



PROJECT DOCUMENT

ACHIEVEMENTS FOR YEAR 2017-2019

Project ID: 201706005			
Program Category	ASEAN-SEAFDEC ASSP and FCG Mechanism		
Project Title	Enhancing Sustainable Utilization and Management Scheme of Tropical Anguillid Eel Resources in Southeast Asia		
Program Strategy No.	I	Total Duration	August 2017 - July 2019
Lead Department	Secretariat (SEC)	Lead Country	None
Donor/Sponsor	Japanese ASEAN Integration Fund (JAIF)	Total Donor Budget	USD 842,852.80
Project Partner	None	Budget for August 2018 – July 2019	USD 842,852.80
Project Leader	Assistant Project Manager for the JTF isao koya /SEC	Project Participating Country(ies)	All Member Countries

PART I: OVERALL PROJECT DESCRIPTION

1. Brief Project Description:

Tropical anguillid eels are drawing more attention to compensate the shortage of supply of eel seeds for aquaculture (eel farming) in recent years. However, there are no historical record on the status of tropical anguillid eel resources, catch statistics especially on juveniles for seeds, and eel farming production in Southeast Asia. This project will strengthen the statistics data collection system and clarify the basic resource condition of tropical anguillid eels. Also, it is envisaged to improve survival rate of juvenile eels under aquaculture in ASEAN Member States (AMSs) by improving eel aquaculture technologies. In addition, it is needed that tropical anguillid eel resources should be properly conserved and managed to prevent the overexploitation and listing on CITES appendices in consequence.

Overall objective of this project is to strengthen and consolidate eel resource management framework for sustainable provision of eel products and eel capture fisheries/eel farming in AMS. Overall goal of this project is to promote the sustainable eel fishery in AMS. The project is also expected to contribute to the ASEAN Economic Community Blueprint 2025: specifically, “Increase of fishery/aquaculture production (C.5. 57. i)” and “Enable sustainable production (C.5. 57. iii)”. The project is going to be implemented by Southeast Asian Fisheries Development Center (SEAFDEC) in collaboration with all ASEAN Member States for two years. The proposed funding support is from the “Japan ASEAN Integration Fund” (JAIF) through the ASEAN Secretariat and ASEAN body namely the ASEAN Sectoral Working.

2. Background and Justification:

2.1 Problem Analysis

Eel farming is reliant on wild-caught anguillid eels such as glass eel, elver and yellow eel. With the rapid decline of temperate anguillid eel juveniles such as Japanese eel (*Anguilla japonica*), European eel (*A. anguilla*) and American eel (*A. rostrata*) in recent years, tropical anguillid eels are drawing more attention to compensate the shortage of supply of eel seeds for aquaculture. Tropical anguillid

eels have so much potential for commercial freshwater aquaculture given the appropriate technology and resource management practices to ensure their sustainable use.

SEAFDEC organized an international regional workshop on “Enhancement of sustainability of catadromous eel resources in Southeast Asia” on 27-29 April 2016, to clarify technical issues and confirmed the necessity for sustainable utilization of eel resources. The results of the workshop indicated that there were not enough statistical records among AMS related to the status of exploited tropical anguillid eel resources (fisheries) and eel aquaculture production, including effective measures to sustainably manage the eel resources. It is essential that tropical anguillid eel resources should be properly conserved and managed to prevent its overexploitation and listing in the CITES appendices.

2.2 Regionality

The demands of anguillid eel products are expected to expand significantly in Japan, China and South Korea as well as AMS. In addition, the main producing areas of tropical anguillid eels are in AMS. Hence, the appropriate utilization of anguillid eel resources is required to ensure food and livelihood security of the people that depend on the resources.

2.3 Participation

AMS (Government officers involve in capture fisheries and aquaculture departments; fisheries bureaus which manage the eel resources and develop the national plan on eel industry; scientists/researchers of the fisheries research agencies/institutes and universities; eel fishers/farmers.)

2.4 Beneficiaries

- Direct/immediate beneficiaries are eel fishers/farmers and government officers in AMS.
- Indirect beneficiaries are both the eel producing and consuming countries.
- SEAFDEC secretariat, Inland Fishery Resources Development and Management Department (IFRDMD), and Aquaculture Department (AQD).

2.5 Project History

A Regional Workshop on ‘Enhancement of sustainability of eel resources in South Asia was initially organized on 27-29 April 2016 in SEAFDEC-Thailand. The workshop resulted in the identification of technical issues and problems related to the sustainable utilization of eel resources, which include: i) lack of statistical records on the status of exploited tropical anguillid eel resources; ii) lack of production data on eel aquaculture; and iii) lack of effective measures to manage eel resources among AMS.

3. Project Overall Objectives, Outcomes, Outputs, Indicators and Activities:

3.1 Objectives, Outcome and Output of the Project

Objective	Outputs	Activities	Indicator
Resource management framework* for sustainable anguillid eel fisheries in AMS is consolidated. *“Framework” here is a scheme consisting of experts, technologies/methodologies and rules essential for sustainable eel fisheries/aquaculture.	Output 1: The statistical data collection system is strengthened in AMS to better understand the present status and past/future trends on tropical anguillid eels at each species and	Activity 1.1: Strengthening the statistical information collection system on juvenile anguillid eel fishery with indices of fishing efforts.	Indicator 1: Number of qualified staff for statistical data collection has increased in each AMS
		Activity 1.2: Strengthening the statistical information collection system on yellow and silver eel fishery with indices of fishing efforts	

Objective	Outputs	Activities	Indicator
	stage.	<p>Activity 1.3: Strengthening the statistical information collection system on anguillid eel farming production at each species.</p>	
		<p>Activity 1.4: Developing the decisive method of species identification of juvenile anguillid eels with latest DNA fingerprint techniques.</p>	
	<p>Output 2: Tropical anguillid eel aquaculture technologies are improved in AMS.</p>	<p>Activity 2.1: To collect the data of survival rate of juvenile anguillid eels (from glass eel to elver stage) in the eel farms in various places in AMS, with the additional information of species, source of seeds, handling methods, transportation methods, water condition, feed for initial seedling, and the other possible causes/reasons that might affect the survival of juvenile anguillid eels.</p>	<p>Indicator 1: Main factors that drop the survival rate of juvenile eels are identified and consolidated, Indicator 2: Improved technologies for higher survival of eel juveniles are identified. Indicator 3: A manual is developed to propose improved eel farming technologies. Indicator 4: Staff in charge of eel aquaculture of all AMS understand the technologies to improve survival rate of juvenile anguillid eels.</p>
		<p>Activity 2.2: To identify critical factors those contribute to high mortality rates of eel juveniles (glass eels) in captive rearing conditions (eel farm).</p>	
		<p>Activity 2.3: To develop strategies (or protocols) for improved survival of eel juveniles under captive rearing conditions.</p>	
		<p>Activity 2.4: To publish a manual on improved protocols for farming of eels, including handling and transport from collection grounds to the farm for use of eel farmers, government extension workers and other stakeholders.</p>	
	<p>Output 3: Knowledge on the methodologies for collecting statistical information and tropical anguillid eel resource</p>	<p>Activity 3.1: To summarize the results of the trend of tropical anguillid eel resources at each species and stage obtained through Activities 1 and 2 then evaluate the present</p>	

Objective	Outputs	Activities	Indicator
	management is enhanced at the central and regional level.	situation and trend of anguillid eel resources in AMS. Activity 3.2: To conduct three different meetings, which include: 1) Two Regional Workshops 2) Two Training for Trainers courses in Japan 3) Two Assessment Committee meetings held in Bangkok, Thailand	

3.2 Overall Scope/Description of Project

Activity	Description
Activity 1 Sub-activity 1.1: Strengthening the statistical information collection system on juvenile anguillid eel fishery with indices of fishing efforts.	1.1.1: To study and analyze the methods and processes for collecting statistical information on juvenile anguillid eel fishery with indices of fishing efforts. 1.1.2: To recommend appropriate statistical collection methods and provide list of important contents/items of the catch statistics of juvenile anguillid eels (including the indices of fishing effort) by major fishing grounds and/or countries that have (or have potential of starting) juvenile anguillid eel fishery. 1.1.3: To support the national/local governments and/or fishers' committees to strengthen the system for statistical collection with fishing effort indices at each country/fishing ground of juvenile anguillid eels.
Sub-activity 1.2: Strengthening the statistical information collection system on yellow and silver eel fishery with indices of fishing efforts.	1.2.1: To study and analyze the methods and processes for collecting statistical information on yellow and silver eel fishery with indices of fishing efforts. 1.2.2: To recommend appropriate statistical collection methods and provide list of important contents/items of the catch statistics of yellow/silver eel (including the indices of fishing effort) by major fishing grounds and/or countries that have (or have potential of starting) anguillid eel fishery. 1.2.3: To support the national/local governments and/or fishers' committees to strengthen the system for statistical collection with fishing effort indices at each country/fishing ground of yellow/silver eels.
Sub-activity 1.3: Strengthening the statistical information collection system on anguillid eel farming production at each species.	1.3.1: To study and analyze the methods and processes for collecting statistical information on eel farming production. 1.3.2: To provide recommendations to the national/local governments and/or eel farmers' committees on the establishment of statistical collection system for eel production from eel farming at each species. • To investigate whether statistics of eel farming production have been existed or not at each country.

Activity	Description
Sub-activity 1.4: Developing the decisive method of species identification of juvenile anguillid eels with latest DNA fingerprint techniques.	1.4.1: To review the studies on species identification of tropical anguillid eels in Southeast Asia 1.4.2: To collect juvenile anguillid eels for analyses using DNA technology. 1.4.3: To estimate the actual quantities and trends of eel seeds catch according to species using the species composition ratio applied into the catch statistics of eel seeds.
Activity 2 Aquaculture techniques to improve the survival rate of juvenile tropical anguillid eel will be developed and disseminated in AMS.	2.1: To collect the data of survival rate of juvenile anguillid eels (from glass eel to elver stage) in the eel farms in various places in AMS, with the additional information of species, source of seeds, handling methods, transportation methods, water condition, feed for initial seedling, and the other possible causes/reasons that might affect the survival of juvenile anguillid eels. 2.2: To identify critical factors those contribute to high mortality rates of eel juveniles (glass eels) in captive rearing conditions (eel farm). 2.3: To develop strategies (or protocols) for improved survival of eel juveniles under captive rearing conditions. 2.4: To publish a manual on improved protocols for farming of eels, including handling and transport from collection grounds to the farm for use of eel farmers, government extension workers and other stakeholders.
Activity 3 The methodology for collecting statistical information and measures for resource management of tropical anguillid eel will be enhanced. For this purpose, workshops (statistical, regional resources management), Regional meetings, Assessment Committee meeting are conducted.	3.1: To summarize the results of the trend of tropical anguillid eel resources at each species and stage obtained through Activities 1 and 2 then evaluate the present situation and trend of anguillid eel resources in AMS. 3.2: To conduct three different meetings, which include: i. Two Regional Workshops: one regional statistics workshop, and another one on regional resource management workshop. The aims are in order to disseminate the methodologies on statistical information gathering system on anguillid eels for the official staffs from all AMSs who shall supervise the eel collectors and eel farmers. The workshops will be held in Bangkok, Thailand; ii. Two Training for Trainers courses in Japan: one on DNA analysis for IFRDMD and the other on aquaculture for AQD. And Three Regional Meetings held in Viet Nam, Philippines and Indonesia, respectively. The aims are to share the information and knowledge obtained through the activities among all AMSs, Japan and related organizations; and iii. Two Assessment Committee meetings held in Bangkok, Thailand to confirm and evaluate the progress of the project activities.

3.3 Activity, Sub-activity and Proposed Budget for 2017 (August)-2019 (July)

(Unit: USD)

Activity	Y1 2017(August)-2018(July)	Y2 2018(August)-2019(July)
Activity 1:	246,241.91	60,164.09
Activity 2:	10,151.92	118,616.08
Activity 3:	100,856.32	182,777.68
Common expense	36,000	36,000
Contingency	52,044	

PART II: ACHIEVEMENT OF 2019 PROJECT IMPLEMENTATION

1. Achievements of the Project Implementation for the present year <2018(August 2017-July2019)>:

The achievements of the project implementation from August 2018 to July 2019 are as follows.

1. Activity 1 (Statistical survey)

- The statistical survey (catch and aquaculture statistics survey) were conducted in the six countries (Cambodia, Indonesia, Myanmar, Philippines, Thailand, Vietnam) of the ten AMSs where anguillid eel fishery is existing for grasping the utilization situation of anguillid eel resources eel in the ASEAN region.
- The areas where anguillid eels are caught in six countries were selected and field statistics survey was conducted by interview to consolidator and farmers. (Baseline survey)
Also catch data and CPUE every month from eel consolidators who collected anguillid eels in Indonesia, Philippines and Myanmar Viet Nam were collected. (regular survey). The trend of status on tropical anguillid resources was analyzed .
- DNA data of anguillid eel from Indonesia, Myanmar, Philippines, Viet Nam was analyzed to determine population genetic structure.

2. Activity 2 (Survival rate survey)

The survival rate survey has been conducted by cultivating the glass eel caught on Luzon Island in Philippines. The influence of food type on survival rate was examined.

- Nursery rearing of glass eels collected from Aparri in Luzon Island in Philippine at different stocking densities.
- Feeding trials using different types of natural food and formulated diet for the nursery rearing of glass eels

An interview survey for collecting information on improvement survival rate of juvenile eel was conducted in the Philippines, Viet Nam. Technical methods to reduce mortality rate of glass eel were analyzed and compiled the information.

3. Activity 3(Enhancing resources management of tropical anguillid eels)

As activities related to Activity 3, workshops and regional meetings were held as follows.

1)Project planning meeting

This meeting was held on 4th August 2017 in Bangkok Thailand to finalize tasks with institutions involved in the project implementation. The purpose of this meeting is to confirm the project activities and design the detailed plans at the start of the project.

2) The progress meeting of implementation activities on the project

This meeting was held on 11th December 2017 in Palembang, Indonesia. The meeting was conducted to determine the progress of the project activities, evaluate the results of the various activities thus far, compile and discuss plans for the future.

3) The Assessment Committee Meeting

This meeting was held on 19th December 2017 in Bangkok Thailand. The purpose of this meeting was arranged for the assessment committee members and participants of each ASEAN country to evaluate whether the research methods of the project are appropriate and effective in achieving the project purpose.

4) The First Regional Meeting

The meeting was held on 25th January 2018 in Bangkok, Thailand. The purpose of the meeting was to present the results obtained through the activities of the project thus far, and to summarize the management policies for tropical anguillid eels that each country was implementing and planning.

5) International Technical Workshop on tropical anguillid eel in southeast Asia

This meeting was held on 7th -8th June 2018 in Bangkok, Thailand. The purpose of this meeting was

to create the information document “Status and resources management of tropical anguillid eels in Southeast Asia” for posting on website of the CITES 30th Meeting of the Animals Committee based on the findings obtained through the activities of the project thus far.

6) The Second Regional Meeting

This meeting was held on 18th -19th October 2018 in Bangkok, Thailand. The objectives of this meeting were to: 1) share the information obtained through the project activities and the information from the ASEAN countries, and 2) formulate a common policy guideline among ASEAN Member States to conserve and manage tropical anguillid eels.

7) Workshop on Statistics/Aquaculture of tropical anguillid eel in southeast Asia

This meeting was held on 23rd and 24th -25th April 2019 in Manila, Philippines. The purpose of this meeting was: to present the various statistical information obtained from the activities of the project, as well as the results of refinement of techniques to improve the survival rate of glass eels.

8) The Third Regional Meeting

This meeting was held on 22nd -23rd July 2019 in Bangkok Thailand. The purpose of this meeting was to present and evaluate the final results of the activities conducted in the project and to finalize the draft of the project report. The final report will be submitted to the ASEAN Secretariat and will also be posted on the SEAFDEC website and published.

2. Information of Present Year Activity including Involved Stakeholders (August 2017-July 2019):

List of Actual Sub-activity	Type of activity*	Number of Participants			Spent Budget (USD)
		MCs	SEAFDEC	Others	
Activity 1	III	159(38)	230(128)	65(19)	60,164.09
Activity 2	III	15(4)	17(9)	6(2)	118,616.08
Activity 3	IV	111(30)	125(66)	53(14)	182,777.68

Remarks) Regarding the number of participants, please indicate total number of participants (and number of female participants within), such as 20 (10).

3. Achievements and Expected Outcome/Outputs of the Activity:

Planned activity	Expected outcome/output	Achievements
Activity 1	The statistical data collection system is strengthened in AMS to better understand the present status and past/future trends on tropical anguillid eels at each species and stage.	Catch and aquaculture production data were collected by statistical survey form six countries where eel fishery is existing. These data were compiled and analyzed to clarify status of utilization on tropical Anguillid eels in Southeast Asia.
Activity 2	Tropical anguillid eel aquaculture technologies are improved in AMS.	Survey on the survival rate of glass eel in aquaculture have been carried out and analyzed. Aquaculture techniques to improve survival rate of juvenile anguillid eel were developed.
Activity 3	Knowledge on the methodologies for collecting statistical information and tropical Anguillid eel resource management is enhanced at the central and regional level.	To summarize the result of current status and trends of tropical anguillid eel resources through statistical survey and survival rate survey. The project report including all result obtained through this project activity was compiled and published.

4. List of Completed Publications and Others (e.g. technical report, VDO, presentation file, etc.):

List of completed publications for the year 2019	Type of media	Attached e-file
• Nursery Culture of Tropical Anguillid Eels	Publication	https://repository.seafdec.org/handle/10862/48/recent-submissions
• Report on “Enhancing sustainable utilization and management scheme of tropical Anguillid eel resources in Southeast Asia”	Publication	http://repository.seafdec.org/handle/20.500.12066/5488

5. Evaluation from Participants of Member Countries for WS and Training Course (if available):

Planned activity	Evaluation/ Views from Participants
Activity 1	Not available because there is no training course activity.
Activity 2	Not available because there is no training course activity.
Activity 3	Not available because there is no training course activity.

6. Major impacts/issues:

<p>1. The statistical survey (catch statistics, aquaculture production statistics) for six countries where anguillid eel fishery is existing was conducted and developed data collection methods of Anguillid eel resources. The catch of tropical anguillid eel species in the target countries can easily collect data on the area where the eel consolidator concentrates, but it is difficult in the area where the eel consolidators are extensive. In the future, it will be necessary to incorporate a system constructed in this project for collecting tropical eel catches into the catch statistics surveys conducted by government in AMS.</p> <p>2. The results of the two-year project activities have been compiled as a final report. This report was submitted to the ASEAN Secretariat, distributed to AMS, and posted on the SEAFDEC website. The creation of this report is highly valued because anyone can get the results of this project.</p>

PART III: ACTIVITIES IN OVERALL PROJECT DURATION

1. Abstract of achievement in the overall project duration:

<p>The achievements for each output in this project are as follows:</p> <p>Output: 1 The statistical data collection system is strengthened in AMS to better understand the present status and past / future trends on tropical anguillid eels at each species and stage.</p> <ul style="list-style-type: none"> • A survey (baseline survey) to collect the catch / aquaculture production of tropical anguillid eel in the Southeast Asia countries where eel fishery is existing was conducted, and the utilization status of anguillid eel resources in each country was clarified. • Monthly catch data was collected from Indonesia, Myanmar, Philippines and Viet Nam sites (regular survey) to clarify the status and trends of tropical anguillid eel stocks. • The scheme for collecting statistical data of tropical anguillid eel species in Southeast Asia was strengthened.

Output: 2

Tropical anguillid eel aquaculture technologies are improved in AMS.

- Several techniques have been developed to improve the survival rate of juvenile tropical anguillid eels.
- Manuals on method technology to improve survival rate of juvenile tropical anguillid eels were prepared and disseminated to Southeast Asian countries.

Output: 3

Knowledge on the methodologies for collecting statistical information and tropical anguillid eel resource management is enhanced at the central and regional level.

- ‘Policy guidelines’ have been formulated to propose effective management measure for sustainable utilization of tropical eels.
- The schemes to collect catch / aquaculture production data and collection method to Southeast Asian countries was strengthened.
- Aquaculture technologies have been developed to improve the survival rate of juvenile eel, and these technologies have been compiled as aquaculture technique manual.
- A report was prepared with information on the eel fishery, analysis results, and developed techniques thought activities of this project. The report was distributed to countries in Southeast Asia and posted on the SEAFDEC website.

2. Implemented activities in the overall project duration:

Proposed Activity	Description of Proposed Activity
Activity 1	<ul style="list-style-type: none"> - Implementation of statistical survey to grasp utilization status of anguillid eel resources in AMSs. - To analyze trend and status of anguillid eel resources from catch data including fishing effort information. - Implementation of DNA analysis to clarify the population genetic structure of anguillid eel species.
Activity 2	<ul style="list-style-type: none"> - Implement survival rate survey to find method of aquaculture techniques for improvement survival rate of juvenile anguillid eel. - The Aquaculture technique manual for improvement survival rate was compiled.
Activity 3	<ul style="list-style-type: none"> - To hold "Regional Meeting" to enhance resources management scheme of tropical anguillid eel in South east Asia. - To hold "Resources management workshop" to formulate resource management measure of tropical anguillid eel in AMSs. - To hold "Statistics /aquaculture workshop" to analyze collecting statistical data and aquaculture technique of tropical anguillid eel in AMSs.

3. Achievement and Outcomes/Outputs of Activity in overall project duration:

Proposed Activity	Achievement and Outcomes/Outputs of Activity
Activity 1	<ul style="list-style-type: none"> - The status of utilization (catch, aquaculture) of anguillid eel resources in the ASEAN region is grasped by statistical survey. - To clarify trend and status of anguillid eel resources from catch data including fishing effort information. - To clarify population genetic structure of anguillid eel species at survey site in South Asia region by DNA analysis.
Activity 2	<ul style="list-style-type: none"> - Main factors that reduce the survival rate of juvenile eels are identified.

	- The technique to improve survival of juveniles anguillid eels were developed.
Activity 3	- Knowledge on tropical anguillid eel resource management was enhanced in AMSs. - Anguillid eel resource management policy in Southeast Asia for sustainable utilization was formulated.

4. Evaluation and major impacts/Issues in the overall project duration:

Results	Indicators		Reasons for deviations
	Planned	Achieved	
Objective: Resource management framework for sustainable anguillid eel fisheries in AMS is consolidated.	1.Number of qualified experts has increased in each AMS; 2. Manuals on technologies/methodologies for sustainable eel fisheries/aquaculture are regionally available; 3. Regional rules on sustainable eel fisheries/aquaculture are compiled in a report	1. Number of experts has increased in AMS through this project activities. (Number of experts in charge of tropical anguillid eel, Cambodia 3 persons, Indonesia 3 persons, Myanmar 3 persons, Philippines 5 persons, Viet Nam member of Directorate fisheries) 2.Manuals and report on technologies/methodologies for sustainable eel fisheries/aquaculture created. 3. Regional rules (Policy guideline for conservation and management of tropical anguillid eel resources in southeast Asia) was formulated.	
Output:1 The statistical data collection system is strengthened in AMS to better understand the present status and past/future trends on tropical anguillid eels at each species and stage.	Number of qualified staff for the statistical data collection has increased in each AMS.	The persons in charge of collecting statistical data on tropical anguillid eels in each AMS were decided.	Although the number of staff in the statistical survey was the same, it was important to identify the person in charge of statistics for tropical anguillid eels resource management.
Output:2 Tropical anguillid eel aquaculture technologies are improved in AMS.	1. Main factors that reduce the survival rate of juvenile eels are identified and consolidated. 2. Improved technologies for higher survival of eel juveniles are identified.	1.Main factors are identified (reference of Final report on page 61-91, and Manual of “Nursery Culture of Tropical Anguillid eels in Philippines”)	

	<p>3. The Aquaculture technique manual for improvement survival rate was compiled.</p> <p>4. Staff in charge of eel aquaculture of all AMS understand the technologies .to improve survival rate of juvenile anguillid eel.</p>	<p>2. Improved technologies for higher survival of eel juveniles are identified (reference of Final report on page 61-91, and Manual of “Nursery Culture of Tropical Anguillid eels in Philippines”)</p> <p>3. A manual was developed for improving eel farming technologies.</p> <p>4. A manual of techniques for survival rate of juvenile anguillid eel submitted to AMS.</p>	
<p>Output: 3 Knowledge on the methodologies for collecting statistical information and tropical anguillid eel resource management is enhanced at the central and regional level.</p>	<p>1. Methodologies on statistical information collection of tropical anguillid eels are better understood by government officials of AMS.</p> <p>2. Knowledge on tropical anguillid eel resource management is enhanced among AMS</p>	<p>1. Through various activities of the project, the technology to collect statistical information on tropical anguillid eels by government officials of AMS has been improved.</p> <p>2. Knowledge of resource management of tropical anguillid eel was strengthened, through various activities of the project.</p>	

5. Publications and Others (e.g. technical report, VDO, presentation file, etc.):

List of completed publications	Type of media	Attached e-file
<ul style="list-style-type: none"> Status and Resources Management of Tropical Anguillid Eels in Southeast Asia 	Electronic data (On website of CTIES home page)	https://cites.org/sites/default/files/eng/com/ac/30/Inf/E-AC30-Inf-11.pdf
<ul style="list-style-type: none"> Nursery Culture of Tropical Anguillid Eels 	Publication	https://repository.seafdec.org.ph/handle/10862/48/recent-submissions
<ul style="list-style-type: none"> Report on “Enhancing sustainable utilization and management scheme of tropical Anguillid eel resources in Southeast Asia” 	Publication	http://repository.seafdec.org/handle/20.500.12066/5488
<ul style="list-style-type: none"> Video to introduce the project 	Posted on the SEAFDEC website	https://www.youtube.com/watch?v=iYvPOQ6pyIA