

No.: 687 /QD-BNN-TCTS

Hanoi, February 05<sup>th</sup> 2021

## DECISION

### **Approval of the action plan on marine plastic waste management for the fisheries sector, 2020-2030 period**

#### MINISTER OF AGRICULTURE AND RURAL DEVELOPMENT

*Pursuant to the Decree No. 15/2017/QD-TTg dated February 17<sup>th</sup>, 2017 of Prime Minister on defining the task, authority and system structure of Vietnam Ministry of Agriculture and Rural Development;*

*Pursuant to the Decision No. 1746/QD-TTg dated December 4<sup>th</sup>, 2019 of Prime Minister on promulgating the National Action Plan on marine plastic debris management through 2030*

*Pursuant to the Decision No. 1777 / QD-BNN-TCTS dated May 20<sup>th</sup>, 2020 of the Minister of Agriculture and Rural Development on assigning the task of developing "Action plan on marine plastic waste management for the fisheries sector through 2030 ";*

*Considering the request of Director of Directorate of Fisheries.*

## DECISION:

**Article 1.** To approval of “Action Plan on marine plastic waste management for the fisheries sector, 2020-2030 period” (Details are in the attached Appendix).

**Article 2.** The Directorate of Fisheries is assigned to assume the prime responsibility for, and coordinate with relevant agencies and local authorities in organizing the implementation and periodically and irregularly reporting to the Ministry of Agriculture and Rural Development.

**Article 3.** This Decision takes effect from the date of its signing.

**Article 4.** The Chief of the Office of the Ministry, the Director of the Directorate of Fisheries, the Heads of the Departments: Planning, Science, Technology and Environment, Finance, Ministerial Inspection and the Heads of relevant agencies are responsible for implementing this Decision./.

***Recipients:***

- As Article 4;
- Minister (for reporting);
- Deputy Minister Le Quoc Doanh (for collaborating);
- People's Committees of provinces and centrally governed cities;
- Ministries: Planning and investment; Finance; Natural Resources and Environment; Diplomatic; National Defense;
- Official Gazette, the Ministry Website;
- Departments, Agencies, Ministerial Inspection, Offices under MARD;
- Archive: Documentary department, D-Fish (08b).

**SIGNED ON BEHALF OF MINISTER**

**DEPUTY MINISTER**

**Phung Duc Tien**

## Appendix

### **ACTION PLAN ON MARINE PLASTIC WASTE MANAGEMENT FOR FISHERIES SECTOR, 2020-2030 PERIOD**

*(Issued together with Decision No. 687/ QD-BNN-TCTS dated February 05, 2021 of the Ministry of Agriculture and Rural Development)*

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#### **I. OBJECTIVE**

##### **1. General objective**

To reduce plastic waste in fisheries production, gradually manage marine plastic waste from source to the sea, approach of a circular economy, develop a green economy; raise awareness and social responsibility of farming communities, fishermen, and plastic waste businesses, contributing to the successful implementation of the National Strategy on integrated solid waste management.

##### **2. Specific objective**

###### **a) Period 2021 - 2025:**

- Raise awareness of relevant stakeholders about reducing plastic waste in the fisheries sector:

+ From 70% or more of farmers, fishermen in coastal areas, concentrated farming areas and fisheries management officers at all levels are disseminated and trained on management and action to reduce plastic waste;

+ From 80% or more staff of marine protected area trained and communicated on management and action to reduce plastic waste.

- Reduce the use of single-used plastic products, replacing with special disposable plastic materials and tools:

+ From 10% or more of fishing ships and aquaculture businesses replacing some specialized materials and tools with environmentally friendly materials or reusable plastic;

+ 30% reduction in the use of foam buoys in marine farming;

+ From 30% or more of small-scale seafood processing establishments to replace 30% of single-used plastic bags with environmentally friendly materials or reusable plastic.

- Increase the rate of collection, sorting, reuse, and treatment of plastic waste from aquatic production activities:

+ From 50% or more of the fishing ships collect plastic waste (domestic and production waste) and bring it ashore, gather at the collection points, transfer to the collecting units;

+ From 70% or more of aquaculture businesses in aquaculture areas that gather and classify plastic waste and transfer to functional units;

+ From 50% or more of small aquaculture businesses that collect and classify plastic waste at their businesses before transferring them to functional units;

+ 100% of export processing establishments and 50% or more of small-scale processing establishments collect and classify plastic waste at source before transferring to functional units;

+ From 70% or more of fishing ports will organize the collection and classification of plastic waste, transfer to functional units;

- 100% of MPAs develop plans to monitor and organize the collection and classification of plastic waste and transfer to functional units for treatment.

- Developing a marine plastic waste database for the fisheries sector.

#### **b) Period 2026 - 2030**

- Raise awareness of stakeholders about reducing plastic waste in the fisheries sector:

+ 100% of farmers and fishermen in coastal areas, concentrated farming areas and fisheries management officers at all levels are communicated and trained in management and plastic waste reduction actions;

+ 100% of marine protected area management staffs are trained and communicated on management and action to reduce plastic waste.

- Reduce the use of single-used plastic products, replacing with special disposable plastic materials and tools:

+ From 20% or more of fishing ships and aquaculture businesses replacing some specialized materials and tools with environmentally friendly materials or reusable plastic;

+ 50% reduction in the use of foam buoys in marine farming;

+ From 80% or more of small-scale seafood processing establishments to replace 30% of single-used plastic bags with environmentally friendly materials or reusable plastic.

- Increase the rate of collection, sorting, reuse, and treatment of plastic waste from aquatic production activities:

+ 100% of the fishing ships collect plastic waste (domestic and production waste) and bring it ashore, gather at the collection points, transfer to the collecting units;

+ 100% of aquaculture businesses in aquaculture areas that gather and classify plastic waste and transfer to functional units

- + From 70% or more of small aquaculture businesses that collect and classify plastic waste at their businesses before transferring them to functional units;
- + From 80% or more small-scale processing establishments collect and classify plastic waste at source before transferring to functional units;
- + 100% fishing ports will organize the collection and classification of plastic waste, transfer to functional units;
- Developing a marine plastic waste database for the fisheries sector.

## **II. MAIN TASKS AND SOLUTIONS**

### **1. Raising awareness, knowledge and changing habits of the fishing community and relevant stakeholders**

#### a) Key contents

- Develop and organize the implementation of communication and education programs to raise awareness about plastic waste management for coastal communities, especially farmers, fishermen, and enterprises engaged in aquaculture production, which suitably fits with each type of profession;

- Organize capacity building training courses for fisheries specialized staffs from central to local levels, related associations, professional associations and social organizations on the legal provisions on solid waste management in general, plastic waste in particular;

- Develop documents for training classes, communication materials to ensure easy understanding, specific, suitable for each type of audience, profession; build, print leaflets, banners ... and deliver to people, and place those documents in public places of the community;

- Diversify forms of communication and integrating contents of plastic waste in environmental protection communication sessions in agricultural and fishery training courses;

- Promote the role of youth and women organizations, professional associations, etc. as pioneering agencies, regularly organizing the cleanups in marine, coastal, and concentrated aquaculture areas, fishing ports and marine conservation zones at the respective localities;

- Communicate and promote application of the 5R model (5R - Renew, Refuse, Reduce, Reuse, Recycle) in fisheries production activities and among coastal fishing communities;

- Replicate the model "Say no to plastic bags and single-used plastic products" in marine protected areas.

#### b) Timeline and implementation responsibilities

- Implementation timeline: 2021-2030

- Implementation responsibilities:

+ Directorate of Fisheries takes the lead in developing communication and training materials for management staffs; developing communication programs to raise awareness about ocean plastic waste management in the fisheries sector; collaborate with coastal provinces/cities to disseminate legal documents, action plans, awareness raising, capacity building to manage plastic waste for local officials, communities of fishermen, businesses, social organizations...;

+ The localities take the lead in organizing and compiling materials for communication and training sessions for officials at all levels, the fishing communities, businesses, social organizations and organizing clean-up campaigns as key activities;

+ MPAs take the lead in implementing the model "Say no to plastic bags and single-used plastic products".

## **2. Develop and complete state management documents on marine plastic waste management in the fisheries sector**

a) Key contents

- Review, amend and supplement legal documents on waste management in general and plastic waste in particular to ensure the implementation of the obligations committed under the International Conventions and treaties (Marpol, London, Basel, etc.);

- Review, amend and supplement technical regulations applicable to fishing vessels, aquaculture businesses and processing establishments to minimize the use of single-used specialized plastic materials and tools with low life cycle;

- Review, amend and supplement legal provisions on administrative sanctions for the act of discharging plastic waste for fisheries activities;

- Research and develop policies to support investment in scientific and technological researches for production of alternatives for plastic and nylon for use in the fisheries sector;

- Develop policies to support and encourage businesses, organizations and individuals in seafood production to increase the collection and use of green products, collection, reuse and treatment of plastic waste; preferential policies for island communes on taxes, prices, etc. to encourage the collection, reuse and treatment of plastic waste;

- Research and develop mechanisms and policies linking to the expanded producer responsibility of manufacturers in production field of special-use plastic materials and tools in aquaculture production;

- Develop policies to support fishing vessel owners, aquaculture households, small-scale processing establishments to replace materials, specialized tools, seafood

packaging on fishing vessels, in farming and processing aquatic products, etc. with environmentally friendly materials or using multi-used and compostable products;

- Develop ocean plastic waste database in the fisheries sector.

b) Timeline and implementation responsibilities

- Timeline: 2021-2030

- Implementation responsibilities:

- + The Ministry of Agriculture and Rural Development and the Directorate of Fisheries shall take the lead of responsibility, and coordinate with Ministries, departments, localities, international and domestic organizations, and relevant enterprises to: review, amend and supplement national technical regulations; research to build incentive mechanisms; develop policies to attach extended producer responsibility of producers in the fisheries sector and the production of specialized plastic materials and tools in the fisheries sector;

- + Local authorities, schools and research institutes actively review, amend and supplement local technical regulations; propose supporting, encouraging and preferential policies in the locality.

### **3. Reduction of plastic waste, collection, classification at source, reuse, recycling and step by step replacing specialized plastic materials in the fisheries sector**

a) Key contents

- Investigate and assess the status of use and emissions of plastic bags and single-used plastic products on fishing vessels, fishing ports and seafood processing establishments;

- Evaluate and study the possibility of eliminating all kinds of special-use materials and tools using single-used plastic, reducing the generation of plastic waste in fishing activities, aquaculture and processing of aquatic products;

- Develop and implement a program to control and manage plastic waste with fishing ships and fishing ports according to the Marpol Convention;

- Organize widely the commitment of owners of fishing vessels and aquaculture establishments not to discharge plastic waste into the sea and collect plastic waste to bring ashore for transfer to functional units.;

- Develop flexible and efficient models of socialization in plastic waste collection, classification and collection at fishing ports, aquaculture areas, processing facilities concentration areas suitable to conditions and practices of farmers and fishermen in each locality;

- Develop models of fishing fleets for fishing, aquaculture (on the sea and on land), small-scale processing facilities, community management model using specialized materials and tools, packaging products with eco-friendly products, or reusable plastic and collect, exchange and classify plastic waste in coastal areas,

in association with the criteria of a new countryside, building a civilized and clean fishing village beauty and develop trade village tourism services;

- Develop and implement a program to collect lost and discarded fishing gears at sea in conservation areas, protected areas of aquatic resources and other marine areas;

- Develop and implement a plan to monitor and organize the collection and classification of plastic waste in marine conservation zones;

- Socialize, promote public-private partnerships in recycling, reusing plastic waste, using environmentally friendly materials, promoting the strengthening of a circular economy, green growth;

- Pilot the formation of an expanded producer responsibility of manufacturers of specialized plastic materials and tools in the fisheries sector.

#### b) Timeline and implementation responsibilities

- Timeline: 2021-2030

- Implementation responsibilities:

- + The Directorate of Fisheries take the lead, and coordinate with localities in inspecting and supervising the development and implementation of the Action plan on Marine plastic debris management for fisheries sector, 2020-2030 period;

- + The Directorate of Fisheries takes the lead in developing programs: collecting lost and discarded fishing gears at sea; plastic waste control and management program for fishing vessels and fishing ports under the Marpol Convention; collecting lost and discarded fishing gears at sea in protected areas, aquatic resource protected areas and other sea areas; investigating and evaluating the current situation of using and discarding plastic bags, single-used plastic products on fishing vessels, fishing ports and seafood processing establishments, etc. Localities, groups and professional associations, businesses, schools, research institutes and international and non-governmental organizations are responsible for collaborating with the Directorate of Fisheries in implementing the programs;

- + The Directorate of Fisheries take the lead and coordinates with localities, associations, professional associations, businesses and international and non-governmental organizations to pilot the extended responsibility of producers. in the fisheries sector and of the manufacturer of specialized plastic materials and tools in the fisheries sector;

- + The localities coordinate with domestic and foreign organizations: get fishermen to involved in commitment to the collection of plastic waste to protect the environment, step by step replace specialized materials, develop collection agencies, garbage processing unites; expand models of collection, replacement, reuse and recycling; and model of community management, model of

socialization of waste collection, exchange and classification of plastic waste in coastal areas;

+ Marine protected areas develop plans to monitor and organize the collection and classification of plastic waste in marine conservation zones.

#### **4. Scientific research, application, development, and transfer of technologies related to marine plastic waste management in the fisheries sector**

##### a) Key contents

- Research on the replacement of materials and specialized tools used exclusively in the capture fishing, aquaculture farming and processing of aquatic products to reduce the use of single-used plastic or improve the life cycle of products, suitable for each sector with product type and natural characteristics;

- Research, apply compression, cutting, etc. technologies to reduce volume and easily store plastic waste on fishing ships;

- Strengthen the application and transfer of technologies and techniques in production and treatment to reduce marine plastic waste in the fisheries sector;

- Study the impact of microplastics on chains of aquaculture production;

- Investigate and evaluate for developing and updating the marine plastic waste management database for the fisheries sector.

##### b) Timeline and implementation responsibilities

- Timeline: 2021-2030

- Implementation responsibilities: The Directorate of Fisheries take the lead and coordinates with localities, associations, professional associations, businesses, schools, research institutes and international and non-government organizations.

#### **5. Strengthening international cooperation**

##### a) Key contents

- Strengthen research, in-depth exchange of experience on management, use and improvement of fishing gears and materials used exclusively in aquatic production with environmentally friendly and reusable materials to reduce generation of plastic waste;

- Share information, organize regional and international seminars on ocean plastic waste management;

- Coordinate with countries in the region, international and domestic organizations to control and manage marine plastic waste;

- Propose programs and projects to call for funding from developed countries, international technical and financial organizations for the reduction of plastic waste in the fisheries sector.

b) Timeline and implementation responsibilities

- Timeline: 2021-2030

- Implementation responsibilities: The Ministry of Agriculture and Rural Development and the Directorate of Fisheries are responsible for the implementation.

### **III. IMPLEMENTATION ARRANGEMENTS**

Based on the assigned objectives and tasks and the list of priority tasks in Action plan on Marine plastic debris management for fisheries sector, 2020-2030 period, agencies and organizations under the Ministry of Agriculture and Rural Development in collaboration with agencies under ministries, departments, localities, and relevant organizations develop detailed contents and cost estimates for priority tasks to submit to authorized authorities for approval. The estimates will play as a basis for determination and funding arrangement and for proposing and implementing activities in the Action Plan.

#### **1. Responsibilities of agencies and localities**

a) Directorate of Fisheries:

- Directorate of Fisheries is a standing agency, responsible for leading and coordinating with agencies and bodies under ministries, departments, domestic and international organizations to develop and organize the implementation of the Action plan on Marine plastic debris management for fisheries sector, 2020-2030 period;

- Direct and guide localities to implement the Action plan on Marine plastic debris management for fisheries sector, 2020-2030 period nationwide;

- Annually inspect, supervise and evaluate the implementation of the Action Plan, periodically report to the Minister on the results of the implementation of the Action Plan;

- Organize a review conference to review 5 years of implementation of the Action Plan in 2025 and a summary conference to summarize the implementation of the Action plan on Marine plastic debris management for fisheries sector, 2020-2030 period in 2030.

b) People's Committees of provinces and cities:

- Direct the Department of Agriculture and Rural Development to consult and develop local specific plans; regularly inspect and supervise the local implementation of the plan and annually report the results of the Plan implementation to the Ministry of Agriculture and Rural Development and the

Provincial People's Committee; propose amendments and supplements to relevant legal provisions and policies in the Plan implementation;

- Direct People's Committees at all levels, relevant agencies, social and professional organizations to regularly and widely communicate and educate for awareness raising and improving responsibility of the fishing communities in environment protection, set an example for good people with successful practices; building and developing models in the community and reviewing for replication;

- Direct People's Committees at all levels to build systems to collect, classify, transport, and treat plastic waste at fishing ports, fishing wharves, coastal residential areas, aquaculture, which are suitable with local conditions;

- Proactively allocate funding from the local budget, at the same time call for socialization and sponsorship from businesses and international organizations, well perform communication, develop collection and treatment system of plastic waste, build models and implement incentive and supportive mechanisms and policies issued by the locality.

c) Department of Agriculture and Rural Development at provinces and centrally-affiliated cities:

- Develop action plan for plastic waste management in the fisheries sector, in which consult local budget sources to implement the Action Plan, submit to the People's Committees of provinces and cities for approval of funding;

- Consult for the Provincial People's Committee: implement communication and trainings to raise awareness about marine plastic waste management in fisheries production activities; pilot and develop models of plastic waste management in fisheries production; promote public-private partnerships in reducing plastic waste locally; inspect and supervise the environmental protection in general and the management of plastic waste in aquaculture production in particular; annually report on the results of the implementation of the Action Plan to the Ministry of Agriculture and Rural Development and the People's Committees of provinces.

d) Department of Planning, Department of Finance:

Lead the appraisal of projects and topics related to the implementation of the Action plan on Marine plastic debris management for fisheries sector, 2020-2030 period and consult the allocation of funds for the implementation of Action Plan.

đ) Department of Science, Technology and Environment:

Direct the proposal of research projects and topics to serve the management, research, and transfer of advanced technologies in the capture fishing, aquaculture farming, seafood processing and reduction of plastic waste in the fisheries sector.

e) Fisheries Research Institutes and Schools:

Direct the development and implementation of scientific research projects, projects; research, improve capture fishing, aquaculture farming, and seafood processing technologies to reduce plastic waste in the fisheries sector; collaborate with functional units of the Ministry of Agriculture and Rural Development to expand relations with domestic and foreign partners to bring advanced technologies into seafood production to reduce plastic waste.

g) Marine Protected Areas:

Proactively construct and implement activities of plastic waste monitoring, allocating sufficient human resources for the collection, classification and treatment of plastic waste in marine protected areas. Integrate plastic waste monitoring into the regular activities of the National Park and marine protected areas.

h) Fisheries Associations, Groups and Unions:

Strengthen communication and awareness raising for members of the Fisheries Groups, Association, and Unions about the adverse impacts of plastic waste and collaborate with local authorities to participate in specific activities to reduce plastic waste.

## **2. Funding for implementation**

- The State budget shall be allocated from the annual cost estimates of recurrent expenditures of the Ministry and localities, and other relevant projects and projects in accordance with the law on state budget;

- Contributions and sponsorships from domestic and international organizations, individuals, and businesses.

## Appendix

### LIST OF PROJECTS, PROGRAMS, TASKS OF THE ACTION PLAN ON MARINE PLASTIC DEBRIS MANAGEMENT FOR FISHERIES SECTOR, 2020-2030 PERIOD

*(Attached to Decision No.687 / QD-BNN-TCTS dated February 05, 2021 of the Minister of Agriculture and Rural Development)*

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
<b>I</b>	<b>Raising awareness, knowledge and changing habits of the fishing community and relevant stakeholders</b>				
1	Communication and education programs to raise awareness about plastic waste management to coastal communities, especially with farmers, fishermen, and aquaculture enterprises.				
1.1	Developing a communication and education program to raise awareness of plastic waste management to coastal communities, especially farmers, fishermen, and aquaculture enterprises.	Directorate of Fisheries; Localities	International organizations, NGOs; Associations and professional associations	2021-2022	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
1.2	Implementing communication and education programs to raise awareness of plastic waste management to coastal communities, especially farmers, fishermen, and aquaculture enterprises.	Directorate of Fisheries; Localities	International organizations, NGOs; Associations and professional associations; Businesses	2021-2030 (annually)	Collaborating with international organizations
2	Organizing capacity building training for fisheries specialized staffs from central to local levels, related associations, professional associations, social organizations, fishermen, aquaculture and processing farmers (3 classes/ year)	Directorate of Fisheries	International organizations, NGOs; Associations and professional associations; Businesses	2021-2025 (annually)	Collaborating with international organizations
3	Developing and printing documents, manuals for training classes, communication materials	Directorate of Fisheries	Localities	2021-2025 (annually)	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
4	Public private partnership forum in marine plastic waste management in the fisheries sector (aimed to support investment initiatives, sharing experiences in marine plastic waste management through the organization of conferences, seminars, forums to share experiences on corporate social responsibility)	Directorate of Fisheries	Localities and enterprises; International organizations, NGOs; Associations and professional associations	2021-2030	Annual task
<b>II</b>	<b>Develop and complete state management documents on marine plastic waste management in the fisheries sector</b>				
5	Review, amend and supplement state management documents	Directorate of Fisheries	Localities; national and international organizations	2021-2030	Collaborating with international organizations
5.1	Legal documents on waste management in general and plastic waste in particular ensure the implementation of obligations committed under international conventions (Marpol, London, Basel ...)	Directorate of Fisheries	Localities; International organizations, non-profit organizations; universities, research institutes	2021-2030	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
5.2	Technical regulations applicable to fishing vessels, aquaculture establishments and traditional processing establishments to reduce the use of single-used, short life-span plastic materials and tools	Directorate of Fisheries; localities	Localities; International organizations, NGOs; universities, research institutes, and enterprises	2021-2023	Collaborating with international organizations
5.3	The legal regulations on administrative sanctions for plastic waste discharge for fisheries activities	Directorate of Fisheries	International organizations, non-profit organizations; universities, research institutes	2021-2030	Collaborating with international organizations
6	Research and policy development				
6.1	Support investment in scientific and technological research for alternative materials production for use in the fisheries sector	Directorate of Fisheries	Localities; International organizations, NGOs; universities, research institutes and enterprises	2021-2030	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
6.2	Policies to support and encourage businesses, organizations and individuals in aquatic production to increase the collection and use of green products, exchange, reuse and treatment of plastic waste; preferential policies for island communes in terms of taxes, prices ...	Directorate of Fisheries	Donors; International organizations; universities, research institutes	2021-2030	Collaborating with international organizations
6.3	Mechanisms and policies associated with extended producer responsibilities of manufacturers of specialized plastic materials and tools in aquaculture production	Directorate of Fisheries	Localities; International organizations, NGOs; universities, research institutes and enterprises	2021-2030	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
6.4	Support policy for fishing vessel owners, aquaculture households, processing establishments to replace materials, specialized tools, seafood packaging on fishing vessels, in aquaculture, seafood processing, etc. with environmentally friendly materials or reusable, compostable materials	Directorate of Fisheries	Localities; International organizations, NGOs; universities, research institutes and enterprises	2021-2030	Collaborating with international organizations
7	Developing a plastic waste database for fisheries production activities in coastal and marine areas as a basis for orienting sustainable fisheries development and for exchanging information and data with other countries. regionally and internationally	Directorate of Fisheries, Localities	Universities, research institutes; International organizations, NGOs	2021-2023	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
8	Investigating, evaluating for developing and updating the marine plastic waste management database in the fisheries sector	Directorate of Fisheries, Localities	Universities, research institutes; International organizations, NGOs	2022-2030 (annual task)	Collaborating with international organizations
<b>III</b>	<b>Reduce plastic waste, collect, sort at source, reuse, recycle and gradually replace using plastic in the fisheries industry</b>				
9	Investigate and assess the current status of use and discarding of plastic bags and single-used plastic products on fishing vessels, fishing ports and seafood processing establishments; Investigating and surveying plastic waste in marine fisheries activities	Directorate of Fisheries	Localities; International organizations, NGOs; universities, research institutes;	2021-2030	Collaborating with international organizations
10	Evaluate and study the possibility of eliminating special-use materials and tools, single-used plastic, reducing the generation of plastic waste in the fishing, farming and processing of aquatic products.	Directorate of Fisheries	Localities; International organizations, NGOs; universities, research institutes and enterprises	2022-2025	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
11	Plastic waste management program with fishing fleets and fishing ports according to the Marpol Convention				
11.1	Developing a program to control and manage plastic waste with fishing fleets and fishing ports according to Marpol convention	Directorate of Fisheries	Localities; International organizations, NGOs (WWF, IUCN.); universities, research institutes	2021-2030	Collaborating with international organizations
11.2	Implementing a plastic waste control and management program with fishing fleets and fishing ports according to the Marpol Convention	Directorate of Fisheries	Localities; International organizations, NGOs (WWF, IUCN.); universities, research institutes	2021-2030 (annually)	Collaborating with international organizations
12	Develop, pilot and replicate models				

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
12.1	Model of socialization to act as a flexible and efficient hub for collection, classification and exchange of plastic waste at fishing ports, aquaculture areas, concentrated areas of traditional processing establishments, in accordance with conditions and customs of farmers and fishermen in each locality	Localities	Directorate of Fisheries; International organizations, NGOs; universities, research institutes	2021-2030	Collaborating with international organizations
12.2	Model of concentration place for gathering, classifying and pressing plastic waste at sea, fishing ships, marine aquaculture households, collecting and transporting plastic waste onshore for treatment	Localities	Directorate of Fisheries; International organizations, NGOs (GreenHub, MCD...); universities, research institutes	2021-2022	Collaborating with international organizations
12.3	Pilot model of community management using environmentally friendly specialized materials and tools in fisheries activities	Localities	National and international organizations, NGOs; universities, research institutes	2021-2030	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
12.4	Establish an organization with extended producer responsibilities of manufacturers in specialized plastic materials and tools in the fisheries sector.	Directorate of Fisheries	International organizations, NGOs;	2021-2030	Collaborating with international organizations
12.5	Model of eco-friendly floating materials instead of foam buoys in marine farming	Localities	Directorate of Fisheries; enterprises	2021-2025	Collaborating with international organizations
13	Develop and implement program to collect lost and discarded fishing gear at sea				
13.1	Develop a program to collect lost and discarded fishing gears at sea	Localities; Board of Management of Marine Protected Area	Directorate of Fisheries; international organizations, NGOs	2021-2022	Collaborating with international organizations
13.2	Implement the program to collect lost and discarded fishing gears at sea in protected areas, protected areas of aquatic resources	Localities; Board of Management of Marine Protected Area	Directorate of Fisheries; international organizations, NGOs	2021-2030 (annually)	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
13.3	Implement the program to collect lost and discarded fishing gear at sea in other marine areas.	Localities	Directorate of Fisheries; international organizations, NGOs;	2026-2030 (annually)	Collaborating with international organizations
14	Develop and implement a plan to monitor and organize the collection and classification of plastic waste in marine protected areas	Board of Management of Marine Protected Area	Directorate of Fisheries; Localities; international organizations, NGO (IUCN, GreenHub...)	2021-2030 (annually)	Collaborating with international organizations
IV	<b>Scientific research, application, development and transfer of technologies related to marine plastic waste management in the fisheries sector</b>				
15	Scientific research, technology application, development, and transfer				

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
15.1	The replacement of special-use materials and tools in capture fishing, culture farming (on shore and at sea), and seafood processing to reduce the use of single-used plastic or improve life cycle of plastic products, in line with each sector, with product types, natural characteristics of products	Localities; enterprises	Directorate of Fisheries; Donors; universities, research institutes	2021-2030	Collaborating with international organizations
15.2	Compression, cutting technology, etc. to reduce volume and easily store plastic waste on fishing boats	Localities; enterprises	Directorate of Fisheries; Donors; universities, research institutes	2021-2025	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
15.3	Promote the application and transfer of technologies and techniques in production, consumption, treatment and reduction of marine plastic waste in the fisheries sector	Directorate of Fisheries; enterprises;  donors	National and international organizations; universities, research institutes	2021-2025	Collaborating with international organizations
15.4	Research on effects of microplastics on chains of aquaculture production	Directorate of Fisheries	Donors; Enterprises; universities, research institutes; enterprises	2025-2030	Collaborating with international organizations
<b>V</b>	<b>Strengthen international cooperation</b>				
16	Strengthen research, in-depth exchange of experiences on management, use and improvement of fishing gears and materials used in fishery production with environmentally friendly and reusable materials to minimize generated plastic waste	Directorate of Fisheries	Localities; National and international organizations; Universities, research institutes;	2021-2030 (annually)	Collaborating with international organizations

No.	List of projects, programs, and tasks	Leading agencies	Collaborating agencies	Implementation period	Notes
17	Enhance knowledge and management of marine waste in the ASEAN fisheries sector (fishing and aquaculture)				
17.1	Organize workshops to share information and best practices on marine waste management in the fisheries sector in ASEAN countries (fishing and aquaculture)	Directorate of Fisheries	ASEAN	2021-2030	Collaborating with international organizations
17.2	Develop ASEAN guidelines on marine waste management in the fisheries sector in ASEAN countries (fishing and aquaculture)	Directorate of Fisheries; ASEAN	International organizations	2022-2025	Collaborating with international organizations
17.3	Implement ASEAN guidelines on marine waste management in the fisheries sector in ASEAN countries (fishing and aquaculture)	Directorate of Fisheries	Localities	2021-2030	Collaborating with international organizations