

Vietnam mixed species - trawl - FIP Vung Tau

Fishery Improvement Project (FIP) Workplan

Fisheries Action Plan Overview

Workplan Version and Date	July 29, 2021
Start date (expected)	End date (anticipated month/year)
01/10/2021	31/12/2024
FIP Lead (organization/individual responsible for Action Plan)	Improvements recommended by (meeting/group that supported the development)
The Fishmeal & Fish Oil Association of Ba Ria - Vung Tau province	<ol style="list-style-type: none"> 1. Ba Ria - Vung Tau Fisheries Department (LE Tong Van, NGUYEN Van Bi) 2. Department of Marine Fisheries Resources Research of Research Institute Of Marine Fisheries (VU Viet Ha, TRAN Van Cuong, MAI Cong Nhuan, HOANG Minh Tung) 3. Fishery Management Department / Institute for Marine Science & Fishing Technology - Nha Trang University (TRAN Van Hao) 4. Kim Delta T&C (NGUYEN Kim Thanh)
FIP Coordinator (organization/individual responsible for reporting on FisheryProgress)	Work Plan developed by (consultant or person)
KIM DELTA T&C <ol style="list-style-type: none"> 1. STARMANS Steven - Project Manager 2. NGUYEN Kim Thanh - Project Coordinator 	<ol style="list-style-type: none"> 1. STARMANS Steven / Kim Delta T&C 2. NGUYEN Kim Thanh / Kim Delta T&C

Acronyms

BRVT	Ba Ria - Vung Tau province
MARD	Ministry of Agriculture and Rural Development
DARD	Department of Agriculture and Rural Development (provincial level)
Sub-DOF	Sub Department of Fisheries (provincial level)
EEZ	Exclusive economic zone
ETP	Endanger, Threaten and Protected
ToR	Terms of References
CPUE	Catch per unit effort
VMEs	Vulnerable Marine Ecosystems

UoA	Unit of Assessment, or trawl fisheries of BRVT
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Unit of Assessment(s)

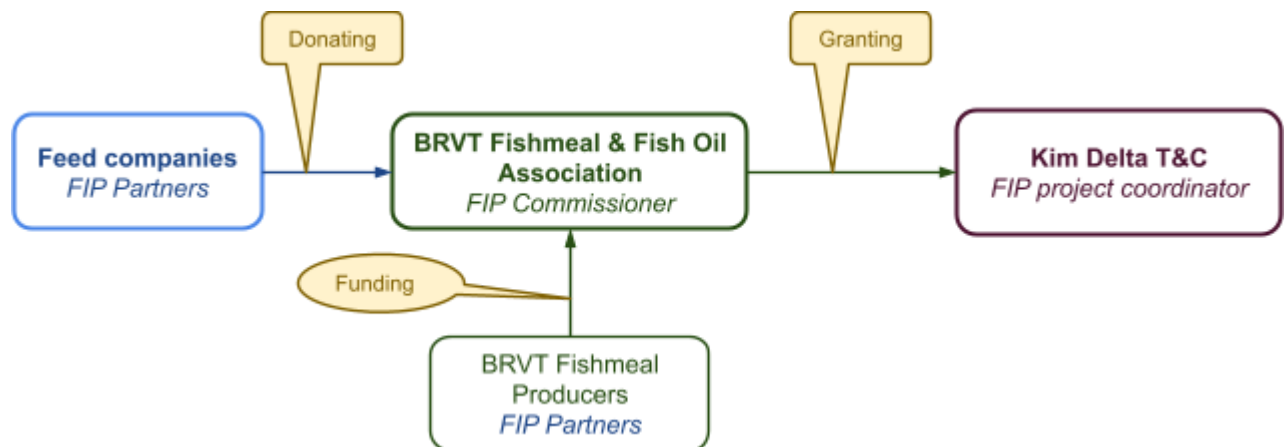
UoA 1	Description
Target species (common and scientific name)	Multispecies, demersal resources <i>Indicator species:</i> <ol style="list-style-type: none"> 1. Greater lizardfish (<i>Saurida tumbil</i>); 2. Blunt-nose lizardfish (<i>Trachinocephalus myops</i>); 3. Sulphur goatfish (<i>Upeneus sulphureus</i>); 4. Bigeye scad (<i>Selar crumenophthalmus</i>); and 5. Yellowtail scad (<i>Atule mate</i>)
Stock	Demersal resources
Geographical area	Southeast Area of Vietnam (the coastal waters, inshore waters under administration of Ba Ria - Vung Tau province) and waters from the inshore route to the outer boundary (offshore) of Vietnam's exclusive economic zone (EEZ) Fishing area is FAO 71
Fishing method or gear type	Otter trawl, Pair trawl
Fishing fleet or group of vessels, or individuals fishing operators pursuing stock	All trawl fleets registered and licensed by People's Committee of Vung Tau Trawl fleets allowed to land at ports in Ba Ria - Vung Tau province

About Ba Ria - Vung Tau FIP

FIP Participants

The FIP partners are feed companies and their suppliers - fishmeal producers in Ba Ria - Vung Tau province.

Fishmeal producers are organised in Ba Ria - Vung Tau Fishmeal and Fish Oil Association (the Association), which is under jurisdiction of the provincial Fishery Association, as a whole legal entity. The association is the commissioner of the project and receives financial contributions from partners to run the project. The association awarded a grant to Kim Delta T&C for the FIP/FAP implementation.



- Ba Ria - Vung Tau Fishmeal and Fish Oil Association: the association plays the role of the project commissioner and FIP fund receiver. They are also responsible for all communication from the FIP to relevant authorities (i.g: Directorate of Fishery, Provincial Committee of People, Provincial Fishery Department, Landing Port Management), associations (Fishery Association) and interest parties.
- Feed manufacturers financially support the FIP and use their buying power to engage fishmeal producers to participate in the FIP.
- Fishmeal producers financially support the FIP and are the connector from FIP to the fishermen communities. They are the clients of the fishermen and can apply direct pressure for improvement.

FIP other key stakeholders

1. Government Experts

First of all it is impossible for the FIP to manage the responsibilities of government experts. The best chance is to find common ground and mutual interests.

Higher provincial authorities have the responsibility to implement provincial and national policies. In general policies and laws are good but enforcement is not. Often personal relationships are needed to push priorities towards sustainable fishery.

Main government experts are from the provincial Fishery Department of Ba Ria - Vung Tau. Their role is the facilitator so that the Fishery Action Plan of the FIP aligns with the provincial master plan. They collaborate with the FIP in terms of fishery management data sharing, enabling fishing records from fishermen and coordinating dialogues or workshops from the FIP to local stakeholders (i.g: landing ports, fishermen, provincial Department of Agriculture and Rural Development, provincial Committee of People).

2. Consultants

Consultants in this FIP include Kim Delta, Fish Matter and universities.

- Kim Delta T&C is the contractor of the FIP, providing expertise in project management. Kim Delta also supports the Fishmeal & Fish Oil association to engage interest parties into the FIP and internationally acts on behalf of the association.

- Fish Matter is the sub-contractor of Kim Delta T&C for FIP technical issues related to trawl fishery multi-species stock assessment.
- Universities are sub-contractors of Kim Delta T&C. They are Nha Trang university (NTU) and Can Tho university (CTU) and responsible of 4 tasks:
 - a. On-site implementing trawl fishery multi-species stock assessment that will be under guidance and supervision of Fish Matter.
 - b. Forming a peer-review committee for trawl fishery multi-species stock assessment methodology and reports.
 - c. Conducting research defined in the FAP.
 - d. Presenting assessment and research results as well as recommendations to relevant authorities at provincial (and/or national) level(s) and stakeholders.

3. Fishermen

The key role of fishermen in the FIP is providing fishing data and information. They may not be willing to do so, but these have become mandatory by law. Furthermore, the province has indicated to bring back the number of fishing vessels from 5809 in 2020 to 5000 by 2030.

The FIP partners from the Fishmeal companies are the clients of the Fishermen. There will be more and more pressure from the clients, favoring the fishermen who cooperate towards sustainable fishing.

4. Non-governmental organisations (NGOs)

The FIP plan to engage 2 NGOs in the implementation phase, discussions are already going on with WWF Vietnam and Centre for Marinelife Conservation and Community Development ([MCD](#)).

FIP Actions

Section 1 – Management/governance framework

1. Gap description:

M1 - Legislation, policy and plans: M1.7, M1.8 and M1.9

- The Ba Ria - Vung Tau (BRVT) fishery management plan is not complete, the existing provincial master plan to year 2030 has covered objectives for BRVT fisheries. However, the plan does not set out the activities necessary to achieve the stated objectives and does not include a budget for such activities.
- A specific trawl fisheries management plan for BRVT is not established, hence goals and operational objectives for trawl fisheries of BRVT are not set. Roles and responsibilities therefore are not assigned to related fishery management and partner organisations.

The reason for those gaps is because the provincial master plan was only issued in March 2021, it may take some time for the Department of Agriculture and Rural Development (DARD) of BRVT province and Sub-Department of Fishery (DOF) BRVT (as defined by organisational structure) to prepare and propose the implementation plan to BRVT People's Committee.

M2 - Institutions and stakeholders engagement: M2.5

Fisheries co-management is the oldest form of governance arrangement for coordination management between the government organisation and key stakeholders (local communities). This kind of arrangement has been piloted for about 20 years with financial and technical support from government, international and national NGOs. The implementation of fisheries co-management so far is not really effective. There are not any committees in place to facilitate coordination across stakeholders and jurisdictions. Experts of Southeast Asia Fisheries Development Center (SEAFDEC) and World Fisheries Center (World Fish) states that an incomplete legal framework, the funding for the programs is not from the fishing grounds that the fishing community operates, limited awareness and capacity of fishermen and officials of authorities (from central to local level) on fishery co-management, not having enough qualified personnel to do the job are reasons of the failure.

M3 - Monitoring, control and surveillance: M3.3 and M3.4

- In 2020, the authorities of BRVT detected 102 violating fishing vessels, in which there are 28 cases of illegal fishing (fishing without a license, fishing in the wrong area, not equipped with tracking devices, not recording, not reporting)
- Only 40% of trawl fishing vessels (598 out of 1476 vessels) in BRVT are reported to hand-over their fishing logbooks to nominated authorities from the beginning of 2021 to June 2021.

Inspectors of the European Commission, through inspections of Vietnam's yellow card lifting process, concluded in their report that the coordination between the departments, ministries, branches and People's Committees of 28 coastal provinces and cities is not tight enough in exchanging information, detecting, preventing, investigating and promptly handling violations. The annual Sub-DOF of BRVT report said that they have a lack of resources to fully control the fisheries and effectively enforce applicable law and regulations.

2. Actions

In order to fill all above gaps, following actions need to be carried out:

Table 1.1 Action Plan Table for Action 1.1: A management plan for trawl fishery in BRVT

Action Number and Name	Action 1.1 Consult and propose DARD BRVT and Sub-DOF a management plan for trawl fishery in BRVT.
Action Goal	Support BRVT authorities for better management of trawl fisheries activities in the province.
Action Description	<p>Trawl fisheries do not seem a priority for BRVT. Support from the fishmeal sub-sector and its business partners in developing a management plan for trawl fisheries in the province should help in sharing the burden of management with DARD and Sub-DOF.</p> <p>1.1.1 Assessment about status of trawl fisheries management in BRVT</p> <p>1.1.2 Present and discuss with Sub-DOF about results of the assessment and actions</p> <p>1.1.3 Consultation workshops with key stakeholders</p> <p>1.1.4 Develop trawl fisheries management plan based on outputs of 1.1.2 and 1.1.3</p> <p>1.1.5 Propose to Sub-DOF to incorporate the trawl fisheries management plan into the provincial master management plan of BRVT fishery.</p>
Expected Completion Date	December 2022
Priority	High
Estimated Cost	10.000 USD
Responsible Parties	<ul style="list-style-type: none"> - DARD BRVT - Sub-DOF BRVT - Fishery Association of BRVT - Fishmeal & Fish Oil Association of BRVT - Kim Delta T&C - Nha Trang University / Institute for Marine Science & Fishing Technology
Gaps addressed by the Action	M1- Legislation, policy and plans

Table 1.2 Action Plan Table for Action 1.2: A mechanism for fisheries information sharing with DARD, Sub-DOF BRVT and BRVT Port authorities

Action Number and Name	Action 1.2 Propose a mechanism with DARD, Sub-DOF BRVT and BRVT Port authorities for sharing information about fisheries in BRVT.
Action Goal	Support BRVT authorities for better management of trawl fisheries activities in the province.
Action Description	1.2.1 Mapping fisheries information owners/sources 1.2.2 Dialogues about ways to share information 1.2.3 Develop a fishery database for trawl fisheries and fisheries related activities in BRVT 1.2.4 Consultation workshops with stakeholders 1.2.5 Finalise fisheries database for BRVT
Expected Completion Date	June 2022
Priority	High
Estimated Cost	14.000 USD
Responsible Parties	<ul style="list-style-type: none"> - DARD BRVT - Sub-DOF BRVT - Fishery Association of BRVT - Fishmeal & Fish Oil Association of BRVT - Kim Delta T&C
Gaps addressed by the Action	M2 - Institutions and stakeholders engagement M3 - Monitoring, control and surveillance

Section 2 - Fishery risk ratings: Catch, ETPs, habitats and ecosystem

1. Gap descriptions

Section 2a: Catch

Part A - Total aggregate catch:

- There are no reference points that have been set up yet.
- Data is not recorded at species level. Only 40% of trawl fishing vessels have implemented recording in fishery logbooks.
- Only biomass data at species level is reported.
- Data of total landings from fisheries, CPUE, species composition and catch composition are not available at species level.
- There is no evidence about effectiveness of existing management measures (seasonal closing regions, periodic fishing restrictions). Harvest strategies linked to Maximum Sustainable Yield (MSY) are not developed yet.
- Specific management objectives for trawl fisheries in BRVT are not included yet in the provincial plan.

Part B - High-risk species/species groups:

- A thorough and comprehensive study about high-risk species groups has not been conducted yet.
- Qualitative information to conduct a Productivity Susceptibility Analysis (PSA) is not sufficient.
- Lack of catch information on individual species.

- The status of high-risk species is unknown.
- No management measures have been developed.
- Management performance is not evaluated.

Section 2b - Endangered, threatened and protected species groups:

- A comprehensive study about the interaction/effects of the trawl fishery with/on ETP in BRVT waters is not conducted yet.
- The Mangroves for the Future report (2015) concluded that Marine Protected Area managers in Vietnam are not empowered to enforce laws and do not have adequate funding and staff with backgrounds in marine biology.

Section 2c - Habitats:

- A comprehensive study about the nature, distribution and vulnerability of the commonly encountered habitats in BRVT waters is not conducted yet.
- There are no scientific studies to evaluate interaction.
- No evidence to prove that a habitat management system exists.

Section 2d - Ecosystems:

- There is no information to identify the key ecosystem elements in BRVT waters, hence main impacts of the trawl fishery on these key ecosystem elements cannot be inferred.
- There is no evidence of species-specific management measures in place.

2. Actions

Table 2.1 Performance Indicator Action Plan Table for Action 2.1. Develop guidance for Multi-species stock assessment applicable for trawl fisheries

Action Number and Name	2.1. Develop guidance for Multi-species stock assessment applicable for trawl fisheries
Action Goal	Be able to conduct stock assessment for indicator species of mixed species trawl fisheries of BRVT.
Action Description	There are several guidelines for multi-species stock assessment, however, reports about specific application for trawl fisheries are not available. The stock assessment for multi-species must be feasible to enable other activities of section 2a. Steps are as following: 2.1.1 Develop guidance for 'Multi-species stock assessment' 2.1.2 Form the peer review committee 2.1.3 Conduct the peer review 2.1.4 Finalise the guidance document 2.1.5 Develop ToRs & contracts
Expected Completion Date	June 2022
Priority	High
Estimated Cost	31.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Fish Matter Pty Ltd - Nha Trang University / Institute for Marine Science & Fishing Technology - Kim Delta T&C

Gaps addressed by the Action	Part A - Total aggregate catch
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Table 2.2 Performance Indicator Action Plan Table for Action 2.2 Multi-species stock assessment for BRVT

Action Number and Name	2.2 Conduct multi-species stock assessment for BRVT with focus on 5 target species.
Action Goal	Be able to set target reference points and strategies for harvest and stock rebuilding.
Action Description	<p>Once the stocks are known, target reference points can be set up, the stock rebuilding strategy will be suggested, and so are the harvest strategy and harvest rules. These activities are closely related and therefore should be included in a component. Steps are as following:</p> <p>2.2.1a Design stock assessment for trawl fisheries in BRVT; 2.2.1b VN trip stock assessment for trawl fisheries in BRVT; 2.2.2 Form peer review committee 2.2.3 Conduct peer review for stock assessment framework 2.2.4 Finalise the stock assessment framework 2.2.5 Conduct stock assessment for trawl fisheries in BRVT</p>
Expected Completion Date	July 2024
Priority	High
Estimated Cost	94.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Fish Matter Pty Ltd - Nha Trang University / Institute for Marine Science & Fishing Technology - Kim Delta T&C (Project management)
Gaps addressed by the Action	Part A - Total aggregate catch

Table 2.3 Performance Indicator Action Plan Table for Action 2.3 BRVT Trawl fisheries data collection

Action Number and Name	2.3 Collect data of BRVT Trawl fisheries.
Action Goal	Gathering sufficient information will help ensure an appropriate precautionary approach is implemented and management decisions can be made as well as make sure appropriate objectives can be set up for the fishery
Action Description	<p>This action will implement those recommendations at provincial level.</p> <p>2.3.1 Design for upgrade trawl fisheries data collection system that can provide correct information about species caught and land, species composition, CPUE and other fishing effort data; 2.3.2 Introduce the upgrade to DARD and sub-DOF of BRVT and propose for pilot application; 2.3.3 Pilot with some trawl fleets that registre with BRVT authorities; 2.3.4 Analyse data;</p>

	<p>2.3.5 Hold workshops to share with stakeholders about pilot results and discuss for expansion of application to all trawl fleets under BRVT administration;</p> <p>2.3.6 Present to BRVT People's Committee and DARD;</p> <p>2.3.7 Follow up</p>
Expected Completion Date	April 2024
Priority	High
Estimated Cost	16.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Fisheries Information Center - Reliable & Competent Institution - Fishery Sub-Department of BRVT - Landing port authorities - Kim Delta T&C (Project management)
Gaps addressed by the Action	<p>Section 1, Part A - Total aggregate catch</p> <p>Section 1, Part B - High-risk species/species groups</p>

Table 2.4 Performance Indicator Action Plan Table for Action 2.4 Develop BR-VT ETP species database

Action Number and Name	2.4 Develop BR-VT ETP species database.
Action Goal	Have sufficient information to enable assessment of the impact of trawl fisheries in BRVT on ETP species, measurements of trends and management of the impact.
Action Description	<p>Information on ETP species of BRVT is scattered. There is a need for gathering information from available and ongoing studies by environmental organizations (e.g: WWF, IUCN) and institutions in BRVT and landing data so that a full assessment of the impact of trawling on the ETP species in BRVT can be completed.</p> <p>2.4.1 Revise fishing logbook for trawl fisheries that enable record ETP species caught;</p> <p>2.4.2 Introduce the new logbook to sub-DOF of BRVT and propose for pilot application;</p> <p>2.4.3 Pilot with some trawl fleets that registre with BRVT authorities;</p> <p>2.4.4 Conduct landing site inspections of BRVT trawl vessels and check for ETP species landings;</p> <p>2.4.5 Analyse data and revise (if necessary);</p> <p>2.4.6 Hold workshops to share with stakeholders about pilot results and discuss for expansion of application to all trawl fleets under BRVT administration;</p> <p>2.4.7 Present to BRVT People's Committee and DARD;</p> <p>2.4.8 Follow up.</p>
Expected Completion Date	April 2024

Priority	High
Estimated Cost	15.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Directorate of Fisheries of Vietnam - Fisheries Information Center - Reliable & Competent Institution - Fishery Sub-Department of BRVT - Landing port authorities - Kim Delta T&C (Project management)
Gaps addressed by the Action	<p>Section 1, Part B - High-risk species/species groups</p> <p>Section 2b - Endangered, threatened and protected species groups</p>

Table 2.5 Performance Indicator Action Plan Table for Action 2.5 Conduct assessment about impacts of trawl fisheries on ETP species in BRVT

Action Number and Name	2.5 Conduct assessment about impacts of trawl fisheries on ETP species in BRVT.
Action Goal	Be able to set impact limits on ETP species.
Action Description	<p>In order to mitigate the impacts of trawling on ETP species, it is essential to understand how trawling has and is affecting ETP species. This work includes a review of available and ongoing studies in the BRVT by institutions, and observation of fishing trawlers at sea. The research results are then shared with the authorities, stakeholders and interested parties. Organize consultations with stakeholders on the issue of determining the limit of impact of trawling on ETP species.</p> <p>2.5.1 Conduct an assessment about the interaction of BRVT trawl fisheries with ETP species, including observation on board fishing vessel;</p> <p>2.5.2 Introduce the assessment results to stakeholders and have their consultation for proposed impact limits on ETP species.</p>
Expected Completion Date	April 2023
Priority	High
Estimated Cost	4.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Directorate of Fisheries of Vietnam - Fisheries Information Center - Reliable & Competent Institution - Fishery Sub-Department of BRVT - Landing port authorities - Kim Delta T&C (Project management)
Gaps addressed by the Action	Section 1, Part B - High-risk species/species groups

	Section 2b - Endangered, threatened and protected species groups
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Table 2.6 Performance Indicator Action Plan Table for Action 2.6 Collecting information relating to at-sea garbage disposal and gear loss/retrieval, and associated ghost fishing

Action Number and Name	2.6 Collecting information relating to at-sea garbage disposal and gear loss/retrieval, and associated ghost fishing.
Action Goal	Having sufficient information about the nature, distribution and vulnerability of the commonly encountered habitats in waters within UoA to allow identification of the main impacts of trawl fisheries on the commonly encountered habitats in BRVT.
Action Description	2.6.1 Scientific desk review about the nature, distribution and vulnerability of the commonly encountered habitats in waters under BRVT administration; 2.6.2 Develop information collecting system for at-sea garbage disposal and gear loss/retrieval, and associated ghost fishing; 2.6.3 Introduce to sub-DOF of BRVT; 2.6.4 Collect data; 2.6.5 Analyse data; 2.6.6 Present to BRVT People's Committee and DARD.
Expected Completion Date	July 2024
Priority	High
Estimated Cost	12.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Directorate of Fisheries of Vietnam - Fisheries Information Center - Reliable & Competent Institution - Fishery Sub-Department of BRVT - Landing port authorities - Kim Delta T&C (Project management)
Gaps addressed by the Action	Section 2c - Habitats

Table 2.7 Performance Indicator Action Plan Table for Action 2.7 Conduct a study about Vulnerable Marine Ecosystems (VMEs) within the waters under the administrative management of BRVT province.

Action Number and Name	2.7 Conduct a study about Vulnerable Marine Ecosystems (VMEs) within the waters under the administrative management of BRVT province.
Action Goal	Identify features that are physically or functionally fragile, and the most vulnerable are both easily disturbed and are very slow to recover.
Action Description	The South-eastern waters where the traditional fishing ground of BRVT trawl fisheries are flat with a muddy and sandy bottom. The coral distributed in Con Dao islands and seagrass are in coastal zones. There is no scientific research on habitat degradation due to trawling, although it is

	<p>believed that the trawl activities have risks on habitats. Studies about Vulnerable Marine Ecosystems (VMEs) within the waters under the administrative management of BRVT province. Any known impacts from ghost fishing, as related to at-sea garbage disposal and gear loss/retrieval should be covered by such studies.</p> <p>2.7.1 Conduct a study about Vulnerable Marine Ecosystems (VMEs) within the waters under the administrative management of BRVT province;</p> <p>2.7.2 Present the study's results to DARD and the sub-DOF of BRVT.</p>
Expected Completion Date	July 2024
Priority	Medium
Estimated Cost	2.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Reliable & Competent Institution - Kim Delta T&C (Project management)
Gaps addressed by the Action	Section 2c - Habitats

Table 2.8 Performance Indicator Action Plan Table for Action 2.8 Develop habitats management plan for BRVT.

Action Number and Name	2.8 Develop habitat management plan for BRVT.
Action Goal	Introduce appropriate conservation measures to mitigate the impact of trawl fisheries in BRVT on habitats in place.
Action Description	<p>2.8.1 Develop habitat management plan;</p> <p>2.8.2 Hold consultation workshops with stakeholders;</p> <p>2.8.3 Present final plan to DARD and the sub-DOF of BRVT and support for implementation.</p>
Expected Completion Date	April 2023
Priority	Medium
Estimated Cost	2.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Reliable & Competent Institution - Kim Delta T&C (Project management)
Gaps addressed by the Action	Section 2c - Habitats

Table 2.9 Performance Indicator Action Plan Table for Action 2.9 Conduct a study about the key ecosystem elements of the UoA.

Action Number and Name	2.9 Conduct a study about the key ecosystem elements of the UoA.
Action Goal	Understanding of key ecosystem elements and the trawl fisheries's impact on the ecosystem.

Action Description	There is no information to identify the key ecosystem elements, hence main impacts of the UoA on these key ecosystem elements cannot be inferred. In this action, a competent institution will conduct a study about key ecosystem elements of water under jurisdiction of BRVT. The results will be presented to DARD and sub-DOF of BRVT for further actions. 2.9.1 Conduct a study about the key ecosystem elements of the UoA; 2.9.2 Present the study's results to DARD and the sub-DOF of BRVT.
Expected Completion Date	April 2023
Priority	Medium
Estimated Cost	1.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Reliable & Competent Institution - Kim Delta T&C (Project management)
Gaps addressed by the Action	Section 2d - Ecosystems

Table 2.10 Performance Indicator Action Plan Table for Action 2.10 Conduct studies on status and changes of demersal resources with impacts of trawl fisheries.

Action Number and Name	2.10 Conduct studies on status and changes of demersal resources with impacts of trawl fisheries.
Action Goal	Getting comprehensive information on demersal resources.
Action Description	Information on status and changes of demersal resources with impacts of trawl fisheries is scattered. A complete desk study is necessary to assess whether the UoA is highly unlikely to disrupt the key elements underlying ecosystem structure and function to a point where there would be a serious or irreversible harm. The study results will be presented to DARD and sub-DOF for their future actions. 2.10.1 Conduct a desk study to review and analysis the available historical trawl survey data in BRVT; 2.10.2 Present the study's results to DARD and the sub-DOF of BRVT.
Expected Completion Date	April 2023
Priority	Medium
Estimated Cost	2.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Reliable & Competent Institution - Kim Delta T&C (Project management)
Gaps addressed by the Action	Section 2d - Ecosystems

Table 2.11 Performance Indicator Action Plan Table for Action 2.11 Develop ecosystem management plan for the UoA.

Action Number and Name	2.11 Develop ecosystem management plan for the UoA.
Action Goal	Effectively addressing ecosystem impacts from the UoA.
Action Description	<p>There is no evidence of specific management measures in place, hence with this action, FIP Vung Tau will develop an ecosystem management plan, based on ecosystem information and outcome that are addressed by previous actions. Consultation processes with stakeholders will be carried out prior to the plan being presented to DARD and sub-DOF.</p> <p>2.11.1 Develop ecosystem management plan; 2.11.2 Hold consultation workshops with stakeholders; 2.11.3 Present final plan to DARD and the sub-DOF of BRVT and support for implementation.</p>
Expected Completion Date	April 2023
Priority	Medium
Estimated Cost	1.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Reliable & Competent Institution - Kim Delta T&C (Project management)
Gaps addressed by the Action	Section 2d - Ecosystems

Table 2.12 Performance Indicator Action Plan Table for Action 2.12 Manage the project of implementation of Fishery Improvement work plan (Project Management)

Action Number and Name	2.12 Project Management
Action Goal	Ensure that all actions covered by this action plan are executed and achieve its goals within the agreed timeframe and budget.
Action Description	<p>2.12.1 Develop ToRs & contracts 2.12.2 Organize workshops, conferences, meetings 2.12.3 Administration and payments</p>
Expected Completion Date	December 2024
Priority	High
Estimated Cost	45.000 USD
Responsible Parties	<ul style="list-style-type: none"> - Kim Delta T&C (Project management)
Gaps addressed by the Action	All identified gaps.

