Action Plan for Vietnam Kien Giang Blue Swimming Crab Fishery Improvement Project (FIP)

DRAFT REPORT

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Acronyms

Vietnamese Institutions Acronyms

DARD Department of Agriculture and Resource

Development

DECAFIREP Department of Capture Fisheries & Resource

Exploitation and Protection

MARD the Ministry of Agriculture and Resource

Development

NIO Nha Trang Institute of Oceanography
PPC Provincial People's Committees

RIMF Research Institute for Fisheries Management

TFMC Tuna Fisheries Management Council

VASEP Vietnam Association of Seafood Exporters and

Producers

WWF World Wildlife Fund (Vietnam)

Fisheries Management Acronyms

EEZ Exclusive Economic Zone
CAC Crab Advisory Council
CMC Crab Management Council
CMP Crab Management Plan

IUUIllegal, Unreported and UnregulatedMoUMemorandum of UnderstandingNTMPNational Tuna Management PlanUNFSAUnited Nations Fish Stocks Agreement

MSC Acronyms

BMT MSC FIP Benchmarking and Monitoring Tool

CSA Consequence Susceptibility Analysis
Ecosystem Approach to Fisheries

EAFM Management

ETP Endangered, Threatened and Protected

FIP Fishery Improvement Project
MSC Marine Stewardship Council
PRA Participatory Rural Appraisal
PSA Productivity Sensitivity Analysis

RBF Risk Based Framework
RRA Rapid Rural Appraisal

Scale Intensity Consequence Analysis

SICA

1. INTRODUCTION

The original fisheries improvement project (FIP) Action Plan was developed following a FIP stakeholder meeting held in Kien Giang, Vietnam in June 2010, and was finalized in July 2010. The purpose of this document is to update the Action Plan for 2016-2017, based on results of the FIP review meeting held in Rach Giang, Vietnam on October 16, 2015, and to provide background information on the number of completed, ongoing and new activities that are underway, reconfirm activities which have not yet been implemented, and revise activities based on new information, which may include revisions to the Marine Stewardship Council (MSC) Fisheries Assessment Methodology (FAM) Version 2. The revisions to the Milestones have been made along with some deleted activities which were deemed to be too costly, could be developed in a more efficient way or now redundant in response to changes in the MSC assessment methodology. This revised Action Plan includes information on the proposed milestones for each activity, the scoring guideposts met, the stakeholder organization responsible for implementation, the expected timeframe to complete the task and the current status. Work plans for each outcome and activity had been set in 2010, but were later refined into milestones in December 2012. A project logframe was developed which integrated the milestones set, with the previously defined activities. The milestones and logframe have been adjusted to reflect the changed agreed in the October, 2015 workshop outputs. The document also includes the use of MSCs Benchmark Tracking Tool.

The Units of Certification identified from the 2010 pre-assessment were:

- Blue swimming crab caught by tangle net, Kien Giang Province, Vietnam;
- Blue swimming crab, caught by trap, Kien Giang Province, Vietnam.

This document identifies the activities and range of activities required in the Action Plan for the fisheries to meet the Marine Stewardship Council (MSC) standard. The MSC fisheries assessment methodology, Version 2, is used to define the actions. The most important feature to this is that all target species (Principle 1), must focus on the stock status and management activities throughout the range of the stock, whilst ecosystem interactions (for secondary species¹, and Endangered, Threatened, and Protected (ETP) species) relate specifically to the fishery under assessment.

This document serves to improve the guidance for the activities and milestones required in the Action Plan to reach the MSC Standard, integrating changes and clarifying any areas of uncertainty which may have been identified by the stakeholders during the FIP review meeting in October 2015.

WWF and the Vietnam Association of Seafood Exporters and Producers (VASEP) Crab Council have been supporting the implementation of the FIP and coordinating development of each activity. The overarching management issues fall to DARD. The Crab Advisory Council (CAC) is responsible for coordinating research and providing advice to DARD. The CAC comprises all associated stakeholder groups included DARD (Province and District), fishermen's representatives, processors and WWF. The research functions are supported by the Research Institute for Fisheries Management (RIMF). The Action Plan itself incorporates reference to Stakeholder Terms of Reference (Section 4), which are revised and developed to include changes to timelines and associated budgets. The results generated from the Action Plan are reviewed by the WWF FIP Coordinator (Thuy Nguyendieu)² and the WWF FIP consultant (Richard Banks, Poseidon)³.

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¹ There are no primary species as there are no supporting stock assessments for these species.

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2. FIP PROGRESS

2.1 Review of Performance Indicator Outcomes

An assessment of the current status of the fisheries against the MSC Performance Indicators (PI), based on results of the FIP review meeting, is summarized below. Sixteen (16) performance indicators that were originally assessed to fail an MSC assessment have moved to a pass with seven (7) "pass with conditions". There are two PIs that remain in the fail position, but these are critical to the success of the project. These are stock status and compliance. Evidence also needs to be provided that the implementation of the harvest control strategy and supporting tools will be effective to allow the rebuilding strategy to work.

Table 1: Summary of MSC pre-assessment scoring and revised scoring following the October 2015 FIP review meeting

Principle	Component	PI number	Performance Indicator	Pre assessment scoring	Revised scoring 2015
1	Outcome	1.1.1	Stock status	Fail	Fail. The stock assessment model needs to demonstrate where the biomass is relative to unexploited levels
		1.1.2	Stock rebuilding		Pass with condition as rebuilding should succeed if proposed measures are implemented, but an MSE is required to provide evidence of its effectiveness
	Management	1.2.1	Harvest Strategy	Fail	Pass with condition as the harvest strategy in place requires evidence that it will achieve its objectives
		1.2.2	Harvest control rules and tools	Fail	Pass with condition with a requirement to ensure that the main uncertainties are

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					incorporated
		1.2.3	Information and monitoring	Fail	Pass with good roll out of enumerators and data collection
		1.2.4	Assessment of stock status	Fail	Uncertainties incorporated into the assessment
2	Primary species	2.1.1	Outcome – Tangle net	No primary species	Default pass
			Outcome – Trap	No primary species	Default pass
		2.1.2	Management – Tangle net	No primary species	Default pass
			Management – Trap	No primary species	Default pass
		2.1.3	Information – Tangle net	No primary species	Default pass
			Information – Trap	No primary species	Default pass
	Bycatch species	2.2.1	Outcome - Tangle net		Pass: Low risk minor species
		2.2.1	Outcome – Trap	Pass with condition	Pass: Low risk minor species
		2.2.2	Management – Tangle net	Pass	Pass: Partial strategy: Closed seasons/non fishing in coastal waters
		2.2.2	Management – Trap	Fail	Pass: Partial strategy: Closed seasons/non fishing in coastal waters
		2.2.3	Information – Tangle net	Pass with condition	Pass: Observer data collection
		2.2.3	Information – Trap	Pass with condition	Pass: Observer dat collection:.
	ETP species	2.3.4	Outcome – Tangle net	Fail	Default 100: No ETP interactions

		2.3.1	Outcome – Trap	Pass	Default 100: No ETP interactions
		2.3.2	Management Tangle net	Fail	Pass: Partial strategy: Closed seasons/non fishing in coastal waters and Phu Quoc Reserve
		2.3.2	Management – Trap	Pass	Pass: Partial strategy: Closed seasons/non fishing in coastal waters and Phu Quoc Reserve
		2.3.3	Information – Tangle net	Pass with condition	Pass: Observer dat collection:.
		2.3.3	Information – Trap	Pass with condition	Pass: Observer dat collection:.
	Habitats	2.4.1	Outcome – Tangle net	Pass	Pass: CA/ CSA
		2.4.1	Outcome – Trap	Pass	Pass: CA/ CSA
		2.4.2	Management – Tangle net	Pass	Pass: Partial strategy
		2.4.2	Management – Trap	Pass	Pass: Partial strategy
		2.4.3	Information – Tangle net	Pass with condition	Pass: Qualitative data
		2.4.3	Information – Trap	Pass with condition	Pass: Qualitative data
	Ecosystem	2.5.1	Outcome	Pass	Pass: Intermediate impact
		2.5.2	Management	Pass	Pass: Partial strategy
		2.5.3	Information	Pass with condition	Pass: Qualitative data
3	Governance and Policy	3.1.1	Legal and customary framework	Pass with condition	Pass with condition
		3.1.2	Consultation, roles and responsibilitie s	Fail	Pass
		3.1.3	Long term objectives	Pass with conditions	Pass with condition that PAFM is included in the

				national strategy / Act
Fishery specific management	3.2.1	Fishery specific objectives	Fail	Pass
system	3.2.2	Decision making processes	Fail	No clear evidence of the precautionary approach being applied in management
	3.2.3	Compliance and enforcement	Fail	Fail
	3.2.5	Management performance evaluation	Fail	Pass: Completed as part of the FIP process

Specific milestones were incorporated into the Logframe and FIP tracking document by the FIP consultant in December 2011. These were amended in each year, and have been changed when appropriate in 2015.

The project goals are as follows:

- Stock status and fisheries management: To ensure that the crab catch does not exceed sustainable levels
- Ecosystem management: To promote the ecosystem based approach to fisheries management
- Governance systems: To strengthen governance systems in the Kien Giang crab fishery

The seven outcomes are as follows:

- 1. Stock status improved and reference points applied in management
- 2. Data collection and information systems strengthened
- 3. Crab management strategies applied
- 4. Other species caught subject to a management strategy
- 5. Legal framework implemented and governance systems strengthened
- 6. Effective system of roles and responsibilities and consultation processes
- 7. Effective application of compliance systems

Based on the findings of this Review report the project needs to place a stronger emphasis on implementing the management tools set, reviewing whether these tools will be sufficiently effective (MSE) and implementing enforcement actions. The FIP consultant notes that financial constraints to budget funding have been an impediment to rapid delivery, especially with the co management issues and completing stock assessment work.

Actions completed in 2014/2015 included:

Goal 1: Stock status improved and reference points applied in management

The status of the Milestones for Goal 1 are listed below:

Milestone 1 (literature review) is completed (1)

Milestone 2 (observer program) is ongoing

Milestone 3 (independent surveys) was deleted

Milestone 4 (stock independence) has had not been implemented in 2014 due to project funding

constraints, but will be implemented in 2016

Milestone 5 Research Plan is incorporated into the Management Plan

Milestone 6 (Report on crab size) is completed (2)

Milestone 7 (External peer review) is completed (3)

Milestone 8 (Stock assessment) is ongoing

Milestone 9 (External Peer review) is completed and uncertainties incorporated into the updated stock assessment report

Milestone 10 (Reference points) A Target Reference Point (TRP) has been set at 0.8, but the Limit Reference Point (LRP) will be reviewed once the rebuilding strategy illustrates recovery and the uncertainties are reviewed.

Milestone 11 (logbooks) is ongoing

Milestone 12 (enumerators and data entry) is ongoing

Milestone 13 (logbook awareness) is ongoing

Milestone 14 (vessel data base) is complete

Milestone 15 is deleted

Milestone 16 (harvest strategy) has been implemented

Milestone 17 (Measuring the harvest strategies effectiveness) requires a Management Strategy Evaluation to be undertaken in 2016 in order to demonstrate the effectiveness of the measures applied

Milestone 18 is deleted

Milestone 19 (community awareness) is ongoing

Milestone 20 (input/output regulations) have been implemented but there are significant compliance issues (Milestone 47)

Milestone 21 (positive incentives/crab banks) has been deleted because of changes to the MSC methodology

Milestone 22 is part of Milestone 19

Milestone 23 (assessment of tools effectiveness) is linked to the MSE (Milestone 17)

Blue = Completed Green = Ongoing Red = New

Activity 1.1.1: Scientific data collection research and sampling programme and Activity 1.1.2: Provide quantitative biological reference points

With **Milestone 1** completed, and **Milestone 2** ongoing (Activity 1.1.1), RIMF updated the stock assessment report from ongoing data collection and research which improved compliance with the defined milestones in Activity 1.2.1, including a report on crab size structures (**Milestone 6**), and a stock assessment report (**Milestone 8**). The stock assessment report has been amended to include 'uncertainties' as recommended by the peer reviewer (**Milestone 7 and 9** respectively) in 2014, a crab fisheries scientist, Dr Cameron Dixon of WWF Australia. The main stock assessment report and peer reviews are contained in dropbox 5 and 6 respectively. The activity is not yet complete because. **Milestone 4** requires frame survey to assess the interdependence Kien Giang crab stock, relative to the Cambodia and elsewhere. This is required in order to determine the **leverage** of the Kien Giang relative to other fisheries, to illustrate that the measures will not be dissipated by lack of action elsewhere.

Milestone 5 research plan by Q1 2016 has been updated and incorporated into the Crab Management Plan (Milestone 36). This will include both stock assessment and secondary risk assessment.

The 2014 stock assessment showed that the stock was overfished by 20%, with a very high percentage of pre adult crabs taken by the Chinese trap fishery. However, provisional indications from RIMF suggests that the level of fishing has increased.

Based on the completion of the milestones, some additional actions need to be incorporated into the work undertaken. However, is important to reiterate the point that the stock assessment work needs to be regular, with additions made to the work next year, but thereafter, possible every 2-3 years.

Milestone 8 therefore needs to be extended to include the additional work to take the stock assessment to SG 80 or beyond, and Milestone 9 needs to review the stock assessment by year 5.

The recommended additions required to **Milestone 8**, were not undertaken in 2014, as recommended earlier, because of restrictions on available funding. Once done, the assessment will take this fishery from SG 60 to SG 80. The additions required are:

- A management strategy evaluation (MSE), to ensure that there is evidence in place to show that
 the management actions are achieving their objectives. This will require comparison of outputs
 from the current stock assessment model, with the same model and new data added, in one or
 two years' time, depending on when the measures have been implemented. (Now added to
 Milestone 8/Milestone 17).
- Performance measures from the model are expressed as % unexploited biomass or an appropriate surrogate, rather than estimates of fishing mortality. Sources of uncertainty (ie statistical error) are incorporated into the model so that likelihoods can be estimated or inferred(Added to Milestone 8)
- Main uncertainties are taken into account when developing the revised harvest control rules (Added to Milestone 8)
- Other fishery removals from the stock should be calculated (clarifying Milestone 4)

For the present, based on the stock assessment by RIMF a Target Reference Point was to recommend a Target Reference Point (TRP) at 0.8 (**Milestone 10**). The Harvest Strategy (Activity 1.3.1) has been adopted. However, both Limit and Target Reference Points will need to amended (Milestone 16) once the above additional analysis is undertaken.

Activity 1.2.1: Logbook system design and in operation

Data collection has been correctly implemented (Activity 1.2.1), but needs to be continued and strengthened. **Milestone 11** (Logbook implementation), **Milestone 12** (Enumerators operating), and **Milestone 13** (fisher logbook awareness) are ongoing. **Milestone 14** (Vessel data collection) has been implemented by RIMF. The links between RIMF and DARD District offices were strengthened in 2015. The workshop recommended adding the requirement for a **web based interface** for logbook entry and this was implemented in 2015.

Activity 1.3.1 Harvest control strategy implemented / Harvest control tools reformed or established based on limit reference points.

Following on from the FIP workshop in 2014, the Crab Advisory Council recommended setting mesh size limits on tangle net and trap. DARD set limits of nets (120 mm), traps (50 mm) Chinese traps (43 mm). The current practice as that tangle net mesh sizes were between 90-110 mm for tangle net and 18-25 mm for traps.

DARD implemented these Harvest Control Tools (**Milestone 20**, Activity 1.3.2) following the PPC Decree in June 2015. These tools need to collectively achieve a reduction in effective effort, now of at least 20%, which is equal to the level of over-exploitation identified in the model. Systematic non-compliance was also reported in the application of the minimum landing size and the closed season (February-April). These issues formed part of the discussion is a separate MCS Risk Assessment workshop, at which time it was resolved to strengthen targeted vessel boardings during the closed season, and to remove the 15% margin of tolerance.

If implemented, these will constitute **Milestone 16 and 20**. The Rebuilding Strategy has now replaced the requirement for Precautionary measures (**Milestone 18**) given the evidence that the stocks were already over exploited.

The effectiveness of the strategies will be assessed **Milestone 17** in 2016 with a report proposed to be delivered by October 2016 (The next FIP Review).

Milestone 21 (positive incentives) DARD will support the provision of new gear with the required mesh size. A request was made to the FIP to support this activity. Milestone 19 and 22 reflect community awareness programme which DARD and WWF are implementing, but will need to be adjusted to reflect the specific concerns relating to the catching of under sized crab. The community milestone is ongoing but Milestone 22 is deleted as the activities in Milestone 19 and 22 are combined. Milestone 23 will measure the effectiveness of the measures and will comprise a joint scientific/management report by DARD and RIMF to the CAC.

Goal 2: Ecosystem management: To promote the ecosystem based approach to fisheries management

The status of the Milestones for Goal 2 are listed below:

Milestone 24 (Recruiting consultants) is deleted

Milestone 25 (RRA questionnaire) is deleted

Milestone 26 (RRA study) is deleted

Milestone 27 (RRA reporting) is deleted

Milestone 28 (Risk assessment) is almost complete with a number of adjustments requested to the Risk Assessment report

New Milestone 29: Review of risks based on observer information

Old Milestone 29 (PRA/Community engagement), Milestone 30 (Bycatch recommendations), Milestone 30 (Bycatch mitigation strategy) and Milestone 31 (Bycatch tool evaluation) are deleted as all species > 2% are minor. However, a it is requested that the PSA is updated to reflect any changes in catch composition. Specific scrutiny is required for one minor species (brown banded shark (*Chiloscyllium punctatum*) which was below 2%, but scoring medium risk in the PSA. This species is listed as NT on the IUCN Red List, but not listed on the Vietnamese red list. Information suggests that it could be added to the national red list, and if so would then be deemed to be an ETP.

Activity 2.1.1 Information gathering and risk assessment to determine the vulnerability of retained species, bait and bycatch species to overfishing

Milestone 24 to 27 are redundant. The work implemented under **Milestone 28** (observer data collection) managed to provide accurate and verifiable information on the catch of all secondary species, noting also that no species are thrown overboard as a bycatch. Based on the quality of this data, there is a high degree of certainty that the information available is sufficient to quantitatively estimate outcome status. In order to maintain a score > SG 80, the observer scheme will need to be retained.

The observer data collection scheme undertaken by RIMF collects data information on Endangered, Threatened and Protected species (ETP). This indicates no interaction. Anecdotal information from fishers indicates no interactions with tangle net and traps. Evidence of no interaction is to be documented in the RIMF risk assessment report. If this information confirms no interaction, the outcome and management components will automatically score SG 100. However, this will require the retention of the observer scheme. It is also noted that ETP interactions lists turtles in the catch logbook (Milestone 11).

The Risk Based Training and Workshop was been completed (**Milestone 28**), with the support of MSC, and draft report completed by RMF in June 2015. RIMF will make adjustments to the report to include:

- Reference to no interactions with ETPs in response to information collected by observers
- PSA assessment of the cumulative impact on blue swimming crab by tangle net, trap, chinese trap and trawl
- Summary of catch percentages to reflect main and minor secondary species
- Revision of the Consequence Spatial Analysis (CSA) for habitats

Activity 2.1.2: Management mitigation measures introduced

New Milestone 29 Review of risks based on observer information. Requires on going assessment of main secondary species caught as part of the RIMF observer programme

Evidence of the risk to turtle interactions is low and this has been confirmed in observer reports (Milestone 31).

Milestone 32 (measures the effectiveness of the management mitigation action) is redundant. There is a partial strategy (closed areas) in place. Some bycatch reduction is also anticipated in response to the setting of mesh size limits.

Goal 3: Governance systems: To strengthen governance systems in the Kien Giang crab fishery

The status of the Milestones for Goal 2 are listed below:

Milestone 33 (Effective national legal system) to be finalized in 2015 Milestone 34 (Crab Advisory Council) set up and fully functional

Milestone 35 (CAC and DARD decision making processes) to be documented to demonstrate use of advice

Milestone 36 (FIP and CMP) completed

Milestone 37 (PAFM measures incorporated into the Management Plan). However, there does not appear to be sufficient evidence that precautionary measures (e.g. the Chinese trap) are incorporated into the decision making process.

Milestone 38 (Redrafting FIP and CMP to incorporate the harvest strategy and supporting ecosystem management actions) ongoing

Milestone 39 (Review plans implementation to show effectiveness)

Milestone 40 (Coordinator appointed) completed

Milestone 41 (Training needs) requires updating to reflect management strategy and the management plan

Milestone 42 (Roles and responsibilities confirmed) completed

Milestone 43 (Co-management groups formed) to be done

Milestone 44 (Co-management groups participating in CAC) to be done

Milestone 45 (Joint compliance working group formed and functioning) ongoing

Milestone 46 (Risk assessment) to be implemented

Milestone 47 (Enforcement strategies) to be reformulated after Milestone 46

Milestone 48 (Compliance industry awareness workshops) has commenced and is ongoing

Milestone 49 (Reporting on deployment actions, arrests and fines) to be implemented has commenced and is ongoing

Milestone 50 (Community co-management enforcement) to be implemented

Activity 3.1.1: Implementation of the new Fisheries Law containing the core elements which prioritize sustainable fisheries

Current laws in place are effective and broadly comply with the MSC standards (**Milestone 33**), but revisions are being made to these following a review of Vietnam's legal, policy and institutional arrangements (Nguyen Long and Nguyen Dinh Dzun, 2010), by MARD. The review covered an overview of international legal instruments and a review of the appropriateness of Vietnam's legal instruments covering fisheries management, including reference to the Precautionary Approach to fisheries management and adding requirements to protect ecosystems. A revised fisheries bill will be submitted to the National Assembly in 2017.

Activity 3.2.1 Fisheries Management Council established

The Crab Advisory Council (CAC) (Milestone 34) is operational. The CAC coordinator must record the linkages between the committee's decisions and recording how information made available is used and not used. The CAC has the opportunity to score > SG 80, but the appropriate structure needs to be documented (Milestone 35a).

Activity 3.2.2 Fisheries Advisory Council fully functional

The DARD decision making processes (**Milestone 35b**) needs to be clearly documented and follow a sequence that takes account of research, monitoring and evaluation, follows a precautionary approach and ensures stakeholder awareness of the decisions taken.

Activity 3.2.2: Prepare fishery Specific Management Plan

The FIP consultant will update the Management Plan to document the incorporation of the Harvest strategy and use of reference points, and acknowledge the use of risk assessment in determining bycatch related risks (Milestone 36 and 38). The application of PAFM/EAFM is an inherent component of the Crab Management Plan. However, there does not appear to be sufficient evidence that PAFM is occurring in management as there has been insufficient effort made in implementing strng measures against the use of the Chinese trap.

The Effectiveness of the Management Plan (**Milestone 39**) will need to be evaluated internally (By DARD in 2016). It is recommended that an external evaluation will be required in 2017.

Activity 3.2.3 Strengthen the capacity of the fisheries administration to service the CMC

A new CAC coordinator has been appointed (*New appointment Feb 2014*) (Milestone 40). DARD requested formal training on key management principles to be undertaken as part of the FIP coordinators next visit (**Milestone 41**). A MCS Risk assessment was conducted on 17 October, 2015. No further requests for training were made. An observation is that there are no records of meeting to demonstrate the CAC's functionality. This must be addressed.

Activity 3.2.4: Establish stakeholder associations

A co-management consultant commenced work to further develop participatory management functions. The consultant completed the her first training on awareness raising on co-management for communities and district levels in October, 2015. The consultant will continue to provide input into awareness at the provincial level, and will support the setting up of community-based groups, cooperation between communities, DARD, commune authorities and border army for enforcement and compliance. The consultant will also support to develop the link among the keys of value chain (fishers, middlemen, processor). The consultant's ability will depend on money received from NFI and WWF-US. The project is also exploring other funding options. Some funds are available from 50in10 for comanagement work and NFI's Control Document System (Milestone 43). A significant milestone will be the function of these Co-management groups as part of these CAC (Milestone 44) in 2016.

Activity 4.1.1: Compliance deployment strategies determined and implemented /Activity 4.1.2: Comanagement responsibilities determined based on above and provided for in legislation.

Agency compliance coordination has been strengthened (Milestone 45) through an MoU with the Border Police. As part of this MoU formalized reporting on actions and results is now available (DARD/sub DECAFIREP have also taken on the enforcement of the Phu Quoc Nature Reserve. A report on inspections is available indicating deployments on fishing vessels (64 boardings) and inspection of crab picking stations. This indicated systematic non-compliance with the current limits and difficulties associated with the enforcing the crab minimum landing sizes. In response to the Risk Assessment Workshop (Milestone 46), DARD will submit a request to MARD to eliminate the Margin of tolerance on minimum landing sizes (10 cm). DARD / VASEP have also set up an MoU with VASEP undertaking not to receive small sized crab (Milestone 47). The risk assessment exercise identified a number of High Risk activities which require further attention in 2015/2016. The FIP consultant will prepare an Operational Plan to support these actions.

In order to foster a system of systematic compliance in the regulations, DARD / WWF have included compliance obligations as part of its community awareness workshops (**Milestone 48**). As part of this exercise and the risk assessment / enforcement strategy, co-management compliance responsibilities, will be determined and community education system commences.

2.2 Benchmark Tracking

A summary of the status is shown in the BMT Summary Table (Table 1), the Scoring Category Overview (Figure 1), the Actual verses expected index table (Table 2), the BMT Progress Tracker (Figure 2) and the BMT Report Sheet (Table 2). These show an improvement in position from the time of the MSC preassessment in 2010 to the FIP review meeting in August 2014.

Table 1: BMT index Summary Table

Scoring Level	All Pls	Principle 1 Number of Pls	Principle 2 Number of Pls	Principle 3 Number of Pls
≥80	16	3	10	3
60-79	7	2	2	3
<60	2	1	0	1
BMT Index	0.78	0.67	0.92	0.64

Figure 1: Scoring Category Overview

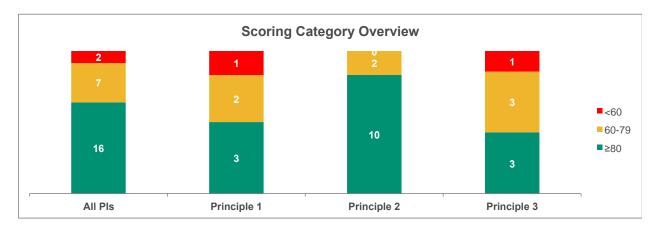


Table 2: Expected BMT Index Table

		BMT Index Year 1	Year 2	Year 3	Year 4	Year 5
Principle 1	Actual	0.10	0.30	0.33	0.67	
Filliciple I	Expected		0.10			1.00
Principle 2	Actual	0.42	0.33	0.29	0.92	
Fillicipie 2	Expected		0.42	0.58	0.96	1.00
Principle 3	Actual	0.29	0.43	0.64	0.64	
Filliciple 3	Expected		0.29	0.64		1.00
Overall	Actual	0.31	0.35	0.40	0.78	
Overall	Expected		0.31	0.58	0.92	1.00

Figure 2: BMT Progress Tracker

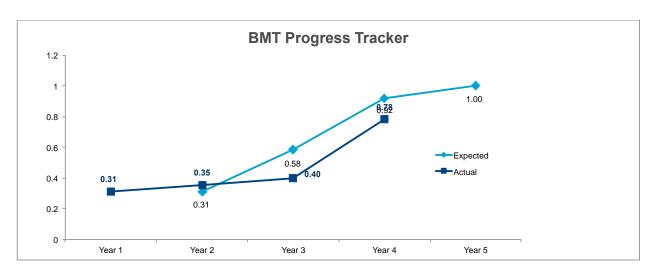


Table 3. BMT Report Sheet

Principle	Component	Performance Indicator	Expected Scoring Category: Year 4	Actual Scoring Category: Year 4	Status
	0.1	1.1.1 Stock status	60-79	<60	Behind
	Outcome	1.1.2 Reference points		≥80	Behind
4		1.2.1 Harvest Strategy	≥80	60-79	Behind
1	Management	1.2.2 Harvest control rules and tools	≥80	60-79	Behind
	Management	1.2.3 Information and monitoring	≥80	≥80	On Target
		1.2.4 Assessment of stock status	≥80	≥80	On Target
		2.1.1 Outcome			
	Primary species	2.1.2 Management			
		2.1.3 Information			
		2.2.1 Outcome	≥80	≥80	On Target
	Secondary species	2.2.2 Management	60-79	≥80	Ahead
		2.2.3 Information	≥80	≥80	On Target
	ETP species	2.3.1 Outcome	≥80	≥80	On Target
2		2.3.2 Management	≥80	≥80	On Target
		2.3.3 Information	≥80	≥80	On Target
	Habitats	2.4.1 Outcome	≥80	≥80	On Target
		2.4.2 Management	≥80	60-79	Behind
		2.4.3 Information	≥80	≥80	On Target
	Ecosystem	2.5.1 Outcome	≥80	≥80	On Target
		2.5.2 Management	≥80	60-79	Behind
		2.5.3 Information	≥80	≥80	On Target
		3.1.1 Legal and customary framework	60-79	60-79	On Target
	Governance and Policy	3.1.2 Consultation, roles and responsibilities	≥80	≥80	On Target
		3.1.3 Long term objectives	≥80	≥80	On Target
3		3.2.1 Fishery specific objectives	≥80	≥80	On Target
	Fishery specific	3.2.2 Decision making processes	≥80	60-79	Behind
	management system	3.2.3 Compliance and enforcement	60-79	<60	Behind
		3.2.4 Management performance evaluation	≥80	60-79	Behind
Total number of PIs equal to o	r greater than 80	-	20	16	
Total number of PIs 60-79			4	7	
Total number of PIs less than 6			0		
	Overall BMT Inde	X	0.92	0.78	

3. THE REVISED ACTION PLAN

The revised logframe is provided in Appendix 1. It contains three basic goals, 7 outcomes, 12 activities and 47 milestones.

The specific activities will be addressed in the section below.

Outcome 1.1: Stock status and fisheries management: To ensure that the crab catch does not exceed sustainable levels

Activity 1.1:1: Scientific data collection research and sampling programme

Milestone 1: Literature Review (Completed);

Milestone 2: Expected Observer programme operational (Ongoing);

Milestone 3: An analysis of other relevant variables appropriate to fishery specific recruitment) (*Removed*)

Milestone 4: Stock interdependence and frame survey (Q1 2016);

Milestone 5: Research Plan consolidated into the Crab Management Plan (Q1 2016)

Having successfully completed (Vu Vet Ha et al, 2015)⁴ and revised (Vu Vet Ha et al, 2016), the stock assessment report, it is important that the stock assessment process is continues exercise that is required to support the management of the stock. A report should therefore completed at least once every two years, but should be available for 2016..

Central to this work is the maintenance of the observer scheme, which will also cover secondary species data (including ETPs). The outputs will also be strengthened to assess the interdependence/proportionality of this fishery against surrounding fisheries, especially the one in Cambodia.

Assigned stakeholders	RIMF

⁴ Vu Viet Ha, Tu Hoang Nhan, Tran Van Cuong and Nguyen Sy Doan (2015), Stock and fishery assessment report of blue swimming crab *portunus pelagicus* in Kien Giang waters, Viet Nam, Department of Marine Fisheries Resources Research, Research Institute for Marine Fisheries

Priority	High
Status	Revised activity
Current scoring	> 60, with an expectation that this activity will contribute to a score > 80 when completed.
Timeframe	Ongoing but with further outputs expected October 2016.
MSC Performance Indicator(s)	Stock status (1.1.1), Information (1.2.3), stock assessment (1.2.4).

Activity 1.1.2: Provide quantitative biological reference points

Milestone 6: Report on crab size @ 50% maturity (Completed);

Milestone 7: Assessment is subject to peer review (Completed);

Milestone 8: Report on crab stock assessment submitted to CAC (Completed and Ongoing);

Milestone 9: Scientific report is subject to peer review (Completed);

Milestone 10: Distinguish between Target and Limit reference point is set above the level at which there is an appreciable risk of impairing reproductive capacity (*Expected Q4, 2016*).

The stock assessment work (Vu Vet Ha, et al) should be strengthened to include the following:

- A management strategy evaluation (MSE), to ensure that there is evidence in place to show that the management actions are achieving their objectives (Now added to Milestone 8/Milestone 17) and that it is highly likely based previous performance that they will be able to rebuild the stock within the specified timeframe. This will require comparison of outputs from the current stock assessment model, with the same model and new data added, in one or two years' time, depending on when the measures have been implemented.
- Performance measures from the model are expressed as % unexploited biomass or an appropriate surrogate, rather than estimates of fishing mortality. Sources of uncertainty (ie statistical error) are incorporated into the model so that likelihoods can be estimated or inferred(Added to Milestone 8)
- Main uncertainties are taken into account when developing the revised harvest control rules (Added to Milestone 8)
- Other fishery removals from the stock should be calculated (clarifying Milestone 4)

Currently the reference points for the fishery are based on fishing mortality (F). While reference points based on biomass are needed long term, this is a useful surrogate measure and easily explained in terms of the level of overfishing that is occurring. The target and limit reference point was chosen as F = 0.8 (i.e. fishing mortality to achieve BMSY) for simplification and for conservatism given this is the first time

the model has been run. The model indicates that the fishery is currently fishing at F=1.0, or 20% above the levels needed to achieve BMSY. In other words the fishery is currently outside of the LRP and is overfishing. In response, harvest control rules are to be implemented that aim to reduce effective effort in the fishery by at least 20%. It is anticipated that this level of effort reduction will facilitate a recovery in the stocks in the short term, while improvements in modeling and the harvest strategy (i.e. target and limit RPs and harvest control rules) are established over the next 2 years.

Future modeling development will require outputs expressed as % unexploited biomass or an appropriate surrogate, rather than estimates of fishing mortality. Also, statistical error needs to be built into the model so that the model can demonstrate that the stock is highly likely (i.e. >80%) to be above the point at which recruitment failure may occur (20% of unexploited biomass by default for the MSC guidelines).

These improved estimates will provide greater clarity on where the stock is currently at relative to BMSY and will allow for revised target and limit reference points, improved harvest control rules, and a better understanding of the trajectory for stock rebuilding. A Management Strategy Evaluation can be undertaken once additional data have been gathered to determine the effectiveness of the harvest controls that are about to be put in place. An effective way of conducting this MSE would be to compare outputs from the current stock assessment model, with the same model and new data added, in one or two years time, depending on when the measures have been implemented.

Working Group	RIMF
Priority	High
Status	Revising Action to increase the Scoring level > 80.
Current scoring	> 60, with an expectation that this activity will contribute to a score > 80 when completed.
Timeframe	Ongoing but with revised outputs expected September 2016.
MSC Performance Indicator(s)	Stock status (1.1.1), Stock assessment (1.2.4), and Research Plan (3.2.4)

Outcome 1.2: Data collection and information systems strengthened

Activity 1.2.1: Logbook system design and in operation

Milestone 11: Logbook design, printing, (Completed);

Milestone 12: Enumerators engaged, trained and begin undertaking data entry into a web based electronic fisheries information system (*Ongoing*);

Milestone 13: Fisher awareness (*Ongoing*);

Milestone 14: Collection and reporting of fleet composition into a web based electronic fisheries information system (*Ongoing*).

DARD and RIMF are cooperating well in retrieving logbook data. The level of comprehensiveness is expected to improve with improved fisher awareness. A notable gap from logbook data was the absence of recording ETP actions. DARD and DARD District also intend to strengthen logbook recording and fleet composition by setting up a web based system. This is reflected by an amendment to Milestone 12.

The data collected in logbooks and from a sampling program (see 3.2 below) is incorporated into a RIMF MS Access database to record, integrate, and analyze the potentially large quantity of data. This database is now accessible to all the departmental stakeholders responsible for both the collection.

RIMF has addressed the weakness in fleet composition data and updated the fleet records to specifically identify those engaged in the crab fishery. However, in order to ensure sustainability RIMF has developed a web based crab vessel registry, which is shared with DARD District and approved and populated by Provincial DARD. This needs to be applied and populated in 2016.

Working Group	DARD
Priority	High
Status	Ongoing
Current scoring	60-80 with an expectation that this activity will contribute to a score > 80,
	provided that DARD shows a commitment to collecting and entering data.
Timeframe	Ongoing, with DARD now responsible for logbook collection. RIMF has
	developed an online data base (logbook and fleet registry), with DARD
	District now responsible for populating these data bases.
MSC Performance Indicator(s)	Information/Monitoring (1.2.3)

Outcome 1.3 Crab management strategies applied

Activity 1.3.1 Harvest control strategy implemented

Milestone 15: Precautionary harvest strategy adopted based on size limits/closed seasons (Q4 2014);

Milestone 16: Harvest strategy in place with set Reference points (Q1 2016);

Milestone 17: Evidence that the harvest strategy is likely to work (*Q4 2016*).

The status of the fishery has now been identified the target stock (Blue swimming crabs) as overfished and subject to overfishing. DARD has adopted a harvest strategy with the aim of rebuilding to 50% BMSY. This will require a reduction in effort by at least 20% to bring the stock back to sustainable levels.

Preliminary analysis from RIMF showed that the existing management measures (the minimum landing size (MLS) and the closed season) were not being applied systematically. The worrying feature recognised from the 2015 work is that trap fisheries especially show very low levels of selectivity with a large number of pre-adults caught (Vu Vet Ha, et al). Setting mesh size limits may address this, but the full extent of recovery needs to be assessed through a Management Strategy Evaluation. At present,

there does not appear to be any adherence to the precautionary principle, which is a corner stone of decision making processes.

DARD also proposes to strictly implement the minimum lading size regulation and closed season (Milestone 16).

RIMF will continue with the stock assessment into 2016 to assess the impact of the strategy.

The CAC and DARD will also need to evaluate whether the strategy has been implemented effectively (Milestone 17). Evidence of a successful strategy would provide the green light for commencing a full assessment.

Working Group	CAC and DARD
Priority	High
Status	Ongoing
Current scoring	SG >60 (1.1.3, 1.2.1 and 1.2.2) with an expectation that this activity will
	lead to a score > 80 if implemented successfully.
Timeframe	2016
MSC Performance Indicator(s)	Rebuilding Strategy 1.1.3: 1.2.1 Harvest strategy; 1.2.2 Harvest Rules &
	Tools.

Activity 1.3.2: Harvest control tools reformed or established based on limit reference points

Milestone 18: Precautionary measures set (Q1 2015);

Milestone 19: Community awareness programme (Ongoing);

Milestone 20: Input and output management rules and tools in place (Implemented);

Milestone 21: Explore and implement positive incentives for improved gear selectivity and crab banks with Community groups (*Ongoing*);

Milestone 22: Community awareness with increased emphasis on co-management (*Ongoing*);

Milestone 23: Evidence that the management tools are effective (*Q3 2016*).

Management tools are to be introduced which will implement a harvest strategy (Milestone 20). Milestone 18 and 19 are deleted for the same reasons as specified above.

DARD propose to provide some incentives to increase the minimum mesh size for crab pots Milestone 21). VASEP/WWF is requested to assist in this area. The 2015 pilot was applied.

Milestone 23 will be implemented as part of RIMF/DARDs review on the effectiveness of the measure. A report will need to be submitted to the CAC and DARD for consideration (Milestone 23).

Working Group	CAC and DARD
Priority	High
Status	Ongoing
Current scoring	>60 with an expectation that this activity will contribute to a score > 80, provided that the CMC demonstrates an ability to make clear recommendations on harvest rules and tools, and that these are acted upon by DARD.
Timeframe	2016
MSC Performance Indicator(s)	1.2.1 Harvest strategy

Outcome 2.1: Other species caught subject to a management strategy

Activity 2.1.1 Information gathering and risk assessment to determine the vulnerability of retained species, bait and bycatch species to overfishing.

Milestone 24: Recruit consultants to undertake RRA (Q 3 2013)

Milestone 25: Design and pilot test RRA Questionnaire (Q4 2013)

Milestone 26: Undertake RRA (Q1 2014)

Milestone 27: Report on RRA outputs (Q22014)

Milestone 28: Risk Assessment training and workshop (*Completed but to be updated from observer records*)

Secondary species interactions in this fishery have been identified through the observer scheme. The observer scheme also identified no interactions with ETPs. The observer scheme included species caught in tangle net and trap. All species are in fact retained for human consumption. A Risk Based Assessment covering the main interacting species (>2%)⁵ was completed by RIMF⁶, with technical advice provided by the FIP consultant and MSC (Milestone 28). The report is to be expanded to include the new V2 RBF Habitats Consequence Susceptibility scoring. A final report will be available by Q4 2015, but will be updated annually following information received from the observer programme (Milestone 29).

The final report was submitted to the CAC before the end of 2015.

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⁵ MSC is reported to be changing the classification of 'main' from the current minimum benchmark of 5% to 2%. A new Fisheries Assessment Methodology will be available at the beginning of 2012.

⁶ Vu Viet Ha, Pham, Nguyen Dieu Thuy, Richard Banks and Mihaela Zaharia, Risk Assessment Of Retained Species Caught In The Kien Giang Blue Swimming Crab Fishery, RIMF/Poseidon, Prepared for the CAC.

Working Group	RIMF/DARD
Priority	Medium to High
Status	Completed but recommended as an ongoing activity
Current scoring	Scoring ranges has achieved 80. P strategy to reduce interactions for the two methods.
Timeframe	Commenced in year 3 and recommended as an ongoing activity
MSC Performance Indicator(s)	Retained Sp, bycatch, ETP, habitat and ecosystem information (2.1.3, 2.2.3, 2.3.3, 2.4.3, 2.5.3) Secondary and ETP, habitat and ecosystem status (2.2.1, 2.3.1, 2.4.1, 2.5.1) and Research Plan (3.2.1)

Activity 2.1.2: Management mitigation measures introduced

New Milestone 29: Milestone 29: Review of risks based on observer information

Milestone 30: Submit finding and recommendations to CAC (Q4 2015);

Milestone 31: Bycatch strategy and tools commences and training and awareness campaign (WWF) begins *Deleted*);

Milestone 32: Evidence that the tools are effective (Deleted, but partial strategy for minor species).

The RBF identified low risks for main and minor species (down to 1%). However, the FIP consultant recommends a watching brief on catches of bamboo shark (IUCN NT). This species is not on the red list as is currently below 0.94% of the total catch⁷. A Partial strategy is in place and includes minimum mesh size and a combination of temporal and seasonal closures. A watching brief will be maintained on minor species. Elevation of minor to main for bamboo shark may require some risk mitigation (Milestone 30). It is also likely that bamboo shark will be added to the list of ETP species on the Vietnam Red list, in which case, it will be appropriate to record CPUEs for these species to assess that catch rates remain the same, and pose to risk of irreversible harm.

A monitoring brief is suggested on bamboo shark catches, and its status vis a vis ETP classification.

Working Group	RIMF/DARD/CAC
Priority	Medium to High
Status	To be reviewed annually
Current scoring	SG 80
Timeframe	Completed by 2015, and reporting on the effectiveness in Q4, 2016
MSC Performance Indicator(s)	High

⁷ Email from Vu Viet Ha to Richard Banks (13 September, 2015) 'Regarding to ratio of the brownbanded bamboo shark, Chiloscyllium punctatum in the trip catch, it was observed about 6,01% in catch and 1,20% in number during the observer trip in September. The average for 3 observer trips in 2015 was 0,94% in catch and 0,23% in number'.

Secondary, ETP, Habitat and Ecosystem management strategies (2.2.2,
2.3.2, 2.4.2, 2.5.2).

Outcome 3.1: Legal framework implemented and governance systems strengthened

Activity 3.1.1: Implementation of the new Fisheries Law containing the core elements which prioritize sustainable fisheries

Milestone 33: National legal documentary system effective (Q3, 2013)

Amendments to the current National fisheries law are not likely to be advanced until 2017. The amendments will need to be checked to ensure that the law supports management outcomes consistent with MSC Principles 1 and 2. It is highly probably that legal drafting has taken account of advice (Nguyen, et al).

MARD and the provincial peoples committee should ensure that a number of core principles are applied with its fisheries specific laws:

- Fishing activities are sustainable and effective, in a manner consistent with preserving marine resources;
- Fishing operations must ensure conservation of related marine ecosystems and biodiversity, protecting marine environment and its natural landscapes.
- Fisheries sector development strategies must be planned to be associated with national and local fisheries management plans.
 - The national legislation or strategy document to include reference to the Precautionary approach to fisheries management.

Working Group	MARD
Priority	High
Status	Clarification of existing laws and decrees
Current scoring	60-80.
Timeframe	Q4, 2017
MSC Performance Indicator(s)	Legal and customary framework (3.1.1), 3.1.3 (Objectives).

3.2: Effective system of roles and responsibilities, consultation processes and decision making processes

Activity 3.2.1 Fisheries Advisory Council established and operating effectively

Milestone 34: CAC operating effectively (Q 3, 2011);

Revised Milestone 35a: The consultation process regularly seeks and accepts relevant information, including local knowledge. The management system demonstrates consideration of the information and

explains how it is used or not used (Q1 2015).

The Crab Advisory Council (CAC) was set up in Law in Q3 2011. The CAC serves the important purpose of closely re-evaluating current management measures to formulate interim precautionary management measures, as well as long term, management measures for both the blue swimming crabs and any associated species and habitat interactions. DARD is responsible for supporting the CAC including provision of the Chairman and Secretary.

The members of the CMC and PMU are listed below:

The Crab Advisory Council (Decision no. 88/QD-SNNPTNT dated 14 April 2014)

- 1. Quang Trong Thao, Vice Director of DARD, Chairman of CAC
- 2. Duong Xuan trung, Vice head of sub-DECAFIREP, DARD, CAC coordinator
- 3. Le Van Tinh, head of Financial and Planning Division, DARD
- 4. Nguyen thi Dieu Thuy, WWF-VN
- 5. Samboon Chonpricha, YCC company, represent of VASEP CC
- 6. Nguyen Van Hien, Vice Head of Agriculture and Fisheries Extension Centre, DARD
- 7. Kim Hoang Thanh, Vice head of Inspection Division, DARD
- 8. Duong Quang Binh, Head of the Economic Unit, Ha Tien district
- 9. Nguyen Minh Truc, Head of the Economic Unit, Phu Quoc district
- 10. Nguyen Hong Cuong, Director of Phu Quoc MPA, DARD
- 11. Nguyen Khac Bat, Vice Director of RIMF
- 12. Bui Hong Tai, middlemen in Phu Quoc
- 13. Giang Ngoc Ly, fishermen in Ha Tien
- 14. Le Van Dung, fishermen in Phu Quoc
- 15. Le Quang Da, Vice Head of Agriculture division, DARD, CAC secretary

The Project Management Unit (PMU) (Decision no. 01/HDTV dated 18 April 2014)

A. Standing group

- 1. Duong Xuan Trung, Head of the PMU
- 2. Thai Thanh Lap, member
- 3. Sam Phuong Trinh, Accountant

B. Members

- 4. Le Van Tinh, head of Financial and Planning Division, DARD
- 5. Nguyen Van Hien, Vice Head of Agriculture and Fisheries Extension Centre, DARD
- 6. Kim Hoang Thanh, Vice head of Inspection Division, DARD
- 7. Nguyen Thanh An, staff of sub-DECAFIREP, DARD
- 8. Pham Van Trung, staff of sub-DECAFIREP, DARD
- 9. Ngo Phuoc Sang, staff of sub-DECAFIREP, DARD
- 10. Ly Vanh Tha, staff of Phu Quoc MPA

The Council meets once a year, and key members 1-2 times per year. VASEP, WWF and DARD meet 3-4 times a year to assess FIP developments

A CAC coordinator is now appointed to undertake the CMC actions, and this funded by the fishery sector on cost recovery basis. The coordinators role, expected by the FIP, is to:

- Liaise with all stakeholders;
- Organise meetings, reporting and distribution of minutes;
- Coordinate inputs for supporting organisations, as required sub DARD and municipal offices, RIMF, VASEP and fisher co-management groups;
- Formulate statutory decisions (management measures) following the deliberation of the council for transmission to DARD;
- Organize workshops community workshops, with DARD and other stakeholders (RIMF and WWF) to optimise the receipt of relevant information, to promote the harvest strategy and explain the decisions taken by the CAC;

Reports are that the minutes of the meetings are not recorded. This issue needs to be addressed.

Activity 3.2.2 CAC Advisory Council operating effectively

There has some confusion in the role of the CAC and DARD. DARD is responsible for decisions, and CAC responsible for providing the advice. The core requirements of the Council are to ensure that DARD regularly seeks and accepts relevant information, including local knowledge. The management system should be able to demonstrate that consideration is given to information and explains how it is used or not used. This may be taking place, and is evident through the FIP consultation, but it is important that the CAC coordinator is made aware of the specifics, and records the linkages between the committee's decisions and recording how information made available is used and not used. Milestone 35 has been revised to reflect this.

Milestone 35: Evidence that DARDs decision making processes respond to all issues identified in relevant research, monitoring, evaluation and consultation, in a transparent, timely and adaptive manner and take account of the wider implications of decisions (*Q1 2015*)

DARD must be able to demonstrate that decisions are taken and that the decision-making process follows the order set out below:

 A coherent decision making process, results in measures and strategies to achieve fishery specific objectives, as laid down in the Crab Management Plan (CMP);

- The decisions taken respond to all issues identified in relevant research, monitoring and evaluation and consultation in a transparent and timely manner, and take account of the wider implications of decisions;
- The decision making process use the Precautionary Approach to Fisheries Management (PAFM) and based on best available information;
- Formal reporting systems are implemented to ensure stakeholder awareness of the decisions taken;
- Consultation processes that regularly seek to accept relevant information and encourages all interested and affected parties to participate.

It is important to be able to document these decisions that are in conformity with the CMP and advice provided. DARD should also adopt a formal reporting process to ensure that stakeholders are aware of these processes. DARD should also re-appraise the issue of using precautionary management actions. These issues will be clarified in FIP Consultant training in 2015. The MSE, to be produced in 2016 will identify the effectiveness of the current strategy.

Working Group	CAC and DARD
Priority	High
Status	New activity, but now implementation needs to be seen to be effective
Current scoring	60-80. This will achieve a score > 80 once the CAC is shown to effectively
	implement recommendations, and that these are acted upon by DARD.
Timeframe	Q41 2015
MSC Performance Indicator(s)	Roles, responsibilities, consultation (3.1.2) and decision making (3.2.2)

Activity 3.2.2: Prepare fishery Specific Management Plan

Milestone 36: FIP budget, log frame, and CMP (Subject to annual review);

Milestone 37: PAFM measures incorporated into the Management Plan and the Harvest Strategy (Completed);

Milestone 38: Full harvest strategy and bycatch mitigation incorporated into management plan (Q1 2015 and thereafter)

Milestone 39: Review of Management Plan implementation (Q4 2014 and ongoing).

Several of these activities commenced on project inception, and are ongoing as the project requires. A Crab Management Plan was completed in May, 2011 (Milestone 36), following a FIP planning group meeting with stakeholders. This plan was updated in October 2015 by the FIP Consultant to reflect the agreed harvest strategies and will be revised when further changes to management activities are made (Milestone 38).

The Plan includes a reference to the Precautionary Approach to Fisheries Management (PAFM). This is an integral part of the decision making process, and is expected to allow for 'uncertainty' when making decisions.

The following core objectives are clearly set out in a fishery management plan:

Main objectives

To ensure the long term sustainable livelihood of fishers and fishing companies by establishing sustainable resource management for crab, allied with sustainable exploitation of associated targeted commercial and non-commercial bycatches.

Proposed goals

- 1. Maintain an ecologically sustainable crab biomass
- 2. Ensure equitable distribution of crab between resource users⁸
- 3. Provide community based alternative livelihood programme for displaced fishers
- 4. Minimize impacts on the ecosystem
- 5. Enable effective and participative management of the fishery

The CMP sets out the goals into a series of expected result outcomes and actions that form the basis of the sections described below. The development should be carefully planned so as to provide measurable means of verification (reporting systems) and objectively verifiable indicators.

In order to ensure that there is a reviewed process in place, the Management Plan should be internally reviewed annually. The FIP process constitutes a review up until the time of assessment. However, thereafter, the plan should be reviewed independently, and any recommendations acted upon (Milestone 39). The CMP will be reviewed in Q3 2016, facilitated by the FIP consultant. It may be necessary to commission an external review prior to a full assessment.

The FIP Logframe and budget is reviewed by the FIP working group, and adjusted by the FIP consultant. Any proposed changes to the budget is reviewed by WWF and VASEP. This action should now incorporate more active involvement in the process by the CAC coordinator.

Working Group	CAC and DARD
Priority	High
Status	CMP is now used as an annual monitoring tool by DARD
Current scoring	A score > 80 once the CMP is shown to effectively implement the activities.
	Measurable indicators has the potential to score up to 100.
Timeframe	Q4, 2011 and ongoing up until the assessment
MSC Performance Indicator(s)	Fishery specific objectives (3.2.1) and performance review (3.2.5)

⁸ Explore probable rights based systems including Territorial User Rights

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Activity 3.2.3 Strengthen the capacity and decision making of the fisheries administration to service the CMC

Milestone 40: CAC coordinator appointed (Reaffirmed, October, 2015)

Milestone 41: Training needs assessment undertaken in DARD support functions (*CAC functionality presentation, Not undertaken*)

Milestone 42: Roles and responsibility weaknesses identified and revaluated (August, 2013).

The CAC is operational, having had 6 meetings with the support of a Project Management Unit. Funding is being reviewed by WWF and VASEP to ensure that CAC and DARD are more proactively involved, and to allow for some release of pressures from the WWF FIP Coordinator. However, funding will depend on specific outputs secured (Milestone 42).

Training has been provided in risk assessments covering MSC Risk Based Framework for Ecosystem species and the application of Risk Assessment on MCS (Milestone 41).

Working Group	CAC and DARD
Priority	High
Status	Ongoing activity
Current scoring	SG 80.
Timeframe	Revised and commencing activities from Q4 2013
MSC Performance Indicator(s)	Consultation, roles and responsibility (3.1.2)

Activity 3.2.4: Establish stakeholder associations

Milestone 43: Development of community co-management groups (Q1, 2015)

Milestone 44a: Co-management groups commence participation in CMC functions (Q4, 2015)

New Milestone 44b: Establish criteria in cooperation with VASEP for best practice co-management groups (Q2 2016).

National policy is seeking to promote the development of co-management as a mechanism to secure a partnership arrangement between government and the community fishers, to share the responsibility and authority for management of a resource. Some of the underlying weaknesses in enforcement suggest that co-management is the most appropriate alternative tool to ensure that management practices are applied. Co-management would this work in harmony with DARD's enforcement. Co-management needs to encompass on two strands. The first is supporting management actions at community level, and ensuring buy into the requirement to protect pre adult (and female) crabs. This can be accommodated with increasing awareness delivered by DARD and WWF. The other is for VASEP to develop partnerships with co-management groups that are seen to function well. Some time should therefore be put into providing an assessment process, and developing criteria, to determine which groups these should be (New Milestone 44b).

As a core component of the CAC's activities, supporting the strengthening of roles and responsibilities, and participatory processes, over the course of the next 2 years, the project will work with and establish 6 functioning Districts. The organization will be similar in structure to other effective community systems operating in Vietnam (e.g., Ben Tre clam) and seek to adapt a similar system to Kien Giang province. Core community group interactions must:

- Clarify a community structure group leaders and officers;
- Reaffirm broad goals and strategies;
- Clarify expectations and determine the co-management activities;
- Clearly outline management obligations to the Crab Advisory Council;
- Set up support structures and mentoring roles to facilitate the development of community organizations;
- Create a system of financial sustainability supported by seed funding (Year 1 only);
- Develop a culturally appropriate process, create a community support structure to facilitate
 implementation (a village Fisheries Advisory Council), define actions to be undertaken by the
 community (including compliance actions), and support functions required by the higher
 authority;
- Set up codes of conduct linked to crab stocks and bycatch/ecosystem management (to be done
 by the community groups, facilitated by the NIO);
- Ensure continuing community commitment regular contact between communities and extension staff, exchange of information between communities, a review of fisheries management structures;
- Ensure participation of other stakeholder Fish processors, WWF, DARD, NIO, RIMF; and
- Establish communication linkages with other community groups.

Working Group	CAC, DARD and co-management specialist
Priority	High
Status	Activity commenced in Q4 2015
Current scoring	60-80.
Timeframe	Revised and commencing activities from Q1 2015
MSC Performance Indicator(s)	Consultation, roles and responsibility (3.1.2), Compliance (3.2.3)

Outcome 4.1: Effective application of compliance systems

Activity 4.1.1: Compliance deployment strategies determined and implemented

Milestone 45: Agency compliance coordination strengthened (*Ongoing*)

Milestone 46: Risk assessment of management measures undertaken and deployment strategies determined (*Q4 2015*)

Milestone 47 Enforcement strategies implemented (*Q1 2015*) with the support of an Operational Plan (Q4 2015).

Milestone 48: Industry awareness workshops (Q2 2016)

Milestone 49: MCS Reports prepared and publicly available identifying violations detected (Q4 2015)

DARD/sub DECAFIREP has developed an MoU with the Border Guard and will liasise with them on coordinating issues. A Stakeholder Compliance Risk Assessment was held on October 17. The focus on targeted action is to remove the 15% margin of tolerence which currenytly mkes it impossible to implement the minimum landing size, to then target inspections on landing and at picking plants, and to devote inspection time to enforcing the closed area.

Evidence is now available that DARD is implementing enforcement checks on vessels. An annual report was made available. However, the Risk Assessment workshop revealed significant levels of systematic non-compliance in this fishery citing:

- Unauthorised fishing inside inshore areas during the closed season (April-October)
- Use of gears below the established minimum mesh sizes
- Non compliance in the minimum mesh size
- Failure to complete a logbook
- Processors receiving undersized crab
- Sales of juvenile crab for aquaculture feed.

DARD fisheries controllers, border police and the licensing division should assess the most likely levels of infringement and their capacity, along with partner organizations and community groups, to deal with them by undertaking a risk analysis. This will be highlighted in an Operational Plan, which will extract from the risk assessment exercise. The risk analysis evaluated the levels of non-compliance and the effectiveness and weaknesses of the current tools in place. The FIP consultant will prepare a draft Operational Plan for circulation and input by DARD.

Options for strengthening compliance activity should center around:

- Strict enforcement of the existing minimum landing size;
- Sporadic targeting of fishing demarcation areas, especially during known crab migration periods;
- Regular monitoring of seasonal closures;
- Strict adherence to licensing controls, log books and associated catch certification;
- Registering and recording gears;
- Active community participation in monitoring zones, closed areas and gear deployment;
- Regular landing checks to evaluate crab sizes;
- A code of conduct amongst processors (berried hens and sizes).

Implementing the above may require an increase in the number of enforcement officers.

The range of potential violations as defined above would need to be accompanied by a schedule of penalties⁹, which ultimately result in license removal (for the third offence). Fishing without a license would have to result in confiscation of boat, gear and heavy penalty. Penalties should take account of the risk assessment (see below), such that regular/high risk offences should result in heavier penalties. A system of reporting on violations (Milestone 49) should be undertaken, with the results of violations detected and offences implemented, distributed to the co-management organisations to promote the deterrence effect.

Working Group	DARD, Community Based controllers and processors
Priority	High
Status	Commenced Q1 2015
Current scoring	< 60 (Some evidence of systematic non compliance), but there is some
	progress on increasing fisheries inspections.
Timeframe	Operating within 12 months but ongoing on a continuous basis
MSC Performance Indicator(s)	3.2.3. Compliance & enforcement

Activity 4.1.2: Co-management responsibilities determined based on above and provided for in legislation

Milestone 50: Co-management responsibilities determined and community education system commences (*Q2 2016*)

Under the Supervision of DARD and the Border Police, fishers should agree to a set of standards, and allocate responsibilities to a number of community control officers. A system of circulating day-to-day monitoring responsibilities among fishers could be explored. A system adopted amongst fishers in Thailand, Indonesia and the Philippines is to devise a self-funded community compensation to fishers allocated to monitoring rather than fishing duties, but to circulate these activities to all willing participants. Fishers would need to be allocated some basic equipment such as binoculars, life jackets and two way VHF radios to strengthen their ability to support their compliance duties.

Community fisher households should be educated in fisheries co-management and control measures. Fishing communities will have to be made aware of the ramifications of non-compliance, most especially the consequences of effort control with the decline in CPUE, targeting immature females, and fishing in prohibited areas. This work should include educational outreach undertaken by DARD with visible support from the buyers and intermediaries, with supporting innovative and artistic "Don't" (land below size limits, no scrubbing of eggs, no fishing other group exclusive zones and calendar restrictions) and "Do's" (land larger crabs, land clean females, stay inside assigned demarcation areas) and posters and additional education outreach in local schools. A very clear message would be the need to prevent other would-be fishers from entering the fishery.

⁹ These must be added to the drop box.

The process of educational outreach is now being applied, at District level, by regular community based meetings, under the direction of the co-management consultant and DARD. Feedback from these meetings will be used to assess the success or problems encountered with the management measures.

Working Group	DARD and Community Based controllers, processors and NGOs
Priority	High
Status	New.
Current scoring	< 60, There has been no advancement in this area
Timeframe	Operating within 12 months but ongoing on a continuous basis
MSC Performance Indicator(s)	High Priority
	3.2.3. Compliance & enforcement

Outcome 2.9. REVIEW PROCESSES

To fully implement the various tasks outlined in this Action Plan, further management planning is required to set revised TORs for RIMF to strengthen the stock assessment and risk assessment work, to support co-management activities and awareness campaigns, and to support fisheries enforcement actions. These actions will be subject to a FIP Review in 2016. AT such a time, DARD should also seek to develop an annual internal performance review system, and once done, should seek to have the CMC occasionally evaluated by an external reviewer.

Working group	All Stakeholders supported by a Fisheries M&E consultant
Priority	High
Status	Ongoing
Timeframe	12 months
MSC Performance Indicator(s)	Management performance evaluation 3.2.5.

4. TERMS OF REFERENCE

4.1 STOCK ASSESSMENT, RISK ASSESSMENT & DATA COLLECTION: RIMF

BACKGROUND

The Provincial Peoples Committee of Kien Giang Province (PPC), supported by the Department of Agriculture for Rural Development (DARD), Vietnam Association of Seafood Exporters and Producers (VASEP) and the World Wide Fund for Nature (WWF), is implementing a Fishery Improvement Project (FIP), to be carried out over 6 years (2011-2016), to support the long term goal of Marine Stewardship Council certification of the blue swimming crab (*Portunis pelagicus*) fishery (trap and tangle net). To this end, all stakeholders have endorsed a Fishery Improvement Plan and supporting Crab Management Plan. As part of this process, WWF and the Crab exporters, will set up a scientific assessment programme which will be responsible for determining stock status, and allied assessments, that will assist the Crab Management Council in proposing a management strategy that will meet the MSC standard by 2016.

This TOR is in process, with a contract agreed. One variation is identified in red, to address the issue of fishery specific management dependence for a genetically similar stock

DESCRIPTION OF the ASSIGNMENT

Global objective

The expected position by year 5 is that:

- There is an adequate assessment of the stock status;
- The stock assessment results will demonstrate that the stock is at a level which maintains high productivity and has a low probability of recruitment overfishing;
- A comprehensive range of information on stock structure, stock productivity, fleet composition, stock abundance, fishery removals (including bycatch) and other environmentally related information is available;
- Information is sufficiently robust to assess stock status and assess risks to secondary species,
 ETPs and habitats
- A fishery research plan exists that addresses the information needs for management.

Specific objectives

The purpose of the TOR is to set out the requirements for the Research Institute of Marine Fisheries (RIMF) to provide and update its scientific support for the implementation of appropriate stock assessment.

Requested Services

RIMF will provide services supported by in-house scientists for a period of 5 years, undertaking required of stock status and implementation of a number of measures that support a Harvest Control Strategy for blue swimming crab in Kien Giang Province. A number of specific outputs need to be introduced along

with supporting measures, which require deliberation by the Crab Advisory Council in order to set harvest strategies. These are:

Blue swimming crab stock assessment

- Advising on both Limit and Target Reference Point above the level at which there is an appreciable risk of impairing reproductive capacity;
- The target reference point is set such that the stock is maintained at a level consistent with BMSY or some measure or surrogate with similar intent or outcome¹⁰;

Ecosystem risk assessment

• Undertake a MSC designed Risk Based Framework Evaluation of the ecosystem components (secondary species, ETPs and habitats)

As part of the institution's undertakings, the team of scientists and technicians will:

- Prepare a Research Plan for the Kien Giang blue swimming crab fishery and associated bycatch species;
- Identify information requirements which will support knowledge of stock structure, stock productivity, stock abundance, fishery removals and other information such as environmental variables;
- Design and implement a data collection system that evaluates spatial and temporal changes in average crab carapace width, sex ratio, mould condition and proportion berried (ovigerous, i.e., carrying eggs), which prevent the opportunity to assess stock status and provide quantitative biological reference points and precautionary harvest control rules for stock management;
- Assess the historic levels of catches and determine the principal changes in volume, cpue and sizes that have occurred over the years;
- Design and implement a sample system that measures catch rates and catch composition for tangle net and trap fisheries, log book records and observer catch data including identification of independent and quantifiable bycatch observations;
- Implement an electronic fisheries information system to record, integrate, and analyze the potentially large quantity of data;
- Apply the most fruitful approaches for stock assessment;
- Ensure that outputs from the model are expressed as % unexploited biomass or an appropriate surrogate, rather than estimates of fishing mortality.
- Ensure that sources of uncertainty (i.e. statistical errors) are incorporated into the model so that likelihoods can be estimated or inferred
- Main uncertainties are taken into account when developing the revised harvest control rules
- Undertake a management strategy evaluation (MSE), to ensure that there is evidence in place to show that the management actions are achieving their objectives. Ensure that any actions

 $^{^{1010}}$ MSC requires a level set at 0.5 BMSY. Any variation to this would require justification, but most explicitly must be shown to be sufficiently precautionary.

recommended can be managed on a fishery specific scale¹¹, i,e that irrespective of genetic similarities with other South China Sea fisheries management actions will be able to demonstrate pay-back to the stakeholders in the Kien Giang fishery, and not be impacted by fishing activities, for example in other Vietnamese provinces, or in Cambodia or Thailand. This will require an analysis of currents and other variables that might affect the specific recruitment to the Kien Giang fishery.

- Undertake a Consequence and Productivity analysis of the ecosystem components in this fishery
- Update the RBF based on ongoing information received from observer records
- Provide technical advice to the CAC and DARD which will lead to the establishing of a robust and precautionary harvest strategy.

The methodology for the MSE is highlighted below:

The outputs that must be achieved are as follows:

MILESTONES	Timeline	REPORTING MEANS OF VERIFICATION
Milestone 2 Expected Observer programme operational;	Ongoing	Observer reports, and evidence that it the work is incorporated into scientific analysis
Milestone 4: Frame survey to assess independence of the stock and management implications	Q3 2016	Report on impact on fishery specific management measures
Milestone 5: Research Plan	Q1 2016	Research Plan publically available
Milestone 5: Report on crab size @ 50% maturity	Completed	Scientific report
Milestone 6: Assessment is subject to peer review	Completed	Peer review report
Milestone 7: Report on crab stock assessment submitted to CAC, but to address new additions to the TOR	To be updated	Report to CAC
Milestone 8: Scientific report is subject to peer review	Completed	Peer review report
Milestone 10: The limit and target reference point is set above the level at which there is an appreciable risk of	Q4 2016	Report to CAC

-

¹¹ Louisiana blue crab http://www.msc.org/track-a-fishery/fisheries-in-the-program/certified/western-central-atlantic/louisiana blue crab is also a separate stock within a genetic population.

impairing reproductive capacity				
Milestone 17/23: Undertake Management Strategy Evaluation	e a	Q3 2016	Ν	lethodology attached.
Milestone 27: Risk Assessitraining, workshop and PSA / reporting		Completed but to be updated	Training PPTs and works attendance records and assessment training	
Timeline priority				
Immediate: Year 3 (2013-2014)	Medium: Year 3 (2015)		Before FIP completion: Year (2016-2017)	

EXPERT'S PROFILE

Senior scientist

- 1. Qualifications and skills
- A post graduate qualification in stock assessment
- Knowledge of tropical crustacean fisheries

2. General professional experiences

- Proven track record in stock assessment from a Vietnamese Research Centre and at least 5 years of professional experience in the provision of advice to fishery managers
- A track record in setting up data collection systems and appropriate electronic fisheries information systems
- Working knowledge of biomass dynamic models, delay-difference models and depletion methods
- Clear knowledge of suitable harvest control strategies and rules and tools that are appropriate for linking the prescribed TRPs
- A working knowledge of English

Junior Scientist

- 1. Qualifications and skills
- A BSc in Marine sciences
- A high level of computer literacy with a capacity to understand mathematical models

2. General professional experiences

- Working knowledge of biomass dynamic models, delay-difference models and depletion methods
- Strong communication skills to facilitate problem solving in data collection

A working knowledge of English

Technician

1. Qualifications and skills

A high level of computer literacy with experience in data entry and extraction

- 2. General professional experiences
 - Working knowledge of data collection
 - Strong communication skills to support problem solving in data collection

Data collectors

- 1. Qualifications and skills
 - A bachelors degree in marine science and / or statistics is preferred
 - A high level of computer literacy with experience in data entry and extraction
- 2. General professional experiences
 - Field experience in data collection
 - Strong communication skills to support problem solving in data collection

Peer Reviewer/Senior scientist (ADDED)

- 3. Qualifications and skills
 - Doctorate in fishery or applied sciences
 - Experience in tropical species, but specific to Blue Swimming Crab would be preferable
 - Experience in the MSC fisheries assessment methodology

DURATION

The assignment will be for 5 years with a view to establishing long term linkages thereafter based on performance.

PLANNING

The assignment comprises a combination of scientific and technical input supported by a data collection, sampling and marine survey programmes.

4.2. LOGBOOK DATA COLLECTION SYSTEM: DARD

BACKGROUND

The Provincial Peoples Committee of Kien Giang Province (PPC), supported by the Department of Agriculture for Rural Development (DARD), Vietnam Association of Seafood Exporters and Producers (VASEP) and the World Wide Fund for Nature (WWF), is implementing a Fishery Improvement Plan (FIP), to be carried out over 6 years, to support the longer term Certification of Blue Swimming Crab (*Portunis pelagicus*) fishery with the Marine Stewardship Council. To this end, all

stakeholders have endorsed a Fisheries Improvement Plan and supporting Crab Management Plan. As part of this process, DARD will strengthen its existing logbook data collection programme which will form the basis for a strong fishery specific information system, supporting both research and review of fishing effort. This information will provide support to the Crab Advisory Council in proposing a management strategy that will meet the MSC standard by year 6.

DESCRIPTION OF the ASSIGNMENT

Global objective

The expected position by year 5 is that:

- Information on the nature and extent of retained species is adequate to determine the risk posed by the fishery and the effectiveness of the strategy to manage retained species;
- The expected position by year 5 is that relevant information is collected to support the harvest strategy.

Specific objectives

The purpose of the TOR is set out the requirements for DARD to provide information that will support information on fishery and bycatch removals and fishing effort that will support stock assessment and monitoring of the effectiveness of the harvest control strategy. The specific requirements are:

- Information is of a standard to quantifiably support the RIMF stock assessment requirements;
- Information is sufficiently accurate to support a comprehensive strategy to manage crab and to assess whether the strategy is achieving its objective;
- That the information available will support a comprehensive strategy on managing bycatch (other fishery removals **including retained species and ETPs**);
- Sufficient data are continually collected to detect any increase in risk to crab and bycatch species¹²

Requested Services

DARD will ensure that accurate and verifiable information is available on catch of crab and bycatch species, and that this, data is collected to a high standard complying with the above specific objectives across all sizes of vessel. A number of specific outputs need to be introduced along with supporting measures, which require deliberation by the Crab Management Council and the scientific research institution in order to monitor the effectiveness of Harvest strategies and provide accurate and certifiable information to RIMF.

The following deliverables are expected:

MILESTONES	Timeline	REPORTING VERIFICATION	MEANS	OF

¹² Bullets 3 & 4 are added to ensure that the Logbook system complies with the need to collect sufficient data to detect any increase in risk for bycatch species as part of the Ecosystem Approach.

Milestone 10: Logbook design, p	orinting and	Completed and amended to include web based recording	Logbook reports and data summaries		
Milestone 11: Enumerators engaged,	trained and				
begin data entry into an electro	nic fisheries				
information system		Ongoing	Training workshop reports		
Milestone 12: Fisher awareness		Ongoing	Workshop reports		
Milestone 13: Collection and reporting of fleet composition and incorporation into a web based system		Ongoing	Tables on fleet composition by size and gear type		
Timeline priority					
Immediate: Year 3 (2013-2014)	Medium: Year 3 (2015)		Before FIP completion: Year 3 (2016-2017)		

Expert's profile

Supervisor¹³

- 1. Qualifications and skills
- A Bachelors degree in statistics or superior knowledge data systems to supervisory levels
- Experience in data verification, entry and analysis
- 2. General professional experiences
 - Knowledge of fisheries or agricultural statistics
 - A track record in setting up data collection systems and appropriate electronic fisheries information systems
 - A working knowledge of English

<u>Technician (Short term technical assistance)</u>

- 1. Qualifications and skills
 - A computer science degree, or experience in data programming
 - A high level of computer literacy with experience in data entry and extraction
- 2. General professional experiences

 $^{^{13}}$ This may require contracted out inputs for support work from RIMF or NIO.

Programming skills sufficient to provide adaptations to revise the MARD Fisheries
 Information system to suite the fishery requirements

Enumerator

- 1. Qualifications and skills
 - A bachelors degree in marine science and / or statistics is preferred
 - A high level of computer literacy with experience in data entry and extraction
- 2. General professional experiences
 - Field experience in data collection
 - Strong communication skills to support problem solving in data collection

Data collectors

- 1. Qualifications and skills
 - A bachelors degree in marine science and / or statistics
 - A high level of computer literacy
 - A high level of computer literacy with experience in data entry and extraction
- 2. General professional experiences
 - Field experience in data collection
 - Strong communication skills to support problem solving in data collection

DURATION

The DARD programme will commence to the start of Project approval and will be continuous over 5 years leading up to the Fishery assessment, and continual thereafter.

PLANNING

The assignment comprises a combination of scientific and technical input supported by a data collection, sampling and marine survey programmes.

4.3 INSTITUTIONAL STRENGTHENING: CRAB ADVISORY COUNCIL, CMC COORDINATOR and CO-MANAGEMENT CONSULTANT

BACKGROUND

The Provincial Peoples Committee of Kien Giang Province (PPC), supported by the Department of Agriculture for Rural Development (DARD), Vietnam Association of Seafood Exporters and Producers (VASEP) and the World Wide Fund for Nature (WWF), is promoting a Fishery Improvement Plan (FIP), to be carried out over 6 years, ending December 2016, to support the longer term Certification of Blue Swimming Crab (*Portunis pelagicus*) fishery with the Marine Stewardship Council. To this end, all stakeholders have endorsed a Fisheries Improvement Plan and supporting Crab Advisory Plan. As part of this process, the consultation and decisions on management actions will be taken by a

Crab Management Council, with DARD acting as the implementer and enforcer of such actions; or in some cases, actions will be shared via co-management actions with fisher stakeholders.

The process thus requires:

- 1. Consultation through the CAC
- 2. Recommendations based on information procured by the CAC
- 3. Decision making, by DARD based on the recommendations of the CMC
- 4. Implementation by DARD and fisher co-management actions
- 5. Monitoring and evaluation, for and on behalf of the CMC.

DESCRIPTION OF THE ASSIGNMENT

Global objective

The expected position by year 6 is that:

- There is a robust and precautionary harvest strategy in place which is responsive to the state of the stock and is designed to achieve stock management objectives in the target and limit reference points;
- There are well defined and effective harvest control rules in place that are consistent with the
 harvest strategy and ensure that the exploitation rate is reduced as the limit reference points are
 approached;
- There are strategies in place for managing retained, bycatch, ETP species, and habitats;
- Evidence is in place to ensure that the strategies have been implemented successfully identified.
 Functions roles and responsibilities are explicitly defined and well understood for all areas of responsibility and interaction;
- The management system includes consultation processes that regularly seek and accept relevant information, including local knowledge. The management system demonstrates consideration of information and explains how it is used or not used;
- The consultation process provides opportunity and encouragement for all interested affected parties to be involved, and facilitates their effective engagement;
- Clear long and short term objectives are in place that guide decision making are in place, and are explicit within a Fishery Specific Management Plan;
- The Council's decision making processes respond to all issues identified in relevant research, monitoring, evaluation and consultation, in a transparent, timely and adaptive manner and take account of the wider implications of decisions;
- Explanations are provided for any actions taken and recommendations emerging from research, monitoring and evaluation and review activity;
- The Council has in place mechanisms to evaluate all parts of the management system and is subject to internal and external review processes.

Specific objectives

The purpose of the TOR is to set out the requirements for the Crab Management Council, the CMC Coordinator, DARD and the co-management organisations.

A. CRAB ADVISORY COUNCIL

Requested Services

The Kien Giang Crab Advisory Council (CMC) will be created, and its role supported by provincial law, or if fishing exists outside 24 nautical miles, by national law.

DARD: "must try, as far as practicable, to ensure that the membership of the Advisory Council includes an appropriate number of members engaged in, or with experience in, the industry in the fishery in relation to which the Advisory Council is established." Under the Law, the CAC will consist of a chairperson, an assigned DARD manager for that fishery and up to ten (to be decided) other members appointed following consultation. These should comprise a research member (RIMF), a member representing provincial government (PPC), an MCS manager (sub DARD), four industry members (two fisher representatives, and two processors), and a conservation member (WWF). This Council will play a central role in helping DARD meet its objectives by acting as key liaison bodies between DARD and those with an interest in a particular fishery. They will also provide direct advice to DARD on fisheriesmanagement policies and compliance with the activities set out in the Crab Management Plan, and assist in the development of cost-efficient management arrangements.

The role of the CAC should be defined in Provincial Law and its decisions promulgated into management regulations. The CAC's duties include:

- a) Prepare an annual Management Plan including setting of management indicators (stock abundance, CPUE, stock fecundity, economic indicators);
- b) Propose a management strategy and harvest rules and tools that ensure that the Plan can be implemented effectively;
- c) Promote the co-management of fisheries;
- d) Promote research, education, and training in relation to fisheries and the management of fisheries;
- e) Report on the outcomes of the plan, most specifically on how the management system responds to findings and relevant recommendations emerging from research. Monitoring and evaluation;
- f) Determine the fee structure to pay for a research and development fund, the operating expenses for the Council, and an independent peer review;
- g) Prepare or promote codes of practice concerning matters of relevance to fishery authorities and other stakeholders;
- h) Select of Council Members that fully represents the range of stakeholders involved in the fishery.

The core requirements of the Council would be:

Although consultation with industry and other interest groups can often be time-consuming, the experience suggests that it is the key to gaining broader acceptance and ownership of management decisions. Involving industry and other stakeholders in the decision-making process brings with it certain obligations and responsibilities, and DARD has made a concerted effort to inform all members on the CMC of the importance of their role. Specifically, Council members must be able to satisfy the following:

- They must act in the best interests of the fishery as a whole, rather than as an advocate for any particular organization or interest group.
- They must also be prepared to observe confidentiality and to exercise tact and discretion when dealing with sensitive issues.
- They must be able to put views clearly and concisely and be prepared to negotiate to achieve acceptable compromises where necessary.
- Industry members must have industry's confidence and authority to undertake their membership functions.
- They must avoid pursuing personal agendas, but participate in discussion in an objective and impartial manner.

The core requirements of the Council are to ensure that DARD regularly seeks and accepts relevant information, including local knowledge. The management system should be able to demonstrate that consideration is given to information and explains how it is used or not used. This may be taking place, and is evident through the FIP consultation, but it is important that the CAC coordinator is made aware of the specifics, and records the linkages between the committee's decisions and recording how information made available is used and not used. Milestone 35 has been revised to reflect this.

COUNCIL MEMBER'S PROFILE

DARD should develop a specific code of practice for CAC and require each member to sign their acceptance of this code formally. Involvement of industry in the decision-making structure through the CAC has brought with it significant industry responsibility and accountability. A most important benefit will be informed discussion and acceptance of management arrangements, research priorities, bycatch mitigation and stock assessment. Overall, the process will make significant progress towards overcoming the previous underlying mistrust between fishers and fisheries managers and researchers, and factional differences within the fishing industry. The PPC member is responsible for providing input to management decision. The PPC member will normally be a Director of Fisheries or experienced senior officer and is appointed on a 1-year rotational basis with the agreement of the PPC.

The research member is selected on the basis of his/her knowledge of a particular fishery. The Council requires research members to be persons of seniority and standing in the research community, and most are also actively involved in current research in the fishery. The research member not only provides scientific input to the deliberations but is also the conduit between fishers and the research community. The DARD member is normally the manager of the fishery, and is responsible for participating in discussion on a functional basis, contributing fisheries management expertise to the deliberations, providing an understanding of relevant Government policy, and for ensuring that the Council is aware of, and understands, PPC policy and the DARD's obligations under its governing legislation. In managing provincial fisheries, DARD and the CMC will strive to achieve a balance between resource use and conservation. In doing so they also draw upon scientific advice RIMF, NIO or VIFEP, representatives from scientific, economic, and management fields (see typical example in Table 1). RIMF will be responsible for producing annual assessments on the crab stock. Environmental/conservation interests are included in the consultation process. Fishers are represented by the separate communities

in the region (Provisionally identified as 5, and no more)¹⁴. Finally, the CMC will appoint a Joint Crab Compliance Working Group comprising the all Provincial MCS / compliance organizations, including the Border police, and DECAFIREP (if fishing occurs outside 24 nm). This group will be responsible for assessing enforcement risks and determining actions, and an appointed individual from the JCCWG will sit on the CMC.

B. CAC CO-ORDINATOR

CAC co-ordinator's profile

The CAC will appoint to full time position. The officer will have the following tasks;

- Liaising with all stakeholders;
- Organisation of meetings, reporting and distribution of minutes. These minutes must record the linkages between the committees decisions and recording how information made available is used and not used; Coordinating inputs for supporting organisations, as required – sub DARD and RIMF;
- Supervising the implementation of FIP actions, with the support of other coordinating bodies,
 WWF and VASEP
- Organising workshops community workshops to optimise the receipt of relevant information, to promote the harvest strategy and explain the decisions taken by the CAC.

The required outputs:

- Crab Advisory Council operational
- Draft Crab Management Plan endorsed, but updated annually;
- CAC co-ordinator appointed within 6 months;
- CAC weaknesses addressed and rectified by year 2;
- Co-management systems endorsed by CAC and bottom up participation fully operational by year
 4:
- Support materials procured for CAC/DARD.

CMC co-ordinator

1. Qualifications and skills

- At least 10 years historic experience at Senior Fisheries management level;
- Specific experience on formulating fisheries management decisions.

2. General professional experiences

- Knowledge of the Kien Giang fisheries;
- Strong communication skills.

¹⁴ Community fisher representatives should not be allowed to dominate the committee, but should be sufficiently representative of stakeholder structure in the region

C. DARD IMPLEMENTATION

DARD is organization responsible for implementing the management actions through Decrees.

DARD will undertake the following tasks:

- Implement a decision making process which is consistent with MSC requirements (Milestone 35b)
- Support the CAC, through participation and general in kind support for the secretarial services
- Refine its decision making processes to ensure decisions are made in response to management advice received from the CAC, which takes account of scientific research, stakeholder concerns and other inputs
- Act as a conduit for funding sources from the PPC in order to support key activities enforcement, licensing, data collection and community support
- Implement the supporting management Decrees
- Provide support to awareness programmes, which underpin the proposed changes to management actions
- Assist the CMC in measuring the effectiveness of the management measures

The required outputs will be:

- Revising Provincial Decrees
- Implementing licensing, management and control actions
- Supporting awareness
- With the support of the PPC, providing financial support to implement incentive systems, e.g. selective gears.

CO-MANAGEMENT SPECIALIST

The Provincial Peoples Committee of Kien Giang Province (PPC), supported by the Department of Agriculture for Rural Development (DARD), the Crab Processors Association (CPA) and the World Wide Fund for Nature (WWF), is promoting a Fishery Improvement Plan (FIP), to be carried out over 5 years, to support the longer term Certification of Blue Swimming Crab (*Portunis pelagicus*) fishery with the Marine Stewardship Council. To this end, all stakeholders have endorsed a Fisheries Improvement Plan (Annex 1) and supporting Crab Management Plan (Annex 2). As part of this process, CMC will seek to promote the creation of Community fisher groups. These groups will be formed into a network for the purpose of supporting co-management initiatives and providing an active role, through their nominated representatives, in the Crab Management Council. In order to facilitate the evolution of an effective network of community co-management groups, WWF/DARD will procure the services of a national co-management specialist.

DESCRIPTION OF the ASSIGNMENT

Global objective

The expected position by year 6 is that:

- Organisations and individuals involved in the management process have been identified;
- The management system includes consultation processes that regularly seek to accept relevant information including local knowledge;
- The consultation process provides opportunity and encouragement for all interested and affected parties to be involved and facilitates their effective engagement;
- There is a high degree of confidence that fishers comply with the management system under assessment including providing information of importance to the effective management of the fishery.

Specific objectives

The purpose of the TOR is to set out the requirements for a national expert to provide services to set up a system of community fisher organisations and train and assist fishers in establishing group networks.

Requested Services

The national expert will identify a structure similar to other effective community systems operating in Vietnam, e.g., Ben Tre and seek to adapt this system to Kien Giang province. Core community group interactions must clarify the following:

- A community structure group leaders and officers;
- Reaffirming broad goals and strategies;
- Clarifying expectations and determining the co-management activities;
- Clearly outlining management obligations to the Crab Management Council;
- Setting up support structures and mentoring roles to facilitate the development of community organizations;
- Creating a system of financial sustainability supported by seed funding (Year 1 only);
- Developing a culturally appropriate process and creating a community support structure to
 facilitate implementation (a village Fisheries Advisory Council), and defining actions to be
 undertaken by the community (including compliance actions) and support functions required by
 the higher authority;
- The community groups, facilitated by the NIO, setting up management plan linked to crab stocks and bycatch/ecosystem management;
- Ensuring continuing community commitment regular contact between communities and extension staff, exchange of information between communities, a review of fisheries management structures;
- Ensure participation of other stakeholder Fish processors, WWF, DARD, NIO, RIMF;
- Establishing communication linkages with other community groups.

The outputs that must be achieved are as follows:

• A number of community fisher groups operating effectively by year 5;

- Clear evidence of participation in management decision making, and linkages with the CMC by year 2;
- Clear evidence of community compliance by year 4.

Expert's profile

National consultant

1.Qualifications and skills

- Experience within Vietnam, in developing community fisher organisations
- Experience at Senior management level of a national government institute.

2. General professional experiences

• Knowledge of Vietnamese fisheries and / or Vietnamese rural development

DURATION

Following the signature of the contract, the consultant will be available for mobilisation within 10 working days. The exact date shall be agreed with WWF and DARD.

The expected outputs covering all institutional functions are as follows:

MILESTONES	Timeline	Supporting agencies	REPORTING MEANS OF VERIFICATION	
Consultation, roles & responsibilities,				
Milestone 34: CAC established	Completed	PPC & DARD	Decree	
Milestone 40: CAC coordinator appointed	Completed	DARD and stakeholders	Contract of appointment	
Milestone 41: Training needs assessment undertaken in DARD/CAC support functions	Completed	DARD	Terms of Reference on CMC elaborated	
Milestone 42: Roles and responsibility weaknesses identified and addressed.	Completed	DARD	Terms of Reference (refined)	
Milestone 43: Development of community co-management groups	Q4 2015	DARD	Record of meetings	
Milestone 44: Co-management groups commence participation in CMC functions	Q1 2016	DARD	Evidence of meetings and discussions on CMC requirements	

Decision making and fishery specific monitoring			
Milestone 35a: The consultation process regularly seeks and accepts relevant information, including local knowledge. The management system demonstrates consideration of the information and explains how it is used or not used.	Q1 2015	DARD and other stakeholders	CMC Minutes
Milestone 35b: Evidence that DARDs decision making processes respond to all issues identified in relevant research, monitoring, evaluation and consultation, in a transparent, timely and adaptive manner, apply the PAFM and take account of the wider implications of decisions (Q1 2015)	Q1 2015	DARD	Crab Management Plan
Milestone 36: FIP budget, log frame, and CMP is completed	Ongoing	All stakeholders	Crab Management Plan
Milestone 37: PAFM measures incorporated into the Management Plan and the Harvest Strategy	Incorporat ed	DARD	СМР
Milestone 38: Full HS and Bycatch mitigation incorporated into management plan	Coomplete d but to be reviewed	DARD	CMP
Milestone 39: Review of Management Plan implementation	Q4 2016	DARD	Review Plam against MSC criteria
Fishe	ries manage	ment	
Milestone 14: Precautionary harvest strategy adopted based on size limits/closed seasons	Q3 2016	DARD	Awaiting output from RIMF MSE
Milestone 15: Harvest strategy in place with set Reference points	Q3 2016	DARD	Awaiting adoption of TRP
Milestone 16: Evidence that the harvest strategy is likely to work	Q3 2016	RIMF/DARD	Scientific evaluation report
Milestone 17: Precautionary measures set	Q3 2016	DARD	Decree
Milestone 18: Community awareness programme	Q3 2015	DARD/Co- management groups	Programme, tools and workshops

Milestone 19: Input and output management rules and tools in place	Implement ed but to be reviewed after MSE	DARD	Decree
Milestone 20: Explore and implement positive incentives for improved geaselectivity and crab banks with Community groups.	Q1 2015	DARD/VASEP/Co- management groups	DARD/PPC incentive programme
Milestone 21: Community awareness with increased emphasis on comanagement	Q3 2015	DARD/Co- management groups	Programme, tools and workshops
Milestone 22: Evidence that the management tools are effective	Q3 2016	RIMF/DARD	Evaluation report
Milestone 31: Bycatch strategy commences and training and awareness campaign (WWF) begins	0.02015	Co-management organisation/DARD	Voluntary codes and decrees
Milestone 32: Evidence that the tools are effective	Q4 2016	NIO/ Co- management	NIO validation report
Timeline priority			
2011)	m: Year 4-5 2015)	Before FIP compl 2017)	etion: Year 6 (2016-

4.5 COMPLIANCE: MCS Operational Programme developed

BACKGROUND

The Provincial Peoples Committee of Kien Giang Province (PPC), supported by the Department of Agriculture for Rural Development (DARD), VASEP and the World Wide Fund for Nature (WWF), is promoting a Fishery Improvement Plan (FIP), to be carried out over 6 years, to support the longer-term Certification of Blue Swimming Crab (*Portunis pelagicus*) fishery with the Marine Stewardship Council. To this end, all stakeholders have endorsed a Fisheries Improvement Plan and supporting Crab Management Plan. As part of this process, DARD, supported by the Crab management Council will set up a Joint Crab Compliance Working Group which will be responsible for implementing compliance and enforcement activities in the Kien Giang fishery.

DESCRIPTION OF THE ASSIGNMENT

Global objective

The expected position by year 2016 is that:

 A comprehensive monitoring, control and surveillance system has been implemented tin the fishery and has demonstrated a consistent ability to enforce the management measures set by the Crab Management Council;

- Sanctions to deal with non-compliance exist, are consistently applied and demonstrably provide an effective deterrent;
- Evidence exists that fishers comply with the management system, including providing information of importance to the effective management of the fishery;
- There is no evidence of systematic non-compliance.

Specific objectives

The purpose of the TOR is to set out the requirements for an MCS Operational Programme and lay out the support requirements and activities required to implement an effective compliance and enforcement system.

Requested Services

DARD/sub DECAFIREP will be the implementing body to enforce the management measures set by the DARD.

Sub-DECAFIREP's duties include:

- 1. Following decisions made by the DARD, and resulting legal decisions put in place, the sub DECAFIREP will undertake, with the support of an international compliance consultant, a risk assessment, to determine appropriate deployment strategies;
- 2. Organisations and individuals involved in the compliance process should be well understood with a clear hierarchy of decision making and active coordination functioning between the various groups sub DARD, Border Police etc;
- Weaknesses in human and hard capacity identified and strengthened (including MCS training);
- 4. Withithe support of the FIP consultant, sub DECAFIREP will adopt an Operational Plan
- 5. Evidence should be in place of deployment actions taken (collection centre checks, boardings at sea), and results (penalties and confiscations). A time series of these activities and results should illustrate a demonstrably effective deterrent;
- 6. Awareness workshops should be promoted in cooperation with all stakeholder groups to explain the reasons for the measures and drawing on information received from community groups and fishers to support the effective implementation of the enforcement system.

WORKING GROUP MEMBER'S PROFILE

The working group should comprise all those organisations actively engaged in enforcement activities, notably sub DARD, sub DECAFIREP (Logbook and catch certificates, Marine Police and Border guards.

The outputs that must be achieved are as follows:

- Evidence that a risk assessment system is being applied by year 1 and ongoing
- Evidence that inspections are taking place and compliance is increasing by year 1
- Evidence that sanctions are acting as an effective deterrent by year 1
- Evidence that awareness groups are taking place and that these act as a supporting deterrent as well as a source of valuable information to the enforcement organisations by year 2

DURATION

Following the adoption of management measures by the CMC

PLANNING

To be decided by DARD. The International Expert will provide instruction on risk based techniques. A working example is shown in Appendix 3 of the Fishery Improvement Plan.

BUDGET

The budget for this work will be determined by DARD and funded by the PPC. WWF will fund the international expert.

RFPORTING

The following deliverables are expected:

MILESTONES	Timeline	REPORTING MEANS OF VERIFICATION
Milestone 45: Agency compliance coordination		
strengthened	Q4 2014	Meeting minutes
Milestone 46: Risk assessment of management		
measures undertaken and operational		Risk assessment and Operational
strategies determined	Q4 2015	Programme developed
Milestone 47 Enforcement strategies		DARD/Border police resources and
implemented	Q1 2016	report on actions
Milestone 48: Industry awareness workshops	Q2 2016	Workshop reports
Milestone 49: MCS Reports prepared and		
publicly available identifying violations detected	Q2 2016	Report on violations and sanctions
Milestone 50: Co-management responsibilities		
determined and community education system		
commences	Q3 2016	

COMPLIANCE TRAINING - NATIONAL EXPERT

BACKGROUND

The Provincial Peoples Committee of Kien Giang Province (PPC), supported by the Department of Agriculture for Rural Development (DARD), the Crab Processors Association (CPA) and the World Wide Fund for Nature (WWF), is promoting a Fishery Improvement Plan (FIP), to be carried out over 5 years, to support the longer term Certification of Blue Swimming Crab (*Portunis pelagicus*) fishery with the

Marine Stewardship Council. To this end, all stakeholders have endorsed a Fisheries Improvement Plan (Annex 1) and supporting Crab Management Plan (Annex 2). As part of this process, DARD, supported by the Crab management Council will set up a Joint Crab Compliance Working Group which will be responsible for implementing compliance and enforcement activities in the Kien Giang fishery. The different organisations represented on this group will require enforcement training from national expert.

DESCRIPTION OF THE ASSIGNMENT

Global objective

The expected position by year 6 is that:

- A comprehensive monitoring, control and surveillance system has been implemented in the fishery and has demonstrated a consistent ability to enforce the management measures set by the Crab Management Council;
- Sanctions to deal with non-compliance exist, are consistently applied and demonstrably provide an effective deterrent;
- Evidence exists that fishers comply with the management system, including providing information of importance to the effective management of the fishery;
- There is no evidence of systematic non-compliance.

Specific objectives

The purpose of the TOR is to set out the requirements for an MCS training programme for sub DARD, sub DECAFIREP, Marine Police and Border Police.

Requested Services

A national compliance officer will recruited to strengthen the capacity of fishery inspectors.

The following training activities will include:

- 1. Communication Intelligence gathering;
- 2. Standard operating procedures;
- 3. Evidence collection;
- 4. Safety at sea;

PROFILE

Compliance training officer

- 1. Qualifications and skills
 - Experience in training MCS officers within Vietnam.
- 2. General professional experiences
 - Strong communication skills.

DURATION

Following the adoption of management measures by the CMC

PLANNING

To be decided by DARD.

BUDGET

The budget for this work will be determined by DARD and funded by the PPC. WWF will fund the international expert input to support the risk assessment process.

REPORTING

The following outputs would be expected:

Training Certificates issued

4.6 PROJECT MANAGEMENT

INTERNATIONAL INSTITUTIONAL SPECIALIST

BACKGROUND

The Provincial Peoples Committee of Kien Giang Province (PPC), supported by the Department of Agriculture for Rural Development (DARD), VASEP and the World Wide Fund for Nature (WWF), is promoting a Fishery Improvement Plan (FIP), to be carried out over 6 years, to support the longer-term Certification of Blue Swimming Crab (*Portunis pelagicus*) fishery with the Marine Stewardship Council. To this end, all stakeholders have endorsed a Fisheries Improvement Plan and supporting Crab Management Plan. As part of this process, DARD, WWF and the VASEP, require the support of an international consultant with specific strengths across a number of fields: Monitoring and evaluation, Participatory and Rapid Rural Appraisal, Environmental Risk Assessment, Compliance Risk Assessment, Institutional strengthening and training needs analysis and Monitoring and evaluation

DESCRIPTION OF THE ASSIGNMENT

Global objective

The expected position by year 6 is that:

- The fishery has in place mechanisms to evaluate all parts of the management system and is subject to regular internal and external review;
- Evidence is in place to ensure that the management strategies have been implemented successfully identified. Functions roles and responsibilities are explicitly defined and well understood for all areas of responsibility and interaction;
- Information systems are adequate to determine the risks to target, retained, ETP species and habitats;
- A comprehensive monitoring, control and surveillance system is in place.

Specific objectives

The purpose of the TOR is to set out the requirements for an International institutional specialist/M&E consultant to strengthen a series of activities relating to monitor the FIP outcomes and to provide support and training in a number of activities including questionnaire methodologies, risk assessment. institutional strengthening and compliance.

Requested Services

The International consultant will be deployed biannually and will undertake a series of activities during his/her tenure. The consultant will report directly to WWF US (and VN), and DARD, and will liaise with the VASEP, and other stakeholders as required.

The following duties are required:

- Monitoring the performance of the stock assessment specialist and RIMF activities;
- Providing editorial oversight into documents produced by RIMF to ensure that they mee international standards, and are reader friendly;
- Monitoring the proposed NIO methodology for Rapid and Participatory Rural Appraisal, and Risk assessment and supervising one pilot test study;
- Undertaking a training needs assessment to CMC members, the CMC Officer, the Community management specialist, WWF Project Officer and supporting DARD officials;
- Training Compliance officers in risk assessment;
- Evaluating the performance of the CMC and related activities, and outcomes in management actions proposed;
- Reviewing reports from the WWF Project manager;
- Mentoring to various stakeholders as required;
- Supporting WWF Vietnam in a number of duties including preparing support input to reports for funders.

Expert's profile

<u>International consultant</u>

- 1. Qualifications and skills
- Post-doctoral degree in fisheries sciences, economics or community and social studies
- At least 10 years-experience in Programme Planning
- An intricate knowledge of the Marine Stewardship Council Fisheries Assessment methodology
- Experience in Environmental Risk Assessment, Compliance Risk Assessment and Rapid and Participatory Rural Appraisal
- Experience in Institutional Strengthening and Training Needs analysis in South and Sou East Asia
- 2. General professional experiences
- Knowledge of Vietnamese fisheries and / or Vietnamese rural development
- Working knowledge of English

DURATION

Following the signature of the contract, international consultant will be available for mobilisation within 10 working days. The exact date shall be agreed with WWF and DARD.

The assignment will be for 5 years with a view to establishing long term linkages thereafter based on performance.

PLANNING

REPORTING

- 1. Modification to FIP Action Plan, Logframe, FIP Tracking documents and Terms of Reference
- 2. Back to Office Reports
- 3. Budget amendments

PROJECT MANAGER

BACKGROUND

The Provincial Peoples Committee of Kien Giang Province (PPC), supported by the Department of Agriculture for Rural Development (DARD), the Crab Processors Association (CPA) and the World Wide Fund for Nature (WWF), is promoting a Fishery Improvement Plan (FIP), to be carried out over 6 years, to support the longer term Certification of Blue Swimming Crab (*Portunis pelagicus*) fishery with the Marine Stewardship Council. To this end, all stakeholders have endorsed a Fisheries Improvement Plan (Annex 1) and supporting Crab Management Plan (Annex 2). As part of this process, WWF requires the services of Vietnamese national Project Manager.

DESCRIPTION OF THE ASSIGNMENT

Global objective

The expected position by year 6 is that:

- The fishery has in place mechanisms to evaluate all parts of the management system and is subject to regular internal and external review;
- Evidence is in place to ensure that the management strategies have been implemented successfully identified. Functions roles and responsibilities are explicitly defined and well understood for all areas of responsibility and interaction;
- Information systems are adequate to determine the risks to target, retained, ETP species and habitats.

Specific objectives

The purpose of the TOR is to set out the requirements for the Project Manager to strengthen a series of activities relating to liaising with stakeholders.

Requested Services

The Project Manager will be expected to undertake a series of activities during his/her tenure. The national officer will report directly to WWF and the M&E consultant, and will be responsible for coordinating the FIP budget and tracking quarterly progress of the FIP

The following duties are required:

- Monitoring the progress of each Activity as defined in the Programme LogFrame (see CMP), and the above defined reports as provided in the above TORs
- Managing the budget on behalf of WWF, and monitoring programme expenditure
- Communicating with DARD, and other stakeholders, as required
- Participating in workshops, and the activities of the CMC

- Reporting and liaising with WWF and the International consultant
- Mentoring to various stakeholders as required
- Supporting WWF in a number of duties including preparing support input to reports for funders

Expert's profile

WWF Programme Manager

- 3. Qualifications and skills
- A degree in environmental science
- Experience in Project management
- Knowledge of the Marine Stewardship Council Fisheries Assessment methodology
- 4. General professional experiences
- Knowledge of Vietnamese fisheries and / or Vietnamese rural development
- Working knowledge of English

DURATION

The assignment will be for 6 years with a view to establishing long term linkages thereafter based on performance.

PLANNING