PROJECT PROFILE

PROJECT PROFILE
JIABONG AQUACULTURE PRODUCTION AND TECHNOLOGY CENTER (JAPTC)
Jiabong Western Samar

I. OBJECTIVES:

General objectives:

- Rehabilitate 21 hectares of potential area for fishpond and other aquaculture ventures;
- Utilize the area for food production and to showcase various applicable aquaculture technologies.

Specific objectives:

- Rehabilitate and utilize 11 hectares of the area for "Bangus" fry - fingerling production, to augment volume of quality fish seed requirement of fish cage and fishpond operators for grow-out production;
- Establish demonstration set-ups of applicable aquaculture technologies at the remaining area of 11 hectares to showcase operational details, innovations and advances;
- Conduct regular hands-on training program for OJTs and potential practitioners for possible replications; and
- Promote alternative culture options, therefore opening wider opportunities for profitable undertakings through aquaculture.

II. DESCRIPTION OF THE PROJECT:

BRIEF BACKGROUND:

Project address:	Jiabong, Western Samar
Total land area:	21 hectares
Date established:	October 6, 1975
Established /Acquired thru:	Survey of Lot 2375 by the Bureau of Lands for the **Bureau of Fisheries and Aquatic Resources**
Status of Land ownership:	Reserve for BFAR (applied for gratuitous permit)
Previous operation and Devt.:	The area was developed and operated into fishpond by BFAR Regional Office 8 since 1975 and further by the Regional Fisheries Training Center (RFTC) until 2014.

CURRENT STATUS:

By virtue of FOO# 02 dated January 05 series of 2015, RFTCs with its facilities were integrated to the Regional Offices of BFAR.

Thus, the facility is now under the supervision of the Regional Director of the Bureau of Fisheries and Aquatic Resources, Regional Office 8 and currently called the **JIABONG AQUACULTURE PRODUCTION AND TECHNOLOGY CENTER**

Station Potentials:

- With the huge area covered by the station, it promises considerable production and an enormous potentials to accommodate aquaculture related technologies in the coming years;
- Considering the station's location being along with the national highway, displaying such future implementations for enthusiasts' and practitioners' observations, isn't hard to do;
- Accessible to transportation, for easy delivery of inputs and would be outputs;
- Accessible to hands-on trainees, for interested individuals, groups and OJT students;
- Strategically located almost at the center of the region.

Parameters

- Soil type: clay loam
- Water source: Brackishwater
- Salinity range : 20-30ppt
- Water temp. range 25-30°C

Vision:

Institution guided by the principle of social equality and a sound environment. Technically equipped with relevant skills and capabilities; locally instrumental in attaining the regional and national vision for food security, and reduction of poverty incidence, through increased fish production and strengthened fish-based livelihood opportunities, via continuous support and promotion of urban and rural aquaculture, practicing a nature-based friendly advances.

Mission:

- Sustain, strengthen and demonstrate typical fish-based livelihood and production programs, which are environmentally appropriate and technically applicable, for private replications;
- Upgrade manpower professionalism and technical competence through trainings, seminars, short term studies and or other equally related means;
- Formulate and design Learning modules for private groups or individuals, OJTs and other enthusiasts to promote urban and rural aquaculture through practical and hands-on learning;
- Provide quality fish seeds to substantially augment and sustain local and regional fish production.

Major Thrust

FISH PRODUCTION AND TECHNOLOGY DEMONSTRATION

Station which is primarily observant and practicing nature-based friendly advances, to locally attain the regional and national vision for food security, and reduction of poverty incidence, through increased fish production and strengthened fish-based livelihood opportunities, via production of quality fish seeds and technology demonstrations.

Minor Thrust

TRAINING AND EXTENSION

As Training and Learning venue for students, potential technology practitioners or replicators.

Current operation

-

The station has officially started operating on February 2015 under BFAR 8. The focus of work was to initially rehabilitate the 11 hectares with a 5 smaller pond compartments and 2 bigger compartments for milkfish fry to fingerling production. With the workforce of 7 Jos, 1 technical person assigned for supervision and 2 security guard.

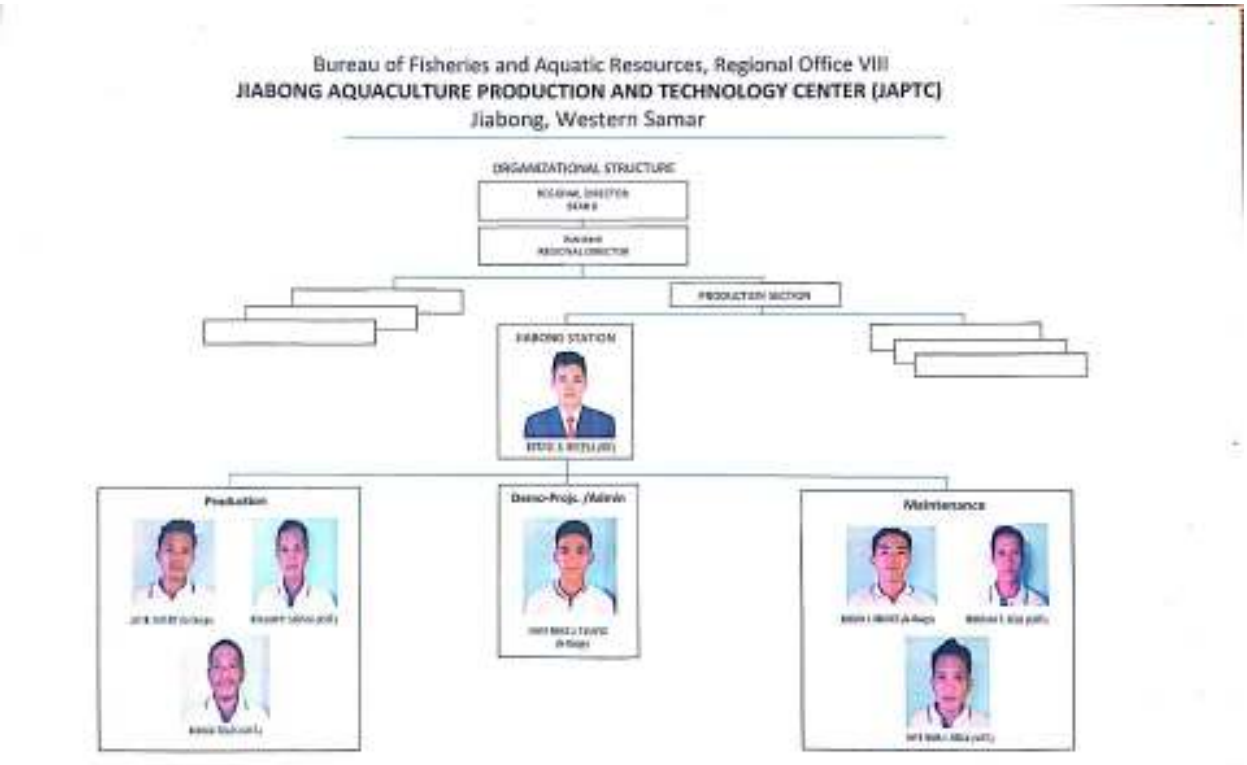
Initial stocking of about 500,000 fry was on May 14, 2020, and followed by the 2nd stocking on June 06, 2020 with 700,000 pcs of Bangus fry will be stocks. By 2020, the station will be targeting to stock 1.5 million fry for the year round and to recover about 1.05 million fingerlings for distribution.

Also introducing of mangrove crab nursery in the station have been done as a techno demo for the LGUs, private sector, NGAs, academes and etc. 500 sq. m are being used for the mangrove crab culture in the station. The aim is to produce a good quality mangrove crablets that will be given to the beneficiaries.

III. METHODOLOGY/STRATEGY OF OPERATION:

For facility operation:

- The station consider the herein structure of authority, management and pool of human resource to accordingly implement the projects and programs set for the station.

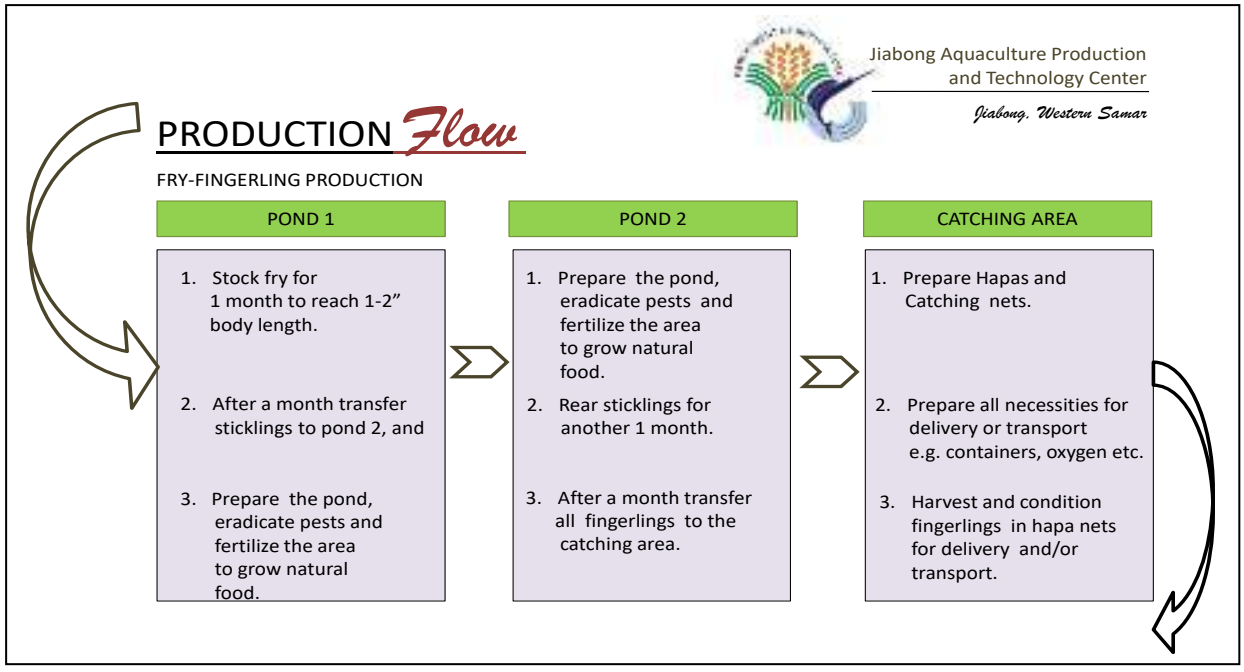


Personnel involved (%)

NAME	PARTICIPATION	DIV/SEC	% OF INVOLVEMENT
1. RD/Representatives	Management /Advisory	BFAR Reg. office	4%
2. Project leader/OIC	Tech. Supervision/monitoring	Jiabong station	30%
3. Acquaculturist (2)	Technical implementation	-do-	30%
4. Job Orders (9)	Daily task implementers	-do-	30%
5. Project evaluators	Tech. monitoring/evaluation	BFAR Reg. office	2%
6. COA/Reg'l. inspectors	Project cost Evaluators	BFAR Reg. office	2%

Production strategy:

- The station considers a modular system of Fingerling production as herein illustrated, to assure a year round supply of quality fish seeds.



- The station operates within the bounds of office's budget allocation, **Php 2,393,999.00** for the current year 2020.

- The station shall implement demonstration, verification and or other related special projects, identified applicable for implementation region-wide.

- The station chief with the approval of the Regional Director will submit proposals inviting interested agencies to invest in demonstrating their technology related to fisheries at the station's site and vicinity.

- In one way or another promote aquaculture production as basic strategy for food security.

PROPOSED DEVELOPMENT (3 YEARS)

While the Philippine population has dramatically ascend to 1.73% annual growth rate, making the country's population to 100,096,496, with a density of 334 individual per km^2 that had ever recorded in 2014 (NSO), the country's food productivity is becoming more and more stagnant. To such reason that few of the technologies being utilized and replicated for food production are becoming ineffective and unproductive due to erratic climate conditions.

With the recent necessity of food to support the ever growing population, urgent efforts to complement the annual food stock deficit is a need, which if possible shall be done in a double or in faster means and effectual initiatives. Occurrence of these phenomenal environmental disorders worsens food production in all aspects. The unprecedented extreme and variability of weather condition such as temperature rise, prolonged and heavy precipitation, frequent typhoon occurrence at increasing intensities, water acidification and other effects that correlate to this condition, impede most of the aquaculture target production.

With these reasons therefore, should the government intensify the mobilization of its food production centers utilizing technological innovations conforming to climate variations. The necessity of these modifications aimed at mitigating the impacts of climate changes, can be demonstrated and verified in these centers and be introduced later to local inducers, if therefore proven effective.

Thus in particular, **Jiabong Aquaculture Production and Technology Center** under BFAR 8 will be utilized and further be developed and improved for the purpose.

Schedule of **Site development**

Program of Activities	TIME FRAME												REMARKS
	YEAR 01 (phase 1)				YEAR 02 (phase 2)				YEAR 03(phase 3)				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
1. Preparation of requisite documents and submission of application	x												
2. Processing & approval	x												
3. Area development 5 hectare pond area		x	x	x									
4. Area development					x	x	x	x					
5. Area development									x	x	x	x	
6. Project evaluation			x	x		x		x		x		x	

Schedule of **Technology Implementation**

Program of Activities	TIME FRAME												REMARKS
	YEAR 01				YEAR 02				YEAR 03				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
1. Bangus fingerling production					x	x	x	x	x	x	x	x	
2. Technology demonstration /verification					x	x	x	x	x	x	x	x	
3. Conduct of Hands-on trainings						x		x		x		x	

Propose funding Requirement/PAPs

Program/Activities	Funding requirement (by phase)		
	Year 01	Year 02	Year 03
1. Fishpond rehabilitation and improvement	5,000,000	5,000,000	5,000,000
2. Water supply system	180,000	-	-
3. Fish center (dispensing area, with holding tanks , aeration system and function area)	-	900,000	-
4. Production monitoring equipment (refractometer, PH meter, DO meter, others)		40,000	40,000
5. Farm equipment	120,000	120,000	120,000
6. Office equipments (computer sets, printers, LCD projector, tables/chairs, air conditioning sets, etc.	-	150,000	160,000
7. Production inputs and materials (feeds, fertilizers, pest eradicants, nets etc.)	-	2,000,000	3,000,000
8. Information and communication equipment (TV set and internet connection)	-	80,000	80,000
9. Demonstration projects (mangrove crab soft-shelled production, Mangrove crab production, aquasilviculture production and other applicable technologies.		200,000	200,000
10. Hands-on training		150,000	150,000
11. Service vehicle (motorcycle)	80,000	-	80,000
TOTAL	5,380,000	8,640,000	8,830,000

Propose funding share breakdown

Program/Activities	Funding source								
	RFO			CO			OTHERS		
	Year 01	Year 02	Year 03	Year 01	Year 02	Year 03	Year 01	Year 02	Year 03

1. Fishpond rehabilitation and improvement	3M	3M	3M	2M	2M	2M	-	-	-
2. Water supply system	100,000			80,000					
3. Fish center (dispensing area, with holding tanks , aeration system and function area)	-	400,000	-	-	500,000	-	-	-	-
4. Production monitoring equipment (refractometer, PH meter, DO meter, others)	-	25,000	25,000	-	-	-	-	15,000	15,000
5. Farm equipment	70,000	70,000	70,000	50,000	50,000	50,000	-	-	-
6. Office equipments (computer sets, printers, LCD projector, tables/ chairs, air conditioning sets, etc.)	-	150,000	100,000	-	-	60,000	-	-	-
7. Production inputs and materials (feeds, fertilizers, pest eradicants, nets etc.)	-	2m	3m	-	-	-	-	-	-
8. Information and communication equipment (TV set and internet connection)	-	80,000	30,000	-	-	-	-	-	50,000
9. Demonstration projects (mangrove crab soft-shelled production, Mangrove crab production, aquasilviculture production and other applicable technologies.	-	100,000	100,000	-	-	-	-	100,000	100,000
10. Hands-on training	-	100,000	100,000	-	-	-	-	50,000	50,000
11. Service vehicle (motorcycle)	80,000		80,000	-	-	-	-	-	-
TOTAL/year							**-**		

	3.250 M	**5.925 M**	**6.505 M**	**2.130 M**	**2.550 M**	**2.110 M**		**165,000**	**215,000**
TOTAL FOR 3 YEARS/source	**15,680,000.00**			**6,790,000.00**			**380,000.00**		
OVERALL TOTAL FOR 3 YEARS	**22,850,000.00**								

PROPOSED PRODUCTION:

PRODUCTION CALENDAR/YEAR:
(FOR MILFISH FRY TO FINGERLING PRODUCTION)

ACTIVITIES	A YEAR OPERATION											
	Q1			Q2			Q3			Q4		
Input procurement	x			x			x			x		
Pond preparation	x			x			x			x		
Stocking		x			x			x			x	
Culture period		x	x		x	x		x	x		x	x
Harvest/delivery			x			x			x			x

ASSUMPTIONS (A HECTARE COMPUTATION)
(For a fully developed fishpond equipped with the needed support production accessories, and in favorable culture condition)

Stocking : @ 20pcs. / m^2 or 200,000 pcs./hectare
Recovery rate : 50%
Average size : 3”
Recovery in pcs. /crop : 100,000 x 4 croppings
Annual Production/year/hec. : 400,000 pcs.
Prevailing market price/inch : Ph 01.00
Annual profit /hec. : Ph 1,200,000.00
Annual profit for 8 has. as proposed : Ph 9,600,000.0

Monitoring:

Monitoring, evaluation and reporting shall be done as scheduled by a designated regional team, noting the progress of the on-going project implementation. The team in same way shall furnish an updated status report to the Regional Director or to its representative, for information, reference and or appropriate remarks.

ANNEXES

1. Google earth image

The station's existing fishpond area subject for rehabilitation and improvement @ Jiabong Western, Samar.

2. Google earth image

Showing the approximate reserved area, with the portion for potential expansion and development.

3. Google earth image

Showing the pond 1, currently utilized for Bangus fry to fingerling production

4. Google earth image

Showing the pond 2, currently utilized for Bangus fry to fingerling production

5. Google earth image

Showing the pond 3, currently utilized for Bangus fry to fingerling production

6. The station's office

7. One of our activity (sorting of fingerlings for delivery)

PROFILE OF JIABONG AQUACULTURE PRODUCTION AND TECHNOLOGY CENTER

Jiabong Aquaculture production and Technology Center (JAPTC) is one of the stations of Bureau of Fisheries and Aquatic Resources-VIII (BFAR-8). It is located in Brgy. Alejandrea, Jiabong, Samar with a total area of 21 hectares. It was developed and operated into fish pond since 1975 until 2014 by the Regional Fisheries Training Center (RFTC). By virtue of FOO# 02 dated January 05 series of 2015, RFTCs with its facilities were integrated to the Regional Offices of BFAR. Thus, the facility is now under the supervision of the Regional Director of the Bureau of Fisheries and Aquatic Resources, Regional Office 8.

BFAR-JAPTC is both a training and technology demonstration facility, with the minimum economic scale and intensive farming features found in commercial operations. And with the increasing demand on food security in the region, the stations also aims to support the production and supply of Milk fish fingerlings in Eastern Visayas especially the locally identified and targeted fisherfolk beneficiaries both in inland and marine production.

The station will also be the first shrimp school and will serve as the pilot "DA-BFAR Shrimp School" that will be a TESDA accredited as training and assessment center. This school is envisioned to increase the production of high-quality shrimps and improved shrimp product marketability in both local and international markets. Specifically, a TESDA competency-based training curriculum will be developed and adapted by the shrimp school.

The station also has a processing plant that serves a training and learning venue for students, potential technology practitioners or replicators specially the fisherfolk association. As a seafoods post-harvest livelihood-hub,

The Station is primarily observant and practicing nature-based friendly advances, to locally attain the regional and national vision for food security, and reduction of poverty incidence, through increased fish production and strengthened fish-based livelihood opportunities, via production of quality fish seeds and technology demonstrations.

Table 1. 9 personnel/manpower (2 regular and 7 Jos) who maintain and implement to operationalize the station.

Position Title	Tenure	Years of service
Aquaculturist II	Regualr	7
Aquacultural Technologist I	Regular	8
3 Aqua Technician	JO	8
2 Farmworker	JO	15
2 Laborer	JO	10

Table 2. Production facilities and building inside the station.

Facility	Description
Office Building	2-storey, 200m^2 flr area
Processing Building	150m^2 flr area
Staff House	100m^2 flr area
Storage House	25m^2 flr area
Milkfish Production	10 Hec, 6 compartments
Shrimp Production