




PROGRESS REPORT

2024

APLAYA: A Comprehensive Fisheries Livelihood Extension Program

Romblon State University –
Sta. Maria Campus

 rsu - etaso

 etaso@rsu.edu.ph



March 21, 2024

DR. ORFELINA I. MANZO

ETASO Director

ETAS Office

Romblon State University – Main Campus

Odiongan, Romblon

Ma'am,

I am writing to inform you that the progress report for the extension program entitled "APLAYA: A Comprehensive Fisheries Livelihood Extension Program" has been submitted to the ETAS Office. This report details the advancements and achievements made during the extension program period, including milestones reached, challenges encountered, and plans for future development.

Throughout the duration of the extension program, our team has work diligently to meet project objectives and deliverables outlined in the initial proposal. We have conducted thorough engaged stakeholders and implemented strategies to address the needs of our target audience effectively.

In the progress report, you will find comprehensive insights into the activities undertaken, outcomes achieved, and the overall impact of the extension program on the community or organization it serves. Additionally, we have included any necessary documentation, such as financial statements or data analysis to support our findings and recommendations.

We appreciate the opportunity to participate in this extension program and are committed to its continued success. Should you require any further information or assistance, please do not hesitate to contact me at 09393893534.

Thank you for your attention to this matter.

Sincerely,


CARLO R. CASTRO


Lead Proponent

Noted:

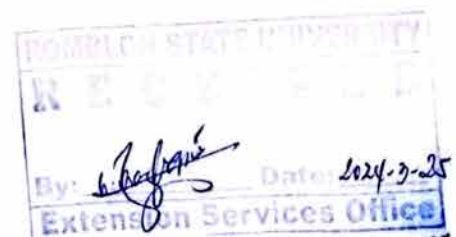

ALEZON G. LOTA

Extension Chairperson

Endorsed by:


JOEMAR F. MANZO

Campus Director



APLAYA: A Comprehensive Fisheries Livelihood Extension Program

Romblon State University – Santa Maria Campus

Lead Proponent	<i>Carlo R. Castro</i>
Co - Proponent	<i>Dr. Joemar F. Manzo Mrs. Marilyn M. Galan Mr. Reigner C. De La Cruz Mr. Sagrado C. Magallanes Mrs. Vanesa D. Bringas Patrick M. Galicha Lou Renz Kate G. Musca Marife M. Galasao Ben Jacob Y. Lagueza Mary Joy V. Lagueza Alezon G. Lota</i>
Component Project 1 Project Leader	<i>Sagrado C. Magallanes</i>
Management Team	<i>Carlo R. Castro Joemar F. Manzo Patrick M. Galicha Ben Jacob Y. Lagueza</i>
Cover Letter	<i>(See attached file in the Appendices)</i>
Summary	<i>The program is on the process of implementation. The Component 1 Project which is Improving Fish Production; the following are the highlights: ➤ Organizing the fisherfolks ➤ Conducted Seminar in Aquaculture ➤ Provisions of Fishing equipment ➤ Hands – on/ Workshop/ Actual establishment of fishponds.</i>
Introduction	<i>This component project focuses on improving fish catch and promoting sustainable freshwater production among fisherfolks. It involves three main activities: the first one is organizing formal or informal discussions led by Mr. Arnulfo Mainit, this phase gathers 30 recipients to discuss methods for enhancing fish catch. Topics include techniques, equipment, and best practices to optimize fishing efforts. Second, training in Freshwater Production specifically targeting tilapia or carps, this training initiative aims to educate participants on freshwater fish production techniques. This training ensures recipients have the knowledge and skills necessary for successful fish farming, contributing to long-term sustainability. Last, provision of fishing equipment. The Campus Director oversees the provision of available fishing equipment from the campus resources. This ensures that participants have access to the necessary tools to implement the strategies discussed during the organizing phase effectively. Additionally, Mr. Sagrado Magallanes leads discussions accommodating 30 fishermen, further enhancing knowledge-sharing and collaboration within the community. Overall, this project integrates training, discussion, and resource provision to empower fisherfolks, improve fish catch, and promote sustainable freshwater production, contributing to the long-term viability of the fishing industry and the community's livelihoods.</i>
Objectives	<i>The main objective of this component project is to Improve the fish production of fisher folk recipient of this program.</i>

	<p><i>This therefore will have the following specific objectives:</i></p> <ul style="list-style-type: none"> ➤ <i>To organize the fisher folks to have a concept collective way of production</i> ➤ <i>To impart knowledge in fisheries technology</i> ➤ <i>To maximize the utility of the available equipment of the campus.</i>
<p>Methodology</p>	<p><i>We initiated communication with the fisherfolks of Concepcion Norte, identifying 30 individuals within the community who became the recipients of our project. Recognizing the importance of expertise in fisheries, we enlisted the assistance of Mr. Arnulfo Mainit and Sagrado Magallanes, both renowned experts in the field. They imparted valuable knowledge on various aspects of tilapia farming, including essential processes, proper care techniques, and effective starting points for those venturing into fish farming for the first time.</i></p> <p><i>Expanding upon this foundation, we organize a workshop on the subsequent day, which served as hands-on learning opportunity for our recipients and B.S. Fisheries Students. Led by Mr. Arnolfo Mainit and Sagrado Magallanes, this workshop focused on the intricacies of constructing a fishpond, selecting suitable locations, and implementing best practices to optimize fishpond productivity.</i></p> <p><i>The overarching goal of these endeavors was not solely limited to imparting technical knowledge. Rather, our objective was to equip the fisherfolks of Concepcion Norte with practical skills and resources to diversify their livelihood opportunities and mitigate the risks associated with traditional fishing methods. By introducing them to the concept of fishpond farming, we aimed to provide a sustainable alternative that could serve as a buffer against challenges such as adverse weather conditions or turbulent seas, which often disrupt fishing activities.</i></p> <p><i>Through these collaborative efforts and knowledge-sharing sessions, we sought to empower the local community to take charge of their economic well-being and foster resilience in the face of external uncertainties. By instilling confidence and offering tangible solutions, we envision a future where the fisherfolks of Concepcion Norte can thrive and prosper, regardless of the challenges they may encounter in their maritime endeavors.</i></p>
<p>Result and Discussion/ Accomplishments</p>	<p><i>The establishment of a fishermen's association in Sta. Maria names as "Samahan ng mga Mangingisda ng Sta. Maria" was a key objective of our project, serving as the cornerstone of cooperative efforts and organizational structure for the local fishermen. Additionally, we aimed to impart knowledge on proper fishpond construction, which can serve as an alternative source during inclement weather when venturing out to sea is unsafe. By leveraging the expertise of fisheries professionals, we conducted seminars aimed at enriching their understanding of effective fishing practices, fish husbandry, fishpond management, and various other relevant topics. Through these efforts, we sought to empower the fishermen of Sta. Maria with the skills and resources necessary to improve their economic well-being and resilience in the face of environmental challenges. With the support of the NFRDI (National Fisheries Research and Development Institute) and LGU – Sta. Maria (Local Government Unit), we were able to provide some fishing gear to assist them in their daily livelihood activities. While the quantity may not be substantial, we recognize the significance of these resources for their work. The NFRDI contributed by providing t-shirts and bags, while the LGU supplied nylon materials. Additionally, RSU – Sta. Maria Campus generously donated fishing nets and boats, offering them valuable tools for their fishing endeavors. Through these collaborative efforts, we aim to bolster the fishermen's capacity to sustain their livelihoods and improve their economic resilience.</i></p>

Conclusions	Component project 1 therefore is successful and beneficial to the identified recipients
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Attachment:

- a. Extension Proposals
- b. Communication Letters
- c. Travel Orders
- d. MOA/MOU
- e. Attendance per activity **(required)**
- f. Photo Documentation per activity
- g. Needs assessment result or request letter (Research based proposal)
- h. Individual evaluation per participants
- i. Summary of Evaluation- percentage of clients who rate the extension activity as good or better (per activity basis). You can also get the general evaluation of the extension program. **(required)**
- j. Other proof-programs, certificate, printed PPT presentation
- k. Soft copy of the terminal/progress report (in CD or USB)

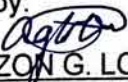
Prepared by:



CARLO R. CASTRO

Lead Proponent

Noted by:



ALEZON G. LOTA

Extension Coordinator

Recommending Approval: _____



JOEMAR F. MANZO

Dean/Campus Director

EXTENSION PROPOSAL



Sta. Maria Campus Extension Program Proposal

APLAYA: A Comprehensive Fisheries Livelihood Extension Program

Part I. Basic Information

Lead Proponent : Carlo Castro
 CP Number: 09393893534
 Email: cc3715056@gmail.com

Co-proponents

Names	Academic Rank	Field of Expertise/Specialization
Dr. Joemar F. Manzo	Associate Professor III	Public Administration
Mrs. Marilyn M. Galan	Assistant Professor I	Marine Fisheries
Mr. Reignier R. Dela Cruz	Assistant Professor I	Education
Mr. June B. Mijares	Assistant Professor I	English
Mrs. Vanesa D. Bringas	Instructor III	English
Mr. Sagrado C. Magallanes	Instructor I	Fisheries Science
Mr. Patrick Galicha	Lecturer I	Fisheries
Ms. Lou Renz Kate G. Musca	Lecturer I	Fisheries
Ms. Marife M. Galasao	Lecturer II	Fisheries
Mr. Ben Jacob Y. Largueza	Lecturer II	Fisheries
Ms. Mary Joy V. Largueza	Lecturer I	Math/ Physical Plant
Ms. Alezon G. Lota		Education

Implementing Agency: Romblon State University, Sta. Maria Campus

Collaborating Agencies: Local Government Unit of Sta. Maria
 Bureau of Fisheries and Aquatic Resources
 Department of Trade and Industry
 Yellow Boat of Hope Foundation
 TESDA

Program Duration: From January 2022 – December 2023

Source of Fund

Cooperating Agency	:	P131,000.00
LGU – Sta. Maria	:	
RSU Extension Fund	:	P98,000.00
Total	:	P219,000.00

Target Recipients and Participants of the Program

This extension program expects 100 participants from the fisherfolks, their spouses, and Micro-Small-Medium entrepreneurs.

Program Description

Rationale

APLAYA is a Filipino term which means land along the sea (Dalampasigan, tabin-dagat). This definition reflects the characteristics of the municipality of Sta. Maria which is along the sea where most of their constituents get their living through fishing. *Aplaya* is a place where fisher folks gather together before and after fish catching activities. This becomes a waiting place of fishermen spouses and do their businesses.

In this paper, **APLAYA** will be a venue for the RSU Sta. Maria Campus extension program. This program is intended to have an alternative livelihood training for fisherfolks including their spouses on fish production and product processing. It will also include trainings and workshops on marketing of their produce. Micro – small and medium entrepreneurs will also be involved in this program as partners in marketing of the produce.

The program was conceived as response to the effort of the Department of Trade and Industry in establishing the Fish Processing facility in the Campus which includes solar drier, smoked, and fish canning facilities. This is a complete facility having a clean water source and storage, and packaging facility and equipment. The Department also provided a building for fish processing activities. This facility and equipment have an estimated cost of Three Million pesos (P3,000,000.00). The efforts of the Department of Trade and Industry were based on their findings and observations that the municipality of Sta. Maria is able to produce plenty of fish (marine fish).

This is a research-based extension program as Galicha, et. al (2019) that most of fisher folk spouses were just in secondary school level, and mostly housekeepers with a family monthly income of 3,000.00 to 5,000.00.

Fish processing could address the prevailing situation and help Romblomanon stabilize their family income through fish processing. drying, salting and smoking had been an important fish processing method employed in the province. Over the years, the process somehow contributed economically because of the value added and made fish available more during the lean months. However, the volume being processed constitutes a meager proportion of the total fish catch because to up to now, fish processing is still a household level activity and less attention is provided. In fact, to satisfy the local demand for the product, record in 1989 shows that Romblon had sourced 1.34 metric tons dried fish from nearby Provinces of Panay Island and Palawan. With the fast-growing population, changes in consumer preferences were created for various processed fish and other aqua-marine products like sardines of several preparations, tinapa, lamayo, boneless, among others. In like manner, the changes in the demographic needs and wants had brought for more technological exploration and advancement in fish processing that trigger the opening of livelihood opportunity and potential source of additional income among fisherfolks.

The Romblon state University, Sta Maria Campus is offering a Bachelor of Science in Fisheries Technology. Hence, the campus is capable of extending its expertise in fish industry including fish production and processing.

Realizing this program will be an important activity for the University in attaining its mission statement saying that the "University shall nurture an academic environment that provides advanced education, higher technological, professional instruction technical expertise in agriculture and fishery, forestry, science and technology, engineering, education, humanities and other relevant fields of study and shall collaborate with other institutions and communities through responsive, relevant, and research-based extension services". It will also be an important way in attaining the **United Nations SDG** (Sustainable Development Goals), specifically goal number 1 – No poverty, goal number 2 – zero hunger, goal number 3 – gender equality, goal number 8 decent work and economic growth, and goal number 11 – sustainable cities and communities

Proponents believed that the program is very timely and answers the needs of the community. In the study conducted by Fontamillas (2021) on the government's preventive measures in combating COVID-19 pandemic in the Philippines, the researcher underscores that the pandemic has been bringing not just health issues but also social and economic concerns and with this, developing a plan may alleviate financial constraints, hunger and unemployment. In this time of pandemic, it is undeniably true that it resulted to unemployment, food and economic problems within families due to the limitation in physical movement and activities. Thus, this program may give chance to participant to provide an additional income that might support their needs in this time of crisis.

Objectives:

The main objective of this extension program is to impart knowledge on fish production, processing and marketing through trainings, seminars and workshops. Therefore, it will have the following specific objectives:

- *To organize and give additional income for the fisher folks by giving them the opportunity to utilize the available fishing equipment of the campus.*
- *To organize Women (fishermen spouses) to become more productive*
- *To impart knowledge on fish processing*
- *To have engage women (fishermen spouses) in marketing their own product*
- *To link the women's organization to Micro, Small, and Medium Entrepreneurs (MSME)*

Program Location

The program will be conducted in the municipality of Sta. Maria, Romblon. It is a 5th class municipality and have a population of 8, 989 (2020 census). It consists 6 barangays namely the Bonga, Concepcion Norte, Concepcion Sur, Paroyhog, San Isidro, and Santo Niño.

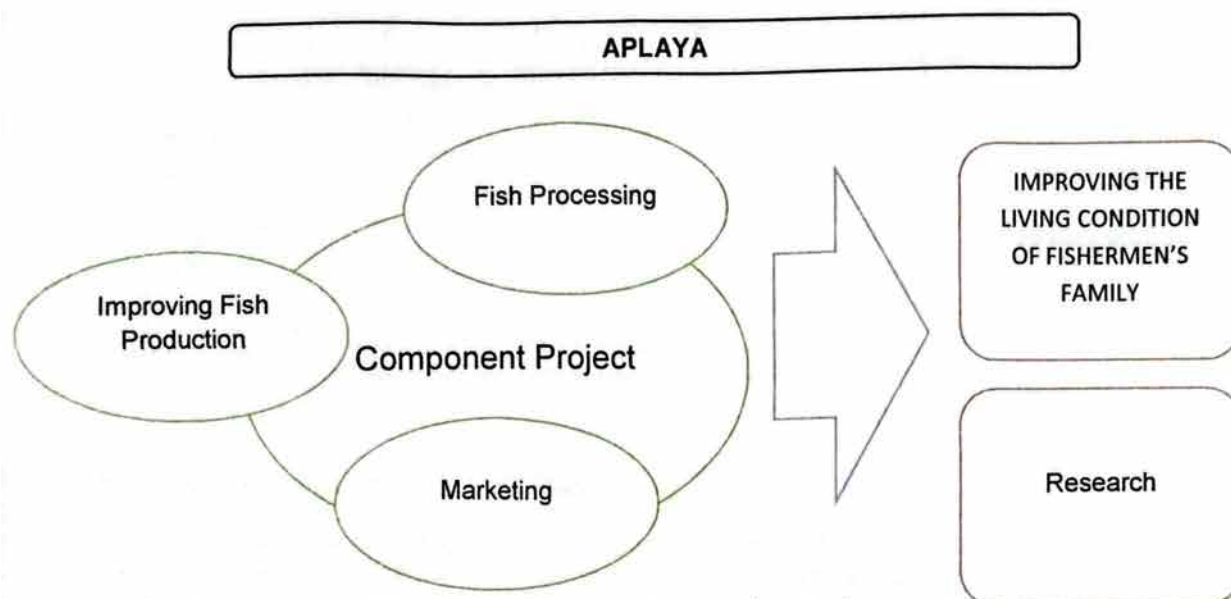


The Geographical location of the Municipality of Sta. Maria shows its potential in fisheries industry and thus merit the conduct of the Program.

Romblon State University – Sta. Maria Campus located in Concepcion Norte of the municipality is offering a bachelor of Science in Fishery and have an available equipment for the conduct of the extension program such as the Shared Service Facility (SSF) intended for fish processing like dried and smoked fish processing. Canning and even packaging, it has also fresh water fish tanks for production.

Methodology

Program framework



This program, is divided into three component projects such as:

- Project 1 : Improving Fish production**
- Project 2 : Fish Processing**
- Project 3 : Marketing**

As reflected in the framework, this extension program entitled **APLAYA** is composed of three major project components such as, the improving the fish production component project of this program will be composed of several activities such as organizing the fishermen. In this organization, they will be taught on how to improve their fish catch. They will also be given the chance to utilize the fishing equipment available in the university such as the fishing boat, the nets and other fishing equipment.

Fish processing is the second component of the program. After improving the fish catch, and to prevent the unnecessary devaluation of their produce, women, specially spouses of the organized fishermen will be taught on fish processing such as making dried or smoked fish, bangus deboning, rellenong bangus and even packaging of their produced processed products. To sustain that there is a raw material in their processing recipients will also be trained on how to grow a fresh water fish like tilapia, or carp,

Marketing their product is a very important component of this project. In this phase, recipient will be trained on how to market their own products. Recipients will have a knowledge on the field of entrepreneurship; hence they might engage in a micro – small – medium enterprises.

A. Social Mobilization (coordination, courtesy calls, technical briefing)

Since the program will be conducted in the municipality of Sta. Maria. It is important that there is a close coordination with the Municipal Local Government, especially with the Municipal Mayor, and with their Municipal Agriculture Office. If possible, allocation of counterpart budget allocation will be discussed during the consultation and all agreed items in the discussion shall be reflected in the Memorandum of Agreement. Barangay officials must have an idea of the activity and therefore requires to be consulted.

Recipient fishermen and women is very important aspect of this program. Hence, they must be consulted with their organization and conduct a technical briefing of the program. Since

it involves women, Gender and Development (GAD) office of the municipality of Sta. Maria will also be consulted/

Matrix showing the coordination scheme of the program (January, 2022 August, 2023)

Office	Coordination purpose				Key Person
	MOA signing	Budget allocation	Courtesy call	Invitation	
Office of the Mayor	✓	✓	✓	✓	Project leader
Barangay Official			✓	✓	Project leader
Municipal GAD Officer		✓	✓	✓	Project leader
Fishermen				✓	Project leader
Yellow Boat	✓			✓	
Women				✓	Project leader

B. Implementation (activities, modalities)

This program as reflected in its component projects and activities will be in a form of community organizing, immersion with the fisher folks, conducting seminars, trainings and workshop, production, and conducting research related to the program.

In this time of pandemic, health protocols will be observed. Virtual consultation will be made if face to face will not be permitted by the situation. Limited in – person gathering will be observed. Therefore, a series or batch by batch will be the scheme in conducting gathering in the seminar and workshop activity phase.

As to the Campus Expertise, only Selected faculty member will be involved in the implementation phase. Not all of the faculty of the campus shall join every phase of the implementation. In this manner, the matrix below will show the implementation phase of the program.

Component Project	Activities	Dates of Implementation	Target Recipient	Modalities
Improving Fish production,	Organizing the fisher folks Discussion in improving their catch Provision of equipment of the campus	January – March 2024	30 fisher folks	face to face
Fish processing	Organizing Women Seminar and workshops in deboning (Bangus), Smoked and Died fish, Canning and packaging of products Sea weed processing	April to October 2024	30 women	Seminar - Workshop (face to face)
Marketing	Seminar and workshop in Micro – Small – Medium Enterprise	November	30 women	Seminar (Face to face) workshop

Implementation of the component project 1 – Improving Fish production

Specific Project Objectives

The main objective of this component project is to Improve the fish production of fisher folk recipient of this program. This therefore will have the following specific objectives:

- To organize the fisher folks to have a concept collective way of production
- To impart knowledge in fisheries technology
- To maximize the utility of the available equipment of the campus.

The following matrix shows the management team of the project component.

	Name	Expertise	Academic Rank
Project leader	Mr. Sagrado C. Magallanes	Fisheries	Instructor III
Member	Mr. Carlo R. Castro	Social Science	Assistant Professor I
	Dr. Joemar F. Manzo	Governance	Associate Professor III
	Mr. Patrick M. Galicha	Fisheries	Lecturer I
	Mr. Ben Jacob Y. Largueza	Science	Lecturer II
	Ms. Mary Joy V. Largueza	Math/ Physical Plant	Lecturer I

The matrix shows the management team and their field of expertise. This shows that the campus has a pool of expert available in organizing the fisher folks and in improving their production.

Component activities

This component project will be composed of organizing the fisher folks, To have a formal or informal discussion on improving the fish catch of the recipients, provision of the available fishing equipment of the campus and a training in in lad fresh water production especially tilapia or carps.

Activities of the project implementation

Date	Activity	Modality	Recipient	Expert
January 2 nd Week	1. Organizing the fisher folks	In – person	30 Fishermen	Mr. Carlo R. Castro Mr. Ben Jacob Y. Largueza
Feb 1st week	2. Discussion in improving their catch *aqua marine)	In – person	30 Fishermen	Mr. Sagrado C. Magallanes
Feb 3rd week	3. provision of available equipment	In – person	30 Fishermen	Mr. Joemar F. Manzo Ms. Mary Joy V. Largueza
March 1 st week	4. In land fresh water fish production training workshop	In – person	30 Fishermen	Mr. Sagrado C. Magallanes, Mr. Patrick M. Galicha

The Matrix shows the flow of activities in the first component project of the program. It can be noticed that the organizing phase it will involve of 30 recipients and to be lead of Mr. Carlo Castro. Activity 2 will be in a face-to-face discussion, accommodating 30 fishermen and to be lead by Mr. Sagrado C. Magallanes. Provision of available equipment of the campus will be led by the campus director. In this phase, a Memorandum of Understanding will be made between the campus director and the fishermen organization. Fresh water tilapia production will also be conducted for the sustainability of the availability of raw materials in the second project the processing.

Implementation of project Component 2 – Fish Processing Program

Specific Project Objectives

The objective of this project is to have a sustainable livelihood among fishermen's family. Hence, it will have the following specific objectives:

- This project wishes to develop the skills of among spouses of fisher folks in fish processing
- To have the recipient an additional income
- To have an employability opportunity for the recipients

Component Activities

As reflected in the objectives of the project, it is therefore a part of this project to conduct the following component activities:

Activity 1. Organizing women recipient especially the spouses of recipients in the component project 1

Activity 2. Conduct of theoretical seminars on fish processing

Activity 2. Conduct actual training and workshop in fish processing.

In this phase of the extension project, recipients will be organized for them to have a collective spirit of production. The organization will be electing their own officers and will have a plan on their activities. Later on, their organization will also be the management board in the marketing phase of the project.

A series of lectures and workshop on fish processing will be held on this project such as fish (Bangus) deboning dried and smoke fish or even making canned sardines. Recipients will also be taught on packaging and canning of their products. In this case the next matrix will show the activities, modality and experts involve in each activity.

Matrix of activities

Date	Activity	Modality	Number of Recipient	Expert
Apr. 1 st and 2 nd week	1. Organizing the recipients (Women)	Face to face	30 women (2 batches)	Ms. Mary Joy V. Largueza
May 1 st week, June 1 st week	2. Theoretical seminars on fish processing	Face to face	30 Women (2 batches)	Ms. Marilyn Galan
July – to Oct. 1 st week	3. Actual Workshop in fish processing	Face to face	60 Women (4 Batches)	TESDA Experts

It is shown in the matrix that experts of the campus in fisheries will be involve in the project. An expert coming from TESDA will be invited as a resource person in the actual training on fish processing, and if possible, convert the training to have a National competency level II (NC II)

As to its modality, it will be in a form of a series of face-to-face training workshops. Recipients which who will be attending the activities will be required of a certificate coming from their respective barangays, physical distancing will be observed together with the wearing of face mask and shields.

Matrix shows the management group of component project 2

Activity 1. Organizing the Recipients (Women)			
	Name	Academic Rank	Field of Expertise
Overall, Team leader	Alezon G. Lota		Education
Facilitators	Hillary Dwainee Lorenzo	Lecturer I	Education
	Reignier M. Dela Cruz	Instructor I	Education
	Ms. Mary Joy V. Largueza	Lecturer I	Math/ Physical Plant
Activity 2 Theoretical Seminar on Fish processing			
Team Leader	Ms. Marilyn Galan	Assistant Professor I	Marine Fisheries
Facilitator	Patrick Galicha I	Lecturer	Fisheries
Activity 3 Workshop in fish processing			
Team Leader	Lou Renz Kate Musca	Lecturer I	Fisheries
	Vanessa Bringas	Instructor III	Language

	Marife Galasao	Lecturer II	Fisheries
	Mary Joy Lagueza	Lecturer I	Fisheries

Implementation of Project Component 3 – Seminar workshop in Marketing

The main purpose of this component project is to have an outlet of the products produced in the fish processing phase. With this it aims with the following specific objectives;

- To impart knowledge in entrepreneurship
- To have the recipient an additional income through marketing their own products.
- To link the organized women to Micro – Small Medium size entrepreneurs
- To introduce the fish processed products to the market, and
- To sustain the program

Component Activities

As reflected in the objectives of the project, it is therefore a part of this project to conduct the following component activities:

Activity 1. Theoretical seminars on entrepreneurship

Activity 2. Workshops and actual marketing of their products

Matrix of activities

Date	Activity	Modality	Number of Recipient	Expert
Nov. – Dec. 2024 every 1 st week	1. Theoretical seminar on entrepreneurship	Limited Face to face	30 recipients	Expert from the DTI
Jan. 2025 to December 2025	2. Workshop and actual marketing of products	Limited Face to face/ on line marketing	30 recipients	Expert from the DTI Expert from the CBA

The matrix above shows that the project has 2 component activities, the theoretical seminar and the actual marketing of the products. A limited face to face shall be conducted in the in the seminar hence there will be 2 batches of this activity allowing only 15 participants in each conduct of seminar. On the other hand, aside from the limited face to face or in person marketing an on-line marketing shall also be taught and conducted. Experts from the Department of Trade and Industry shall be invited together with the experts from the College of Business and Accountancy.

3. Post- Implementation (evaluation and monitoring)

Each activity will be evaluated based on the following criteria or parameters

- a. Preparation
- b. Coordination
- c. Accommodation
- d. Lectures and discussions flow
- e. Significance and gained knowledge

In monitoring of the project, a post activity or visitation in every office or barangay will be done. Interviews will be conducted to measure the significant change or development in the lives or economic development or improvement of recipients. Visitation will also be conducted to ensure the sustainability of the project. It will also be evaluated if there is a need for a follow up activity or to be replicated.

Program Gender and Development component

Since this activity will be dealing with women (Fishermen spouses), the working group of this activity will ensure gender sensitivity especially on topics dealing sexuality. The Team

conducting in each component projects will have a close coordination with the Campus GAD coordinator or to the University Gender and Development Office.

Program Sustainability Plan

Matrix of Sustainability Plan

Areas to be sustained	Actions to be taken
Organization of Fishermen and Women	To sustain the organization established among fisher folks, and women there should be a comprehensive plan of their programs of activities. Regular meeting and consultations shall be scheduled
Skills and knowledge gained by recipients in fish processing and marketing	There shall have a continuing training on new technologies on processing. If possible, some recipient shall be sent to regional, national or even international training to have a higher knowledge and skills in fish and other marine product (seaweed) processing. There should have an evaluation of the linkages of the marketing and their income to sustain the production of their products. There should also have an established source of raw materials from fish growers. If possible the campus should have an established production of tilapia a raw materials of processing and marketing.
Linkages that has been established	A continuous communication, meetings and consultations shall be conducted to sustain the linkages that has been established between the Local Government Unit, the DTI the TESDA and the Non – Government Organization (Yellow Boat Foundation). New collaborative projects and programs shall be crafted during this consultations and meetings.
The program	It is important the program – APLAYA will not perish after the conduct in the municipality of Sta. Maria, it is important that other municipalities be benefited also by this program by replicating it like in the Municipality or Alcantara or other barangays of San Agustin. It will also be replicated to other recipients.

Program Expected Output

At the end of the program, it is expected to deliver the following outputs

For the University, it shall submit terminal report of the program,

For the collaborating partners, it is expected that there will be a sustainable linkage with the partner agency and organizations. In this case it shall have forged three (3) MOAs with the partners agency such as

1. MOA with the LGU (Office of the Municipal Mayor)
2. MOA with the (MAO), Municipal Agriculture Officer
3. MOU with the TESDA

It shall also submit reports on the conduct together with the financial report of the expenses and income of the program.

For the community of Sta. Maria, it is anticipated that the program will bring improvement or development to the community. 100 trained beneficiaries are expected to knowledge and skill in fish improving their fish catch, fish processing and marketing

It is Also expected that there should have an improvement in the economic status of the recipient.

Research Opportunities

This program expects research paper in the area of fisheries such as:

- The effectiveness of the program APLAYA
- On improving fish catch or in identifying possible available fishes in the municipality of Sta. Maria.
- Production, Innovation and creation of new fish products
- Acceptability of the products produce in the Market.

Budgetary Requirements and Utilization of the program

Pre-Implementation

Particulars	Amount
Travel/Transportation	P1,000.00
Communication	P1,000.00
Supplies and materials	P5,000.00
Total	P7,000.00

Component project 1. Improving Fish production

Activity	Particulars	Amount
Activity 1	Meals/snacks (20 participants x P150.00 per pack)	P 3,000.00
Activity 2	Meals/snacks (20 recipient x P150.00 per pack)	P 3,000.00
Activity 3	Repair of Equipment (Bangka)	P 60,000.00
Activity 4	Repair of fish tank	P 10,000.00
	Feeds for tilapia	P 15,000.00
	Total	P91,000.00

Component project 2. Good Operations and Skills Enhancement

Activity	Particulars	Amount
Activity 1	Meals/snacks (40 participants x 150 per pack)	P 6,000.00
Activity 2	Meals/snacks (40 participants x 150 per pack)	P 6,000.00
Activity 3	Meals/snacks (80 participants x 150 per pack)	P 12,000.00
	Working Table (stainless) P10,000.00	P66,050.00
	Plastic Curtain x15 yards = P750.00	
	Dipping Vat (plastic)x 1 unit P600.00	
	Plastic Chopping Board (15 pcs x P250 = P3,700.00)	
	Forceps (15 units x P200 = P3,000)	
	Pillet Knife (15 units x P250 = P3750)	
	Knife (15 units x P300 = P4,500.00)	
	Close-Toe Slipper / Shoe (white) (15 pairs x P300 = P4500.00)	
	Water Proof Apron (15 pcs x P200 = P3,000.00)	
	Fish Bangus and Galunggong (200 kilos x P180 = P36,000.00)	
	Total	P 84,050.00

Component project 3. Marketing

Activity	Particulars	Amount
Activity 1	Meals/snacks	P 6,000.00
Activity 2	Meals/snacks	P 6,000.00
	Communication	P10,000.00
	Transportation	P10,000.00
	Total	P32,000.00

Post Implementation Evaluation/Monitoring/Reporting

Particulars	Amount
Supplies and materials	P5,000.00
Total	P5,000.00

Summary of Budgetary Requirement

Pre-Implementation	P7,000.00
--------------------	-----------

Component project 1	P 91,000.00
Component project 2	P 84,050.00
Component project 3	P 32,000.00
Post Implementation	P 5,000.00
GRAND TOTAL	P 219,600.00

YEARLY BUDGET ALLOCATION

FIRST YEAR	P98,000.00
SECOND YEAR	P84,000.00
THIRD YEAR	P37,000.00
	P219,000.00

Source of Fund

Cooperating Agency	:	P98,000.00
LGU – Sta. Maria	:	
RSU Extension Fund	:	P132,000.00
Total	:	P219,000.00

Gantt chart of the APLAYA Extension Program

Activities	2 th quarter, 2021	First quarter, 2022	2 nd quarter, 2022	3 rd quarter, 2022	4 th quarter, 2022	1 st quarter, 2023	2 nd quarter, 2023	3 rd quarter, 2023	4 th quarter, 2023
Pre – Implementation									
Preparation of Extension proposal. And other documents									
Discussion of the activity with the cooperating agency									
Seeking BOR approval									
Project Component 1 – Improving fish production									
Project Component 2 – Fish processing									
Project Component 3 – Marketing									
Post Implementation :									
Evaluation, monitoring, reporting									

Prepared by



CARLO R. CASTRO
Lead Proponent
Extension Coordinator, Sta Maria Campus

Noted by:



JOEMAR F. MANZO, DPA
Director, Sta. Maria Campus

EVALUATION FORM

Direction: This is to evaluate the Sta. Maria Extension project **APLAYA: A Comprehensive Livelihood Extension Program**

Profile of Respondents

Name: _____ (Optional)
 Position/ Occupation: _____

Please put a mark check (✓) on the space provided that signify your level of agreement base on the following scale and descriptive interpretation. *Pakimarkahan ng Check (✓) ang nakalaang ispasyo na nglalarawan ng inyong pagsang-ayon batay sa panukat at karampatang interpretasyon*

- 5 – Strongly Agree (*lubos na sumasang – ayon*)
- 4 – Agree (*Sumasang – ayon*)
- 3 – Neutral (*Nyutral*)
- 2 – Disagree (*Hindi Sumasang ayon*)
- 1 – Strongly Disagree (*Lubos na Hindi sumangsang – ayon*)

Impressions of the Recipient:

Indicators	5	4	3	2	1
1. There is a well coordination between LGU and the RSU Sta. Maria Campus. <i>Mayroong maayos na koordinasyon ang LGU at ang RSU Sta. Maria Campus</i>					
2. The RSU do their part well as stated in the agreement <i>Ginagawa ng RSU ang kanilang mga tungkulin ayon sa napagkasunduan</i>					
3. LGU partners do their part well <i>Ginawa ng maayos ng mga partner na LGU</i>					
4. The discussion during the activities was excellent <i>Maayos ang mga talakayan sa mga actitiies</i>					
5. The points of discussions were clear during the seminar <i>Malinaw ang mga punto sa talakayan sa seminar</i>					
6. Participant during the seminars were free to ask question <i>Malayang nakakapagitanong ang mga participant sa seminar</i>					
7. the topics being discussed were useful to the participants <i>Nakatulong sa mga kalahok ang mga paksa na tinalakay</i>					
8. There is an excellent use of multi-media as visual aid for the discussions <i>Mahusay ang paggamit ng multimedia bilang visual aid sa mga talakayan</i>					
9. Participants gains knowledge in the seminar <i>Maraming natutunan ang mga kalahok sa seminar</i>					
10. Expectations of the participants were met <i>Naabut ang mga inaasahang dapat mtutunan ng mga kalahok</i>					
11. Resource speakers were very good during seminar <i>Mahuhusay ang mga resource speaker sa seminar</i>					
12. There is a good accomodations for the participants of the activity <i>Mayroong mahusay na accommodations sa mga kalahok sa activity</i>					
13. The venue was conducive for learning <i>Ang pinagdausan ay mainam para matuto</i>					
14. There is a good food/snacks served during the session <i>Maayos ang pagkain/meryenda na isinerved</i>					
15. There is a well coordination with the IATF in conducting the gatherings <i>Mayroong maayos na koordinasyon sa IATF sa pagganap ng pagtitipon</i>					

Over-all Evaluation of the Project (Please rate the project base on the following ratings: 5 – Excellent, 4 - Very Good, 3 – Good, 2 – Fair, 1 – Poor)

Indicators	5	4	3	2	1
1. Coordination (<i>Koordinasyon</i>)					
2. Barangay Participation (<i>paglahok ng Barangay Officials</i>)					
3. Discussions during the seminar/workshops (<i>mga usapin sa seminar at Workshop</i>)					
4. Usefulness of the knowledge gained (<i>kahalagahan ng mga natutunan</i>)					

COMMUNICATION LETTERS



ROMBLON STATE UNIVERSITY

EXTENSION AND TECHNICAL ADVISORY SERVICES OFFICE
RSU - Santa Maria Campus, Concepcion Norte, Santa Maria, Romblon, 6502
Email: alezonlota17@gmail.com
Website: rsu.edu.ph



Management System
092 690 65352



JANUARY 29, 2024

MR. ARNULFO B. MAINIT, JR., RFP
Fisheries Technician
Municipality of Odiongan

Sir,

I hope this letter finds you well. It is with great pleasure that I extend an invitation to you to serve as a distinguished speaker at our upcoming seminar, "Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability". Your expertise and experience in Fish Pond preparation for Tilapia farming align perfectly with the theme of our event.

Event Details:

Date: February 2 and 9, 2024
Time: 8:00 am
Venue: Municipal Conference Hall

The objective of our seminar is to creating a cohesive collective approach among fisherfolks for production, imparting fisheries technology knowledge, and optimizing equipment utilization to enhance overall productivity and sustainability in the fishing industry, and we believe your insights would greatly contribute to the enriching discussions we aim to foster. Your presentation, titled "Fish Pond preparation for Tilapia farming," would undoubtedly provide valuable perspectives for our diverse audience.

In addition to your speaking engagement, we also anticipate an engaging Q&A session and the opportunity for attendees to connect with you during the networking breaks.

We highly value your expertise and believe your participation will enhance the overall quality of our seminar. Your acceptance of this invitation would be an honor for us.

Please let us know, if you are available on the specified date, and if so, we will proceed with the necessary arrangements. Feel free to contact us at 09269065352 or via email at alezonlota17@gmail.com to discuss any further details.

Thank you for considering our invitation. We look forward to the possibility of having you as a distinguished speaker at Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability.

Very truly yours,

MS. ALEZON G. LOTA
Chairperson
Extension and Technical Advisory Services Office
RSU Sta. Maria Romblon

Noted.

JOEMAR F. MANZO, DPA
Campus Director
RSU Sta. Maria Romblon

Handwritten note:
OK LOTA
1-29-24



ROMBLON STATE UNIVERSITY

EXTENSION AND TECHNICAL ADVISORY SERVICES OFFICE
RSU – Santa Maria Campus, Concepcion Norte, Santa Maria, Romblon, 5502
Email: stamacampus@rsu.edu.ph
Website: rsu.edu.ph



Management System
ISO 9001:2015



JANUARY 29, 2024

HON. TRINA ALEJANDRA Q. FIRMALO-FABIC
Municipal Mayor
Municipality of Odiongan, Romblon

Thru: **MR. REXFORD F. FAMISARAN**
Municipal Agriculturist
Odiongan, Romblon

Attention: **MR. ARNULFO B. MAINIT, JR., RFP**
Agricultural Technologist
Odiongan, Romblon

Madam:

Greetings of Peace and Prosperity.

We are so eager to invite **MR. ARNULFO B. MAINIT, JR.** to serve as one of our resource speakers for our upcoming event, "Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability in Sta. Maria," scheduled on February 2 and 9, 2024, at Municipal Conference Hall. We believe that his valuable insights, experiences, and wisdom about aquaculture would significantly enhance our seminar-workshop and contribute to its successful implementation.

The objective of our seminar is to create a cohesive collective approach among fisherfolks for production, imparting fisheries technology knowledge, and optimizing equipment utilization to enhance overall productivity and sustainability in the fishing industry.

Thank you very much, and we hope for your positive response regarding this matter. If you have any questions about this invitation, please feel free to contact me at 09269065352 or via email at alezonlota17@gmail.com.

Very truly yours,

MS. ALEZON G. LOTA
Chairperson
Extension and Technical Advisory Services Office
RSU Sta. Maria Romblon

Noted:

JOEMAR F. MANZO, DPA
Campus Director
RSU Sta. Maria Romblon



DATE: **JAN 29 2024**
ODIONGAN OFFICE OF THE MAYOR

TRAVEL ORDERS



ROMBLON STATE UNIVERSITY
SANTA MARIA CAMPUS | SCHOOL OF FISHERIES TECHNOLOGY
OFFICE OF THE CAMPUS DIRECTOR

RSU-Santa Maria Campus, Concepcion Norte, Santa Maria, Romblon 5502
 Email: stamariacampus@rsu.edu.ph
 Website: rsu.edu.ph



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 ISO 9001:2015



www.tuv.com
 T 900019803

Document Reference No. 06, s. 2024

MEMORANDUM

TO : ALL FACULTY AND STAFF
 This Campus

FROM : ~~JOEMAR F. MANZO, DPA~~
 Campus Director

SUBJECT : EXTENSION ACTIVITY

DATE : January 29, 2024

In fulfilling one of the major thrust of the university, excellence in extension, this campus sill be implementing the component 1 improving fish production of the campus extension program entitled *APLAYA: A Comprehensive Fisheries Extension Program*. With this, all faculty involved in the project are hereby requested to attend the seminar – workshop on February 2, at third floor, Municipal Conference Hall, Municipality of Santa Maria.

For information and guidance



RSU Vision

A research-based academic institution committed to excellence and service in nurturing globally competitive workforce towards sustainable development.

RSU Mission

Romblon State University shall nurture an academic environment that provides advanced education, gives technological and professional instruction and technical expertise in agriculture and fisheries, forestry, engineering and technology, education, humanities, science, and other relevant fields of study and collaborate with other institutions and communities through responsive, relevant and research-based extension services.

RSU Quality Policy

Romblon State University commits to provide higher education through quality instruction, research, production, and community-based extension services that meet or exceed the requirements and expectations of the university's stakeholders. It will comply with international standards, applicable statutory and regulatory requirements, and continually improve the Quality Management System's effectiveness through periodic monitoring and evaluation toward sustained remarkable outcomes.

RSU Core Values

- Stewardship
- Competence
- Resilience
- Integrity
- Balance
- Excellence
- Service

These Core Values serve as our guiding principle in our efforts to make ROMBLON STATE UNIVERSITY a recognized HEI in the region and beyond.



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A research-based academic institution committed to excellence and service in nurturing globally competitive workforce towards sustainable development.

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RSU Core Values

- Stewardship
- Competence
- Resilience
- Integrity
- Balance
- Excellence
- Service

These Core Values serve as our guiding principle in our efforts to make ROMBLON STATE UNIVERSITY a recognized HEI in the region and beyond.

Document Reference No. 07, s. 2024

MEMORANDUM

TO : ALL FACULTY AND STAFF
This Campus

FROM : JOEMAR F. MANZO, DPA
Campus Director

SUBJECT : EXTENSION ACTIVITY

DATE : February 5, 2024

In fulfilling one of the major thrust of the university, excellence in extension, this campus will be implementing the component 1 improving fish production of the campus extension program entitled *APLAYA: A Comprehensive Fisheries Extension Program*. With this, all faculty involved in the project are hereby requested to attend the seminar – workshop on February 9, at third floor, Municipal Conference Hall, Municipality of Santa Maria.

For information and guidance



MOA/ MOU

MEMORANDUM OF AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

This Memorandum of Agreement (MOA) is made and entered into by and between:

Romblon State University, a state university in the province of Romblon with principal office at Brgy. Liwanag, Odiongan, Romblon, represented herein by its President **DR. MERIAN P. CATAJAY-MANI**, herein referred to as the "FIRST PARTY;"

- and -

Local Government Unit-Sta. Maria, Romblon, represented herein by **HON. LORILIE M. FABON**, in her capacity as the **Municipal Mayor of the Municipality of Sta. Maria**, referred herein as "SECOND PARTY."

WITNESSETH:

WHEREAS, the FIRST PARTY, as a premier higher education institution in the MIMAROPA region is committed to provide advance education, higher technological professional instruction and training in agriculture and fishery, forestry, science and technology, arts and other relevant fields of study. It shall undertake research and extension services, and provide progressive leadership in its areas of specialization;

WHEREAS, the FIRST PARTY implements collaborative and responsive extension projects and programs intended to have an alternative livelihood assistance and training program for fisherfolks on fish production, product processing, and trainings and workshops on marketing of their produce;

WHEREAS, the SECOND PARTY, agreed to collaborate with FIRST PARTY and welcomes any program brought by the University through its different units and colleges and shall likewise provide necessary support and cooperation for the good of its constituencies;

WHEREAS, the FIRST PARTY, in partnership with the SECOND PARTY, implements the extension project, "APLAYA: A Comprehensive Fisheries Livelihood Extension Program;"

NOW, THEREFORE, for and in consideration of the foregoing premises and the mutual desire to provide extension services to the constituents of the municipality of Sta. Maria hereinafter set forth, the FIRST and SECOND PARTY have reached the following understanding:

I. PROGRAMS AND SERVICES

This undertaking shall be a joint project of the Romblon State University – Sta. Maria and the Local Government Unit – Sta. Maria as the FIRST PARTY and SECOND PARTY of this Memorandum of Agreement:

II. PROJECT OBJECTIVES

The main objective of this extension program is to impart knowledge on fish production, processing and marketing through trainings, seminars and workshops. Therefore, it will have the following specific objectives:

- a. To organize and give additional income for the fisher folks by giving them the opportunity to utilize the available fishing equipment of the campus.
- b. To organize women (fishermen spouses) to become more productive
- c. To impart knowledge on fish processing
- d. To engage women (fishermen spouses) in marketing their own products; and
- e. To link the women's organization to Micro, Small, and Medium Entrepreneurs (MSME)

III. ROLES OF COOPERATING PARTIES:

1. The **FIRST PARTY** shall, for its exclusive account, timely, properly, and adequately perform the following:
 - (a) Coordinate and collaborate with the **SECOND PARTY**;
 - (b) Provide assistance to the training team in the regular monitoring of the participants after the conduct of project. For sustainability of this extension project, a coordinator will be assigned to the target area (school).
 - (c) Obligation to Provide Funds. Commits to providing the agreed-upon financial contribution as outlines in the proposal. This commitment is legally binding promise to disburse the funds in accordance with the terms and conditions specified in the agreement.
 - (d) Specifications of Contributions. Defines the amount and method of the financial contribution. This includes stating the exact amount of money to be contributed, the currency, and any specific conditions of restrictions on how the funds can be used.
 - (e) Provide venue for the conduct of training activities
 - (f) Monitor the training activities; and
 - (g) Assess sustainability the implementation of the project.
2. The **SECOND PARTY**, shall perform the following:
 - (a) Provide assistance to the training team in identifying the beneficiaries (fisherfolks and spouses) of the extension program in the Municipality of Sta. Maria, Romblon; and
 - (b) The Municipal Agriculture Office will be responsible for the partnership on the program implementation
 - (c) Allocate counterpart funding for the program.
 - (d) Provide venue for the conduct of training activities
 - (e) Monitor the training activities; and
 - (f) Assess sustainability the implementation of the project.

IV. EFFECTIVITY

This Agreement shall take effect immediately upon signing and shall be terminated upon completion of this project unless otherwise sooner terminated upon mutual consent of all Parties.

V. DISPUTE RESOLUTION

The Parties agreed that any conflict, controversies, issues or disputes which may rise within or during the effectivity of this Agreement shall in their best efforts, try to settle the same among themselves.

VI. SEPARABILITY

If any provision or part of this Agreement shall be declared invalid or unenforceable by competent courts, the validity and enforceability of the other provisions or parts hereof shall not be affected or impaired.

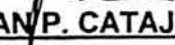
In the event any provision or part of this Agreement is declared invalid in accordance with the preceding paragraph above, the PARTIES shall meet in good faith to agree, to the fullest extent allowed by law, on a substitute provision that most closely approximates the intention contained in the invalid provisions, and amend this Agreement accordingly.

VII. AMENDMENTS

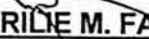
This Agreement shall not be revoked, revised, amended or modified in any respect except by the mutual consent through a written instrument duly executed and signed by the Parties herein.

IN WITNESS WHEREOF, the Parties hereto have executed this instrument on _____ in _____

For the FIRST PARTY:


MERIAN P. CATAJAY-MANI, Ed.D.,
CESE
University President

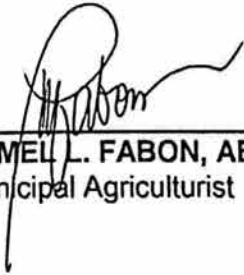
For the SECOND PARTY:


HON. LORILE M. FABON
Municipal Mayor, Sta. Maria, Romblon

Signed in the presence of:



JOEMAR F. MANZO, DPA
Campus Director



RAMEL L. FABON, ABE
Municipal Agriculturist



ORFELINA I. MANZO, Ed. D.
Director, ETASO

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES
(Province of Romblon) s.s

ODIONGAN, ROMBLON

BEFORE ME, a Notary Public for _____ and in the Province of Romblon, this _____ day of NOV 14 2023, 2023, personally came and appeared:

Name	ID Number
DR. MERIAN CATAJAY – MANI, CESE	<u>RSUJA No. 01 - 01</u>
HON. LORILIE M. FABON	<u>DIO -13 -000534</u>

known to me are the same person who executed the foregoing Memorandum of Agreement and they acknowledge before me as the same is of their own will and voluntary act and deed, and that of the institutions they represent.

WITNESS MY HAND AND SEAL, on the day and at the place first above written.

Doc. No. 82
 Page No. 12
 Book No. XV
 Series of 2023

ROLAND P. BOLDAN, JR.
 Notary Public, Jurisdiction
 Office: Odiongan, Romblon
 No. 01012023-01
 UPLD No. 1023
 MORA No. 02276 6/13/22
 IEL No. 274 issued on 1/21/22
 At Pasig City
 PTR No. 0792572 issued on 1/3/23
 at Odiongan, Romblon

ATTENDANCE

(BENEFICIARIES)



ATTENDANCE SHEET

Unit: EXTENSION

Title of Activity: APLAYA COMPONENT 1: IMPROVING FISH PRODUCTION

Date of Activity: February 2, 2024 Time of Activity: 8:00 AM

Data Privacy Statement

Romblon State University respects your right to privacy and is committed to protecting the confidentiality of your personal information. By filing out this form, you are consenting to the collection, processing, and use of the information in accordance with this privacy notice. The information you have provided is used for any or all of the following: access provision, attendance, monitoring, evaluation, documentation, and communication purposes. The University shall only retain the said personal information until it serves its purpose, after which it shall be securely disposed of. Suppose you have concerns and queries on Data Privacy, email dpo@rsu.edu.ph. Rest assured that we will respect and protect the confidentiality and privacy of these data and information as required by the Data Privacy Act of 2012 (R.A. 10173).

No.	Name	Contact Number	Sex	Signature
1	ROMALDO G. RAMIREZ	09626978725	M	[Signature]
2	Ronal D. Larrosa	09276453364	M	[Signature]
3	JOSE M. MAZO		M	[Signature]
4	Jorge Gabriel M. Salvador Sr.	0938227554	M	[Signature]
5	Carlito S. Mercado Jr.	09167013490	M	[Signature]
6	JIMMY M. CANDIDO JR.	09661655247	M	[Signature]
7	ERNIE JADE M. MALLORCA	09657467410	M	[Signature]
8	RENNE L. PARCHANOS	09551449334	M	[Signature]
9	Eduardo G. Libanato	09356631573	M	[Signature]
10	Alan L. Fernando		M	[Signature]
11	Ruben C. Macapum		M	[Signature]
12	JOSEPH JACOB SARICIA	09362137447	M	[Signature]
13	Miguel H. Luripela Jr.	09063529693	M	[Signature]
14	Eduardo Libanato		M	[Signature]
15	Rex MAZO		M	[Signature]
16	Armando	09817326322		[Signature]
17	Alvin Murgano		M	[Signature]
18	WILFREDO ALACABIA	0910062470	M	[Signature]
19	Benito		M	[Signature]
20	KIM DONALD MANGAY		M	[Signature]
21	MARIANO MARCELO	09709328924	M	[Signature]
22	Jill Gonzales	09397121615	M	[Signature]
23	Roel A. Mercado	09623369099	M	[Signature]
24	Ricido W. San Buenaventura	09383590820	M	[Signature]
25	Renato Ignacio		M	[Signature]
26	Nelbert Ian Gaan		M	[Signature]
27	BEA MAKO		M	[Signature]
28	Jovet Fillartos		M	[Signature]
29	Domingo Mallerca		M	[Signature]
30	MARIANO MARCELO		M	[Signature]
31				
32				
33				



ATTENDANCE SHEET

Unit: RSU - STA. MARIA

Title of Activity: APLAYA COMPONENT 1: IMPROVING FISH PRODUCTION

Date of Activity: February 9, 2024 Time of Activity: 8:00 AM

Data Privacy Statement

Romblon State University respects your right to privacy and is committed to protecting the confidentiality of your personal information. By filling out this form, you are consenting to the collection, processing, and use of the information in accordance with this privacy notice. The information you have provided is used for any or all of the following: access provision, attendance, monitoring, evaluation, documentation, and communication purposes. The University shall only retain the said personal information until it serves its purpose, after which it shall be securely disposed of. Suppose you have concerns and queries on Data Privacy, email dpo@rsu.edu.ph. Rest assured that we will respect and protect the confidentiality and privacy of these data and information as required by the Data Privacy Act of 2012 (R.A. 10173).

No.	Name	Contact Number	Sex	Signature
1	Maritess Salvador		F	<i>Maritess Salvador</i>
2	EMMA LABO		F	<i>emma labo</i>
3	Rommel Languera	09102558674	M	<i>Rommel Languera</i>
4				
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ATTENDANCE

(FACULTY & STUDENT)



ATTENDANCE SHEET

Unit: EXTENSION

Title of Activity: APLAYA COMPONENT 1: IMPROVING FISH PRODUCTION

Date of Activity: February 2, 2024 Time of Activity: 8:00 AM

Data Privacy Statement

Romblon State University respects your right to privacy and is committed to protecting the confidentiality of your personal information. By filling out this form, you are consenting to the collection, processing, and use of the information in accordance with this privacy notice. The information you have provided is used for any or all of the following: access provision, attendance, monitoring, evaluation, documentation and communication purposes. The University shall only retain the said personal information until it serves its purpose, after which it shall be securely disposed of. Suppose you have concerns and queries on Data Privacy, email dpo@rsu.edu.ph. Rest assured that we will respect and protect the confidentiality and privacy of these data and information as required by the Data Privacy Act of 2012 (R.A. 10173).

No.	Name	Contact Number	Sex	Signature
1	PATRICK M. GALICHA	09105079656	M	
2	MARILYN M. GALAN	09506491481	F	
3	Ellenir M. Larguezta	09304384129	F	
4	Janetha B. Luterio	09481047488	F	
5	CARLO R. CASTRO	09398893534	M	
6	Alexon B. Lota	09269065352	F	
7	Xerxes B. Lota	09387104511	M	
8	Marika M. Galasao	09120920084	F	
9	Joemay F. Manzy		M	
10	LORILLIE M. FABON	09194461190	F	
11	RAMEL L. FABON	09177058121	M	
12	Santiago C. Magallanes	09760529483	M	
13	Roselyn M. Galasao	09634700330	F	
14	Mary Joy Larguezta		F	
15	Ben Jacob D. Languiza	09708065355	M	
16	Low Penn Kate Masera		F	
17	RODRIGO M. ARRAZ		M	
18	RYNAN G. GALOJ	09684177966	M	
19	Arnold Fillatos		M	
20	REIGNER C. BELACRUZ	0915517209	M	
21				
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ATTENDANCE SHEET

Unit: EXTENSION

Title of Activity: APLAYA COMPONENT 1: IMPROVING FISH PRODUCTION

Date of Activity: February 9, 2024 Time of Activity: 8:00 AM

Data Privacy Statement

Romblon State University respects your right to privacy and is committed to protecting the confidentiality of your personal information. By filling out this form, you are consenting to the collection, processing, and use of the information in accordance with this privacy notice. The information you have provided is used for any or all of the following: access provision, attendance, monitoring, evaluation, documentation, and communication purposes. The University shall only retain the said personal information until it serves its purpose, after which it shall be securely disposed of. Suppose you have concerns and queries on Data Privacy, email dpo@rsu.edu.ph. Rest assured that we will respect and protect the confidentiality and privacy of these data and information as required by the Data Privacy Act of 2012 (RA 10173).

No.	Name	Contact Number	Sex	Signature
1	John Lerry Gaan	09637631806	M	[Signature]
2	Julie Ann L. Mariano	0921-8333-707	F	[Signature]
3	Ivie Mariano	09464245038	F	[Signature]
4	KRISTINE J. PEDRO	09511344135	F	[Signature]
5	Regina G. Gregorio	09197933440	F	[Signature]
6	Risa Mae M. Naligo	09352472194	F	[Signature]
7	Zamora Beth G. Gacula	09669397398	F	[Signature]
8	Evelyn B. Victoriano	09300337904	F	[Signature]
9	Manafe De Juan	09626796555	F	[Signature]
10	lea Jane Galicia	09317626261	F	[Signature]
11	Enilyna Calasao	09508760210	F	[Signature]
12	Wendy Galima	09489924035	F	[Signature]
13	Phines Diaz	0909369140082	F	[Signature]
14	Chara Gate G. Aquino	09552909269	F	[Signature]
15	JUSTINE JEROME GALICHA	09552906794	M	[Signature]
16	Roselyn Ropero	09571341389	F	[Signature]
17	CYRIL M. IMPERIAL	09481866561	M	[Signature]
18	GILBERT D. CLEMENTE	09306270662	M	[Signature]
19	Nemuel Larguera	09453497140	M	[Signature]
20	Mark John Paul Capi		M	[Signature]
21	Roylen Gaan		F	[Signature]
22	Phines Diaz	09369140082	F	[Signature]
23	Raul D. Galicia Jr.	09551449570	M	[Signature]
24	Garla Mae Dacuba	09453308553	F	[Signature]
25	WILFREDO B. MARIN JR	0930618593	M	[Signature]
26	Jonathan C. De Jesus	09276455466	M	[Signature]
27	Angela E. Mateo	09203115216	F	[Signature]
28	Marielyn Francisco		F	[Signature]
29	Fredrick Joseph S. Dona		M	[Signature]
30	Alex Magay		M	[Signature]
31				
32				
33				



ATTENDANCE SHEET

Unit: EXTENSION

Title of Activity: APLAYA COMPONENT 1: IMPROVING FISH PRODUCTION

Date of Activity: February 9, 2024

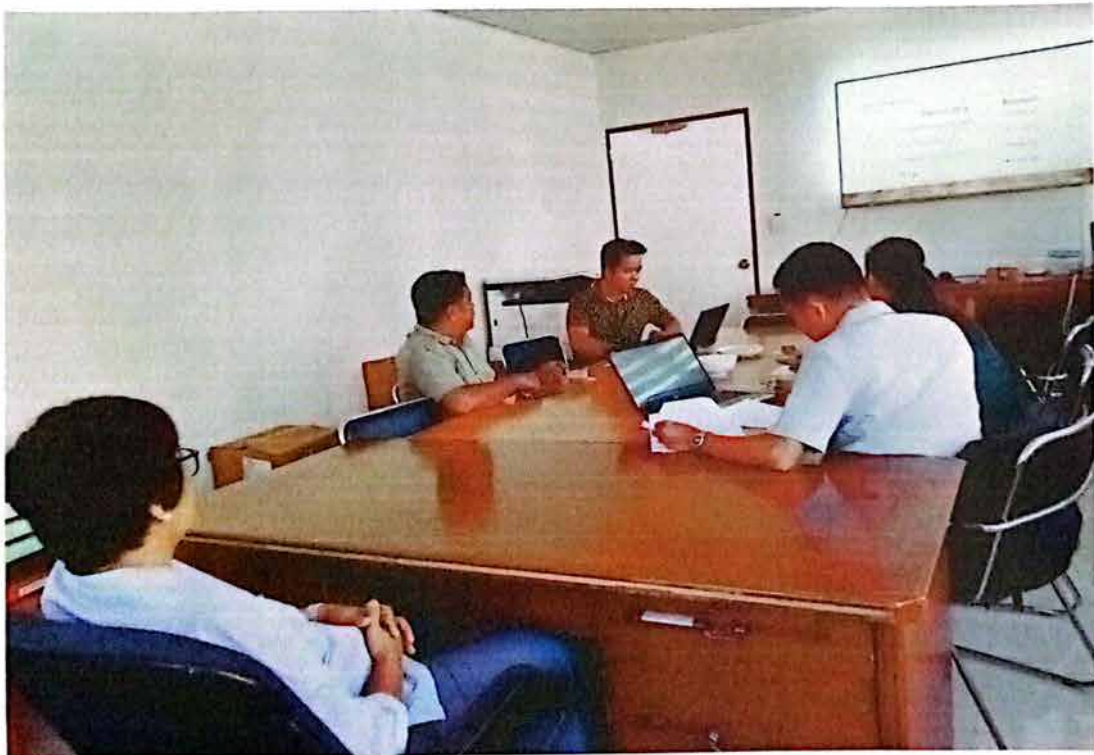
Time of Activity: 8:00 AM

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No.	Name	Contact Number	Sex	Signature
1	Alexon G. Lota	09269005352	F	<i>[Signature]</i>
2	Rayman G. Galis	09685216857	M	<i>[Signature]</i>
3	Elennie M. Lagueria	09304384120	F	<i>[Signature]</i>
4	Roseilyn M. Galasao	0963470030	F	<i>[Signature]</i>
5	Manife M. Galasao	09120320084	F	<i>[Signature]</i>
6	CARLO R. CASTRO	09390893534	M	<i>[Signature]</i>
7	MARY JOY ARGUETA		F	<i>[Signature]</i>
8	Ben Jacobo Y. Lagueria	0970806305	M	<i>[Signature]</i>
9	LOW REAR ROTE MUKCA		F	<i>[Signature]</i>
10	Marilyn M. Galas		F	<i>[Signature]</i>
11	Patrick M. Galicha	09055079656	M	<i>[Signature]</i>
12	Sydney Puppelan	029976956125	M	<i>[Signature]</i>
13	RONALD M. ANDIS		M	<i>[Signature]</i>
14	Arnold Fillarvos		M	<i>[Signature]</i>
15	REIGNER C. LA CRUZ	0915507209	M	<i>[Signature]</i>
16				
17				
18				
19				
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33				

PHOTO DOCUMENTATION



DISCUSSION WITH THE STA. MARIA LOCAL GOVERNMENT UNIT REGARDING THE ROLLOUT OF APLAYA



THE INITIAL SEGMENT OF THE PROGRAM



**GRANTING OF CERTIFICATE OF APPRECIATION TO MR. SAGRADO
MAGALLANES**



PRESENTATION BY MR. ARNULFO MAINIT ON THE INAUGURAL SUBJECT TITLED "FISHPOND PREPARATION FOR TILAPIA FARMING"



GRANTING OF CERTIFICATE OF APPRECIATION TO MR. ARNULFO MAINIT



**PHOTO OPPORTUNITY FEATURING THE MUNICIPAL AGRICULTURIST,
MUNICIPAL MAYOR OF STA. MARIA, AND THE APLAYA RECIPIENT**



DISTRIBUTION OF FISHING PARAPHERNALIAS TO OUR RECIPIENTS





CONVERSATIONS WITH THE EXTENSION DIRECTOR REGARDING CHALLENGES FACED BY ARE RECIPIENTS UNABLE TO AFFORD CONSTRUCTING THEIR OWN FISHPONDS.



BRIEF EXPLANATION TO OUR NEW RECIPIENTS ABOUT THE BENEFITS OF THIS PROGRAM TO THEIR LIVELIHOODS



DURING THE CONSTRUCTION OF A NEW FISHPOND FOR ONE OF OUR RECIPIENTS, ASSISTED BY OUR FISHERIES STUDENTS



MR. ARNULFO MAINIT AND SAGRADO MAGALLANES ARE TEACHING OUR RECIPIENTS, AS WELL AS THE STUDENTS, HOW PROPERLY MEASURE THE FISHPOND THEY WILL BE CONSTRUCTING



STUDENTS SETTING UP THE WATER PATHWAY TO THE FISHPOND



MR. SAGRADO MAGALLANES IS TEACHING OUR RECIPIENTS AND STUDENTS THE PROPER DEPTH AND SHAPE OF A FISHPOND



INDIVIDUAL EVALUATION PER PARTICIPANTS



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MAGSAC 101-1710
E. 9020/18802



EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					5.0

5.0

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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E: 9000-8807



EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					//
3. Sounds					//
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					//
7. Topics					//
8. Knowledge gained					//
9. Participants- Speaker Interactions					//
10. Snacks					//
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					///
2. Venue					///
3. Sounds					///
4. Use of Multimedia Presentation					///
5. Time Management					///
6. Resource Speaker					///
7. Topics					///
8. Knowledge gained					///
9. Participants- Speaker Interactions					///
10. Snacks					///
TOTAL					50

50

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Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					//
3. Sounds					///
4. Use of Multimedia Presentation					///
5. Time Management					///
6. Resource Speaker					///
7. Topics					///
8. Knowledge gained					///
9. Participants- Speaker Interactions					///
10. Snacks					///
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue				✓	/
3. Sounds					//
4. Use of Multimedia Presentation					//
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					//
10. Snacks					/
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					//
3. Sounds					///
4. Use of Multimedia Presentation					///
5. Time Management					/
6. Resource Speaker					//
7. Topics					//
8. Knowledge gained					/
9. Participants- Speaker Interactions					///
10. Snacks					/
TOTAL					30

50

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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					10

Please give your comments and suggestions for the improvement of the next activity.

5.0

Thank you for accomplishing this sheet.



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MANUFACTURING
E: 900018903



EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					///
2. Venue					///
3. Sounds					///
4. Use of Multimedia Presentation					///
5. Time Management					///
6. Resource Speaker					///
7. Topics					///
8. Knowledge gained					///
9. Participants- Speaker Interactions					///
10. Snacks					///
TOTAL					50

5-0

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					//
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					//
6. Resource Speaker					//
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					50

S-O

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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E. 900018801



EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					///
2. Venue					///
3. Sounds					///
4. Use of Multimedia Presentation					///
5. Time Management					///
6. Resource Speaker					///
7. Topics					///
8. Knowledge gained					///
9. Participants- Speaker Interactions					///
10. Snacks					///
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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IC 360261880



EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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Model Number
E: 002018902



EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					✓
2. Venue					✓
3. Sounds					✓
4. Use of Multimedia Presentation					✓
5. Time Management					✓
6. Resource Speaker					✓
7. Topics					✓
8. Knowledge gained					✓
9. Participants- Speaker Interactions					✓
10. Snacks					✓
TOTAL					50

5.0

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management				/	/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL				4	48

49

4.9

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program				/	
2. Venue					/
3. Sounds				/	
4. Use of Multimedia Presentation					/
5. Time Management				/	
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL				12	35

47
47

Please give your comments and suggestions for the improvement of the next activity.

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E. 3020018902



EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					5-0

5-0

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					///
2. Venue					///
3. Sounds					///
4. Use of Multimedia Presentation					///
5. Time Management					///
6. Resource Speaker					///
7. Topics					///
8. Knowledge gained					///
9. Participants- Speaker Interactions					///
10. Snacks					///
TOTAL					50

5.0

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

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5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

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1. Opening Program				/	
2. Venue				/	
3. Sounds				/	
4. Use of Multimedia Presentation				/	
5. Time Management				/	
6. Resource Speaker				/	
7. Topics				/	
8. Knowledge gained				/	
9. Participants- Speaker Interactions				/	
10. Snacks				/	
TOTAL				40	

Please give your comments and suggestions for the improvement of the next activity.

4.0

Thank you for accomplishing this sheet.



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EVALUATION FORM

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5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

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Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management				/	
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL				4	45

Please give your comments and suggestions for the improvement of the next activity.

49
4.9

Thank you for accomplishing this sheet.



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EVALUATION FORM

“Optimizing Aquaculture: Strategies for Enhancing Fish Production and Sustainability”

Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program				/	
2. Venue					/
3. Sounds				/	
4. Use of Multimedia Presentation					/
5. Time Management				/	
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL				12	35

47
4.7

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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EVALUATION FORM

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Name: _____ (Optional)

Direction: Kindly evaluate the following aspect of the seminar by using the scale below. Encircle the code that corresponds to your choice.

5 – Excellent 4 – Very Satisfactory 3 – Satisfactory 2 – Fair 1 – Poor

Indicator	1	2	3	4	5
1. Opening Program					✓
2. Venue					✓
3. Sounds					✓
4. Use of Multimedia Presentation					✓
5. Time Management					✓
6. Resource Speaker					✓
7. Topics					✓
8. Knowledge gained					✓
9. Participants- Speaker Interactions					✓
10. Snacks					✓
TOTAL					50

50

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.



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1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management					/
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL					50

5.0

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Thank you for accomplishing this sheet.



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EVALUATION FORM

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1. Opening Program					/
2. Venue					/
3. Sounds					/
4. Use of Multimedia Presentation					/
5. Time Management				/	
6. Resource Speaker					/
7. Topics					/
8. Knowledge gained					/
9. Participants- Speaker Interactions					/
10. Snacks					/
TOTAL				4	45

49
4.9

Please give your comments and suggestions for the improvement of the next activity.

Thank you for accomplishing this sheet.

SUMMARY OF EVALUATION



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SUMMARY OF EVALUATION RESULTS

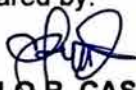
APLAYA COMPONENT 1: IMPROVING FISH PRODUCTION “OPTIMIZING AQUACULTURE: STRATEGIES FOR ENHANCING FISH PRODUCTION AND SUSTAINABILITY”

RESPONDENT	RATING
1	5.0
2	5.0
3	5.0
4	5.0
5	5.0
6	5.0
7	5.0
8	5.0
9	5.0
10	5.0
11	5.0
12	5.0
13	5.0
14	5.0
15	5.0
16	5.0
17	5.0
18	4.9
19	4.9
20	4.8
21	4.7
22	5.0
23	5.0
24	4.0
25	5.0
26	4.9
27	4.7
28	4.5
29	5.0
30	4.9
AVERAGE	4.91 EXCELLENT

*The program and activity during the Seminar Workshop of Aplaya Component 1: Improving Fish Production were rated excellent.

*No comment and suggestion from evaluators

Prepared by:


CARLO R. CASTRO
Lead Proponent

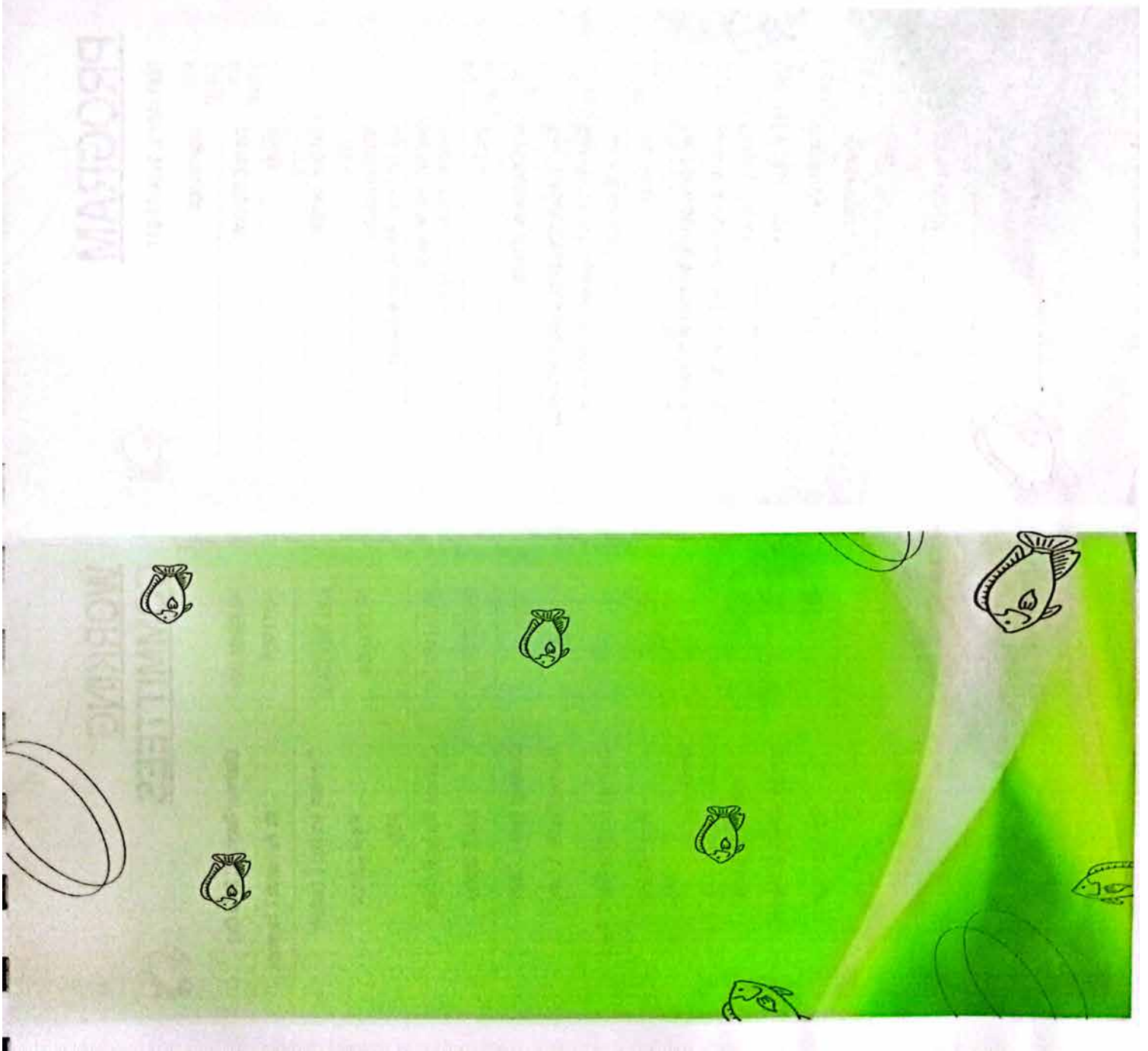
PROGRAM

APLAYA COMPONENT 1: IMPROVING FISH PRODUCTION

OPTIMIZING AQUACULTURE SYSTEMS
FOR ENHANCING FISH PRODUCTION AND
SUSTAINABILITY

February 2 & 9, 2024

Santa Maria, Romblon



PROGRAM

FEBRUARY 2, 2024: FRIDAY

8:00-
8:30 AM

REGISTRATION

8:30-
9:30 AM

OPENING PROGRAM

PRAYER

Recorded

NATIONAL ANTHEM

Recorded

WELCOME ADDRESS

Engr. Ramel Fabon, ABE - Municipal Agriculturist

INSPIRATIONAL MESSAGE

Hon. Lonille M. Fabon - Municipal Mayor

9:30-
9:45 AM

SNACKS

9:45-
9:55 AM

INTRODUCTION OF SPEAKER

Topic 1: FUNDAMENTALS OF BACKYARD FISH FARMING

9:55-
11:00 AM

Speaker: Mr. Sagrado C. Magallanes - NSC, RFP Research
Chairman, RSU Sta. Maria Campus

11:00 AM-
12:00 PM

LUNCH BREAK

Topic 2: FISH POND PREPARATION FOR TILAPIA FARMING

12:30-
2:00 PM

Speaker: Mr. Arnulfo B. Manit Jr. - RFP Fisheries Technician,
Municipality of Odonggan

FEBRUARY 9, 2024: FRIDAY

8:00-
8:30 AM

REGISTRATION

8:30-
9:15 AM

OPENING PROGRAM

PRAYER

Recorded

NATIONAL ANTHEM

Recorded

WORKSHOP

9:30-
11:00 AM

POT-UP OF HOME FISHPOND

WORKING COMMITTEES

PROGRAM AND

INVITATION

HALL AND STAGE

DECORATION

SECRETARIAT/

REGISTRATION

TECHNICAL

SUPPORT

FOOD

Chairman: Reigner C. De La Cruz

Mr. Ben Jacob Y. Larueta

Chairman: Annaliza E. Leuterio

Marife Galasso

FSO

Chairman: Marilyn M. Galan

June B. Mirares

Chairman: Carlo R. Castro

Member: Reynan Galos

Chairman: Lou Renz Kate G. Musca

Patrick Galucha

Member: SSC

Chairman: Alezon G. Lola

Member: Roselyn M. Galasso

Ellenie M. Larueta

TERMINAL REPORT

CERTIFICATE



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CERTIFICATE OF RECOGNITION

is awarded to

Mr. Sagrado C. Magallanes

for serving as the RESOURCE SPEAKER. During the APLAYA COMPONENT 1: IMPROVING FISH PRODUCTION seminar workshop held on February 2, 2024.

Romblon State University is truly indebted for his shared skills and experiences, contributing to the success of the extension program-APLAYA.

Given this 2nd day of February 2024 at the Municipal hall of Sta. Maria, Romblon

JOEMAR F. MANZO, DPA
Campus Director

ORFELINA I. MANZO, Ed.D.
Director, ETASO



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Given this 2nd day of February 2024 at the Municipal hall of Sta. Maria, Romblon

JOEMAR F. MANZO, DPA
Campus Director

ORFELINA I. MANZO, Ed.D.
Director, ETASO

PRINTED PPT PRESENTATION

MGA DAPAT ISAALANG-ALANG SA PAGBIBIYAHE NG SEMILYA

Ang tamang pang-gagalingan ng magandang semilya.
 Aduhing nakondisyon ang semilya bago lyahe.
 Ang angkop na dami ng binhi na dapat sa bawat metro do.
 Ang binhi 24 oras pagkatapos wala.
 Ang angkop na dami ng binhi sa plastic yan ayon sa sukat ng



MGA DAPAT ISAALANG-ALANG SA PAGBIBIYAHE NG SEMILYA

Ang bawat plastic bag (20" x 30" x 0.001") ay puwedeng maglaman:

- Mabius na tubig (2-3 litro)
- Semilya

Ang halagang (cost) na semilya para sa bawat plastic bag ay puwedeng maglaman:

Ang angkop na dami ng binhi na dapat sa bawat metro do.
 Ang binhi 24 oras pagkatapos wala.
 Ang angkop na dami ng binhi sa plastic yan ayon sa sukat ng

Size	Price
Size 12	1,500
Size 24	1,000
Size 22	1,000
Size 20	750
Size 17	550
Size 18	250



MGA DAPAT ISAALANG-ALANG SA PAGBIBIYAHE NG SEMILYA

Ang 2-3 grams na asin sa bawat litro ng tubig (6-9 bag) para magsilbing disinfectant, antifungal at regulation ng semilya.
 Regulation is the process of maintaining an internal salt and water in fish.
 15 PSI o hanggang sa maximum ng plastic bag na ang talian nang rubber band.
 Ang dalawang plastic bag (doble) para maiwasan ang is nito at hindi magpakamatay ng isda.
 Akailangan (depende sa init ng panahon), ng dinurog na yelo sa ibabaw ng plastic bag na may



FEEDING HABIT AND BEHAVIOR OF TILAPIA

An understanding of the natural feeding of fish is important in order to produce a nutritionally balanced diet.

- Omnivore
- Voracious eater
- Daytime feeder and there's a little or no feeding activity at night.
- Eat at the water surface or at the first level of the water column of the pond.
- Flexible feeding habit.
- appetite is poor when temperature is low



FEEDING RATE

Refers to the amount of feed being fed daily to fish.

Factors that affect feeding rate:

Size of fish - small fish requires frequent feeding.
 Availability of natural food - If sufficient lesser amount of feeds will be given.
 Availability of fish food - Give adequate amount of feeds.
 Water quality - fish have no appetite to eat (anergic) if water Quality is sub-optimum.



Determination Of Daily Feed Requirement (DFR)

Daily Feed Requirement (DFR) Formula

$$= ABW \times \text{total stocks} \times \text{feeding rate} \times \% \text{survival}$$

EXAMPLE :

$$\begin{aligned} \text{Total stocks} &= 50,000 \text{ pcs} & \text{DFR} &= 50g \times 50,000 \text{ pcs} \times 6\% \times 90\% \\ \text{Average BW} &= 50g. & &= 135,000g \text{ or } 135 \text{ kgs. or } 5.4 \text{ bags} \\ \text{Feeding rate} &= 6\% & & \\ \% \text{ Survival} &= 90\% & & \end{aligned}$$

Water Quality and fish health management on Aquaculture production.

Water quality reduces fish health and affects the health and production of the fish. Fish diseases usually occur after exposure to stress conditions due to sub-optimum water quality parameters.



Prevention of fish disease is accomplished through good water quality management, nutrition, and sanitation.



Optimum Water Parameters for Tilapia

Water Parameter	Optimum range for Tilapia
Temperature	28-32°C
Dissolved Oxygen	5ppm
Ammonia	<0.02
pH	6.5-9.0
Alkalinity	50-150 ppm
Turbidity	30-45 cm

Water Quality is divided into different characteristics:

- a. Physical
- b. Chemical
- c. Biological



Physical

Refers to the water parameters which can directly see, feel, smell and taste



1. COLOR

The color of the water is associated with the density of predominant algae or phytoplankton and zooplankton or the color of dissolved particles suspended in the water



Water for fish culture should be clear, colorless, or light greenish in color.

Water of golden brown color is due to the abundance of diatoms.

Water becomes greenish in color when plankton is more abundant. Brown color is due to iron and mud color due to grains.

Water has a black color, blackish, or brown, red, yellow, etc. in fish culture. This color is due to the presence of more plankton.



Green Water

Brown - Nitrite brown Water

Calcium Particle

Growth of Algae (Black)

TEMPERATURE

- ✓ Temperature is the most important of all physical variables that affect dissolved oxygen concentrations
- ✓ Affects the development, growth, health, and biological processes of fish.



Effects of temperature on fish

Slowing down the development of tilapia eggs, reducing the growth of juveniles and older fish, delaying and even preventing their maturation and spawning.

Reducing their food intake and even stopping it completely, increasing their susceptibility to infections and diseases, reducing hatch success, and a rise in fry/larvae diseases often results from extreme fluctuations or temperatures outside the normal range for the species.



Methods of measuring temperature



3. TURBIDITY

- refers to the decreased ability of water to transmit light caused by suspended particulate solid



Water turbid with plankton



Water turbid with clay particles

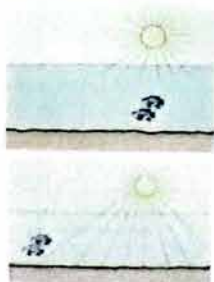
EFFECTS OF SUSPENDED SOLIDS

Prevent light penetration for photosynthesis

Inversely affect pond productivity

Increase risk of denoxygenation

Inversely affects fish population



EFFECTS OF SUSPENDED SOLIDS

- Fishes are easier to catch in the moderately turbid pond
- Coating of eggs by suspended solids can reduce the efficiency of oxygen uptake and increase egg mortality
- **high mineral turbidity can affect fish directly** by injuring their breathing organs, reducing their growth rate, or preventing their reproduction
- Irritation on the gill filament, tend to clog gills, and excessive mucus production
- Destroy the community of the bottom organism

WAYS OF MEASURING TURBIDITY

Scientific method: Secchi disc

Use to evaluate the total productivity condition of the pond

It is particularly useful in green colored ponds to estimate plankton turbidity



THE FOLLOWING SCHEME MAY BE USED IN EVALUATING SECCHI DISC VISIBILITIES:

Secchi Disc reading (cm)	Comments	Remedy
< 20	Pond too turbid	water replenishment
20-30	Turbidity becoming too excessive	Water replenishment
30-45	Pond is in good condition	
45-60	Phytoplankton is becoming scarce	Fertilization
> 60	Water is too clear. Inadequate productivity and danger of aquatic weed problem.	Fertilization

hemical

- refers to water chemistry or the reaction of parameters in the water

DISOLVE OXYGEN

√Represented abundantly in the atmosphere but dissolved rapidly in water



DISSOLVED OXYGEN LEVEL FOR FISH

0- 2	lethal if prolonged	use of mechanical aeration i.e paddle wheel, air blowers
3-4	Poor health susceptible to disease	Water replenishment
5-10	Ideal (desirable range)	
>10	may cause gas bubble disease	Water replenishment Flushing

Sources of Oxygen

- Air Diffusion from the atmosphere
- Dissolved oxygen produced as a waste product of photosynthesis from phytoplankton and other aquatic plants
- Man-made aeration

WAYS OF MEASURING DISSOLVE OXYGEN



Mechanical Aerators



Perforated hose



AMMONIA

A colorless gas with a characteristics pungent smell. It dissolves in water to give strongly alkaline.

Considered to be the second most important parameter in pond

As a general rule, the higher the pH and temperature the higher the percentage of total ammonia in the toxic un-ionized form



Sources of Ammonia

- Metabolic excreta by aquatic organism and during transportation.
- Heavy application of organic matters
- Excess, uneaten feeds
- Death of phytoplankton blooms



Fish poop



Phytoplankton bloom



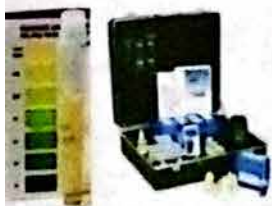
Organic fertilizer

Adverse effects of ammonia in the growth of fish:

- ✓ the number of deformed eggs increased with increasing ammonia concentration
- ✓ Sub-lethal exposures cause slow growth
- ✓ Decreases resistance to diseases
- ✓ Reduce oxygen uptake caused by gill damage
- ✓ Pathological changes to various tissues and organs

WAYS OF MEASURING AMMONIA

Scientific way- use of ammonia test kit



Practical way- through observation i.e. the color of the water is blackish



TECHNIQUES TO REDUCE THE EFFECT OF AMMONIA (WATER MANAGEMENT)

1. Aeration/oxygenation
2. Dilution by water change during culture
3. Keen monitoring of feed intake and water parameters
4. Microbial denitrification
5. Biological removal of ammonia i.e. filter feeder, macrophytes



pH

defined as negative logarithm of hydrogen ion concentration (simply measures the degree or intensity of the acidity or alkalinity)

The pH of most productive natural waters that are unaffected by pollution is normally in the range of 6.5 to 8.5 at sunrise

0-3	Acid death point	Water replacement
3-5	No reproduction	Liming
5-6	Slows growth of fish	
6.5-9	Desirable for fish production	
10-14	Alkaline death point	Water replacement Flushing Liming



WAYS OF MEASURING pH

Practical Way

Tasting of the water "dila meter" - if the water tastes sour it is acidic

Knowing the source of water - acidic waters come from swamps, etc.

Frequent stepping on the water, the pants and nails turn to rustic color

Scientific Way



TREATMENT OF ACID WATER

Liming- addition of calcium based

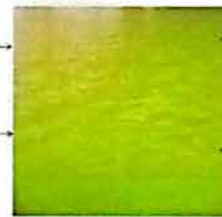
Salt water - seawater may be flushed through ponds in coastal waters to neutralize acidity.



BENEFITS OF GOOD WATER COLOR

Stabilizes water

Pellet intake



Transparency ↓

Dissolved oxygen ↑

Improved Tilapia Breeds in the Country
BFAR Improved Breed



Fi tilapia
product of genetic program that emanates from GIFT project
of improvement after 5
generation of selection

- BEST or Improved Brackishwater Enhanced Selected Tilapia
- Tilapia strains suitable for culture in brackishwater environment
- tolerates 25 to 30ppt

- Cold tolerant tilapia
- Tilapia strains suitable for culture in high elevation cool island waters (e.g. IAR)



- DAR or Developed Adaptable Red tilapia
- A hybrid developed from different strains, BFAR, CLSU, IAC, and Private Sector
- Tolerates up to 30ppt
- 30g advantage over old BFAR Red tilapia



- Molibicus tilapia
- A hybrid tilapia developed by systematic crossings and backcrossings of *O. mossambicus* and *O. niloticus*
- Grows well at high water salinity



- GIFT Malaysia
- Originally developed from Genetic Improvement of Farmed Tilapia Project
- Re-introduced in PH for field validation



- GenoMar Supreme Tilapia
- Another GIFT-derived strain
- Key characteristics are its faster growth rate, saline tolerance, and fillet yield



- FaST or Freshwater Aquaculture Center Selected Tilapia
- Developed at CLSU-Freshwater Aquaculture Center through Fish Genetics Program
- Now on its 42nd Generation of



- SEAFDEC Strain
- Developed based from mass selection of domesticated Thai Nile tilapia or Chitralada strain

