheries <i>refugia</i> sites and identify management measures	Stakeholder consultation workshop for K. Baram site	1 report (refer to 1.2.1)	Need to coordinate with the fishery district office for a suitable date, venue and number of participants	-	Use national fund
	1.3.2 Management plans for 2 sites developed through community-based consultations	EAFM workshops for fishermen at 2 sites	2 workshop reports	Need to coordinate with the fishery district office for a suitable date, venue and number of participants	<u>Tj. Leman:</u> RM20,000 <u>K. Baram:</u> RM20,000 Total: RM40,000 (USD 9,627.00)	

1.4 Establishing operational management for the (1) Tg. Leman, Johor and (2) Kuala Baram, Sarawak sites	1.4.1 Establish management teams and a site-based volunteer network at 2 sites	Appointment of management team members for both sites	2 site-based management teams	Need to coordinate with the fishery district office to identify suitable candidates for appointment	-	Use national fund
	1.4.2 Conduct practical capacity building programme for management volunteers at 2 sites	Incorporate in 1.3.2			-	Use national fund
Component 2						
Component 2: Improving the management of critical habitats for fish stocks of transboundary significance via national actions to strengthen the enabling environment and knowledge-base for fisheries refugia management in Malaysia	2.1.1 Identify and document key threats from fishing and the environment to fish stock and critical habitat linkages	Compilation of reports and literature concerning the subject	Reports	Need to identify and document key threats from fishing and the environment to fish stock and critical habitat linkages	-	Use national fund
	2.1.2 Formulate recommendations on policy and legal reforms to support promotion of responsible fishing	2 meetings	2 meeting reports	Need to determine suitable date	-	Use national fund
2.1 Enhancing policy guidance for improved management of the effects of fishing on critical habitats						
2.5 Enhancing access to information relating to status and trends in fish stocks and their habitats in Malaysia waters of the SCS	2.5.1 Compile information and data derived from abundance surveys for longer-term management.	Compilation of literature and past reports	1 report compilation	Need to identify past survey report and literature	-	Use national fund
	2.5.2 Compile information and data derived from surveys on size-frequency of priority species	Compilation of literature and past reports	1 report compilation	Need to identify past survey report and literature	-	Use national fund

	2.5.3 Compile information and data on landings of priority species (volume/value, fishing areas and gears)	Compilation of literature and past reports	1 report compilation	Need to identify past survey report and literature	-	Use national fund
2.6 Improving national-level management and sharing of information and data on fish early life history in Malaysia waters of the SCS	2.6.1 Prepare a national inventory of lobster larvae samples collected from Malaysia waters (both analysed and unanalysed)	Analysis and report writing for year 2018 larvae survey	Lobster larvae distribution and density	Analysis and report writing in progress	Need clarification from PCU whether 2.6 is just for lobster and prawn species or other fish species as well	
2.7 Enhancing access to information relating to the locations and status of coastal habitats and management areas in Malaysia waters of the SCS	2.7.2 Compile and update information and data in a National Google Earth based GIS on: distribution of habitats; known spawning areas; locations of refugia; MPAs; fisheries management areas; critical habitats for endangered species Prepare annual synthesis of new and additional information included in database (2.7.1)	2 data compilation workshops	2 workshop reports	Need clarification from PCU on the type of GIS application used	<u>Tj. Leman:</u> RM5,000 <u>K. Baram:</u> RM5,000 Total: RM10,000 (USD 2,406.75)	-
Component 3						
Component 3: Information Management and Dissemination in support of national-level implementation of the fisheries refugia concept in Malaysia 3.1 Enhancing national uptake of best practices in integrating fisheries	3.1.1 Quarterly capture and documentation of best practices in the establishment and operation of fisheries refugia	Printing of refugia related publication	2 publications	Need to compile and prepare publication	-	Use national fund

management and biodiversity conservation						
3.2 Improving community acceptance of area based approaches to marine management	3.2.1 Produce locally appropriate public awareness and outreach materials to promote local social, economic and environmental benefits of fisheries refugia	Upgrade of Refugia Information Centers	Upgraded information centers	Need to enhance public awareness materials and upgrade of Refugia Information Centers	Tj. Leman: RM10,000 K. Baram: RM10,000 Total: RM20,000 (USD 4,813.50)	
3.3 Knowledge generated and experiences from establishing and operating fisheries refugia captured and shared nationally, regionally, and globally	3.3.1 Establish and operate national web portal for knowledge management on fisheries refugia	Upload of refugia related information into DOFM website	1 online catalogue	Need to identify best practices approaches and measures	-	Use national fund
Component 4						
Component 4. National coordination for integrated fish stock and critical habitat management in Malaysia	4.1.2 Establish and convene quarterly meetings of the National Fisheries Refugia Committee (NFRC)	1 Meeting	Meeting report including participant list	NFRC meeting scheduled for 29 th May 2019	RM15,000 (USD3,610.20)	
4.1 Strengthened cross-sectoral coordination in the establishment and operation of fisheries refugia in Malaysia	4.1.3 NFRC review and endorsement of quarterly work plans and progress and financial reports, including tracking of continuity of participation of stakeholders	Incorporate in 4.1.2				
	4.1.4 National NFRC inputs to mid-term review and terminal evaluation of national and regional aspects of	Incorporate in 4.1.2				

	project					
4.2 Harnessing national scientific and technical expertise and knowledge to inform policy, legal and institutional reforms for fisheries refugia	4.2.1 Establish and convene 6 monthly meetings of the National Technical Working Group	1 Meeting and Seminar	Meeting report including participant list	Need to determine suitable date	RM5,000 (USD 1,203.38)	
	4.2.2 Provision of technical and scientific inputs to planning of activities in components 1, 2 and 3	Incorporate in 4.2.1	-	-	-	
4.3 Catalyzing local community action via establishment and operation of site-based management boards at 2 priority refugia sites	4.3.2 Establish and convene quarterly meetings of site-based management boards	3 meetings Site 1: Tj. Leman (2 meetings) Site 2: K. Baram (1 meeting)	3 meeting report	Need to determine suitable date	<u>Tj. Leman:</u> RM4,000 <u>K. Baram:</u> RM7,000 Total: RM11,000 (USD 2,647.43)	
	4.3.3 Preparation of quarterly work plans and progress and financial reports on activities at each site	Appointment of a Project Manager	quarterly work plans and progress and financial reports		RM11,440 for wage and travel expenses (USD 2,753.38)	
Training and Capacity Development						
Planned Attendance at Workshops/ Meetings						
TOTAL					RM237,440 (USD 57,146.02)	

