

STATION PROJECT PROFILE

MULTI SPECIES HATCHERY **Panas, Sinandigan, Ubay, Bohol**

Multi Species Hatchery Project located at Sitio Panas, Sinandigan, Ubay, Bohol (10° 02' 33.7"North, 124° 31' 45.7"East) was established last December 26, 2010 and launched last April 18, 2011. The project has a total land area of 1.9 hectares acquired from the Department of Agriculture – Ubay Stockfarm (DA-USF), Ubay, Bohol through Usufruct Agreement between the Department of Agriculture, Region VII and Bureau of Fisheries and Aquatic Resources, Region V (BFAR- RO). The project was funded by the Department of Agriculture through the Bureau of Fisheries Central Office and implemented by BFAR-7 Regional Office with the following cooperating agencies: Department of Agriculture, region VII, Ubay Stock Farm, Ubay, Bohol and the Local Government Unit of Ubay, Bohol.

Generally, the establishment of the project was aimed to meet the juveniles and fingerlings projected demand for Aquaculture and Mariculture production in the Region, particularly in Bohol and other parts of the country in sustainable level.





STATION MANDATES



Specifically, it sought to:



1

Establish a complete physical structures and support facilities for Seaweeds, Siganid, Pompano, Milkfish and Blue Swimming Crab Hatchery



2

Enhance export potentials on Seaweeds, Siganid, Pompano, Milkfish and Blue Swimming Crab as dollar earner



3

Encourage more farmers and investors for Seaweeds, Siganid, Pompano, Milkfish and Blue Swimming Crab production



4

Proliferate ancillary industries



5

Increase livelihood and job opportunities



6

Increase fisheries production



7

Uplift the socio-economic conditions of the community

**COMMODITY TARGET**

	No. of Fry/Tiny/Juveniles	Unit	Remarks
Siganid	50,000	pcs.	Annually
Pompano	50,000	pcs.	Annually
Milkfish	2,000,000	pcs.	Annually
Blue Swimming Crab	200,000	pcs.	Annually
Seaweed	1,200	kg.	Annually

MSH STATION



Administrative Building (new)



Administrative Building (old)



Phycology Laboratory



Guest House Building

MSH STATION

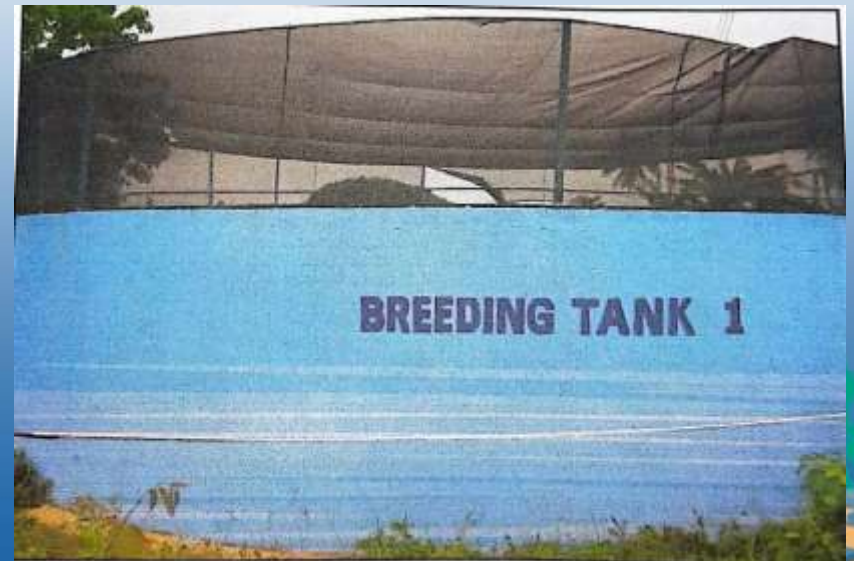


Warehouse Building



Seaweeds Laboratory

MSH STATION



MSH STATION



MSH STATION



MSH STATION



HATCHERY AERIAL VIEW



PERSONNEL COMPLEMENT

The project is composed of twenty six personnel complement, five permanent and twenty one contractual assigned with different duties and responsibilities as shown in Table 1.

Table 1. Personnel Complement of Multi Species Hatchery ,Seaweed Laboratory and Nursery:

Qty	Designation	Specific Duties/Area of Assignment
1	Center Chief	➤ Oversee the overall operation
1	Technical /Head Production In charge	<ul style="list-style-type: none"> ➤ Supervise and perform technical support activities ➤ Supervise the operation of the hatchery
1	Admin Chief and Seaweed Lab In charge	<ul style="list-style-type: none"> ➤ Supervise and perform technical support activities ➤ Supervise the operation of Seaweed Laboratory and Nursery
4	Admin and Technical Support Services <ul style="list-style-type: none"> • 1 Clerk • 1 Station Canvasser • 1 Planning Officer • 1 Driver • 1 Utility Worker 	<ul style="list-style-type: none"> ➤ Clerical and Warehouse Activities ➤ Check, monitor and repair of equipment ➤ Canvass supplies and materials ➤ Plan and manage budget and projects Implementations ➤ Driving services ➤ Maintain the orderliness and cleanliness of the whole project
4	Broodstock Maintenance in Tank and Cages <ul style="list-style-type: none"> • 1 Aquacultural Technologist • 1 Aqua Technician • 2 Utility Workers 	<ul style="list-style-type: none"> ➤ Feeding , Monitoring and Maintenance of Siganid, Milkfish, and Pompano broodstock and breeders in maturation cage units ➤ Cleaning and Management of Breeders in Concrete Tanks

PERSONNEL COMPLEMENT

6	Larval Rearing <ul style="list-style-type: none">• 1 Aquacultural Technologist• 3 Aquaculture Technician• 2 Aquaculture Technician	<ul style="list-style-type: none">➤ Larval Rearing and fry/ juvenile production of Siganid, Milkfish and Pompano➤ Larval Rearing and Crab Instar production of Blue Swimming Crab
4	Green Algae Culture <ul style="list-style-type: none">• 2 Aquaculture Technician• 2 Utility worker	<ul style="list-style-type: none">➤ Mass Production of Green Algae outdoor (phytoplankton)
	Rotifer Culture <ul style="list-style-type: none">• 1 Aquaculturist• 2 Aquaculture Technician• 1 Utility Worker	<ul style="list-style-type: none">➤ Mass Production and Harvest of Rotifer (zooplankton)
1	Artemia Culture <ul style="list-style-type: none">• 1 Aquaculture Technician	<ul style="list-style-type: none">➤ Decapsulation and Harvest of Artemia
2	Seaweed Tissue Laboratory and Nursery <ul style="list-style-type: none">• 1 Lab Technician• 1 Nursery Aide	<ul style="list-style-type: none">➤ Culture of different seaweed species➤ Outplanting and dispersal of seaweed propagules

INFRASTRUCTURES

Table 2. Quantity and Area of Buildings and Facilities of Multi Species Hatchery:

No.	Description	Qty.	Unit	Area(sq. meter)	Capacity
1	Administrative Building (Old)	1	unit	45	
2	Phyco-Laboratory	1	unit	35	
3	Seaweed Tissue Laboratory	1	unit	70	
4	Administrative Building (New)	1	unit	144	
5	Warehouse	1	unit	50	
6	Guest House	1	unit	100	
7	Power House	1	unit	8.25	
8	Blower House	5	units	11.52/unit	
9	Seawater Reservoir (old)	1	unit	100.60	300 tons
10	Seawater Reservoir Tank (new)	1	unit		150 tons
11	Concrete Breeding Tank	2	units	208.20	75 & 14 tons
12	Concrete Algal Tank (With Interior Partition)	48	units	208.20	7 tons per unit
13	Concrete Algal Tank (Without Interior Partition)	12	units	312.30	13 tons per unit

INFRASTRUCTURES

14	Concrete Rotifer Tank	24	units	416.40	13 tons per tank
15	Concrete Larval Tank	48	units	208.20	7 tons per tank
16	Sedimentation Tank	1	unit	12.50	
17	Fiber Glass Tank (Black)	3	pcs		
18	Hatching Tank (Yellow)	4	pcs		
19	Broodstock Maturation Cages	3	units	729 cu. meter	50 pcs. B-stock per compartment
20	Broodstock Holding Cages	4	units	216 cu. meter	50 pcs. B-stock per compartment
21	Freshwater Stainless Tank	2	units		2 tons per unit
22	Freshwater Plastic Tank	2	units		2 tons per unit
23	Pump House	1	unit	7.5	
24	Road Network	1	unit	1,475	
25	Artemia Decapsulation Area	1	unit	13.68	12 tanks (1 ton)
26	Alley	1	unit	108.60	
27	Siganid Hatchery larval tanks (new)	36	units		10 tons per tank

COMMODITIES



Pompano



Siganid



Blue Swimming Crab



Milkfish

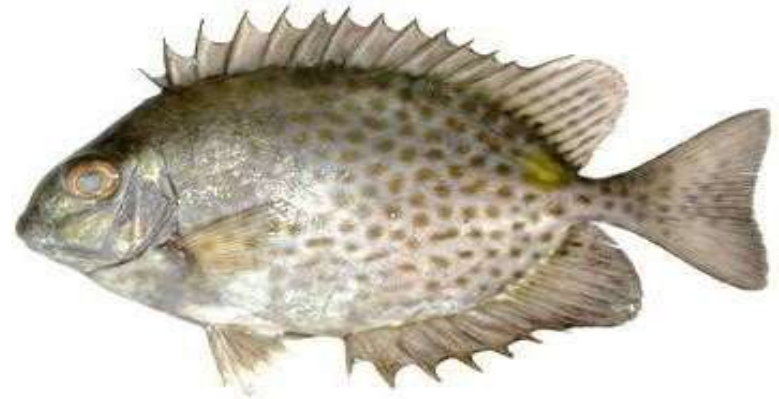


Seaweeds

BREEDERS' MAINTAINED:



Local Name : Bangus
English Name : Milkfish
Family : Chanidae
Scientific Name : *Chanos chanos*
Sources : CVMNDTC and CBH
Calape, Bohol



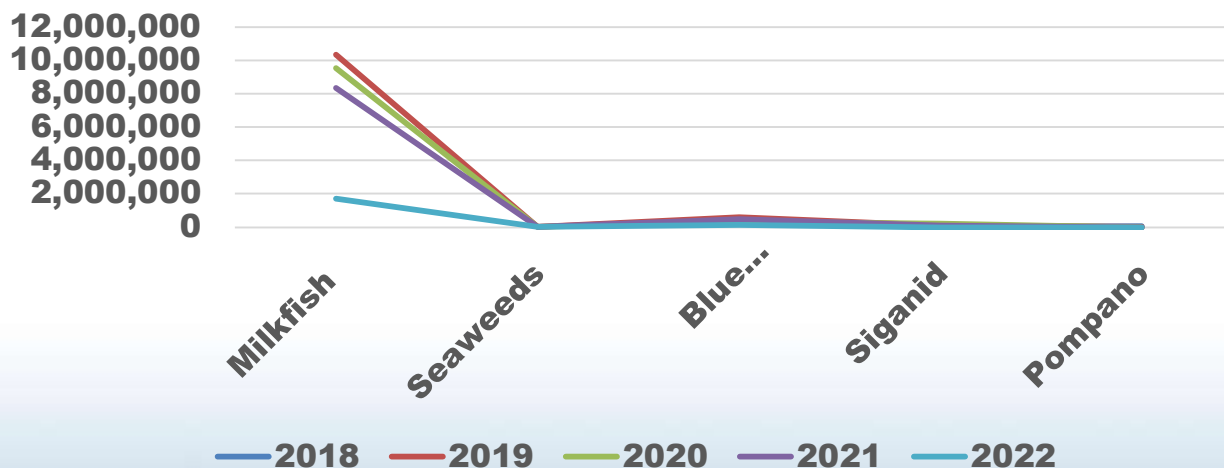
Local Name : Kitong
English Name : Sigamid,
Rabbitfish
Family : Siganidae
Scientific Name : *Siganus guttatus*
Sources : Wild /Local



Local Name : Pompano
English Name : Snubnose Pompano
Family : Carangidae
Scientific Name : *Trachinotus blochii*
Sources : CVMNDTC, Calape, Bohol

PRODUCTION RECORD

FIVE (5) YEAR COMMODITY PRODUCTION RECORD

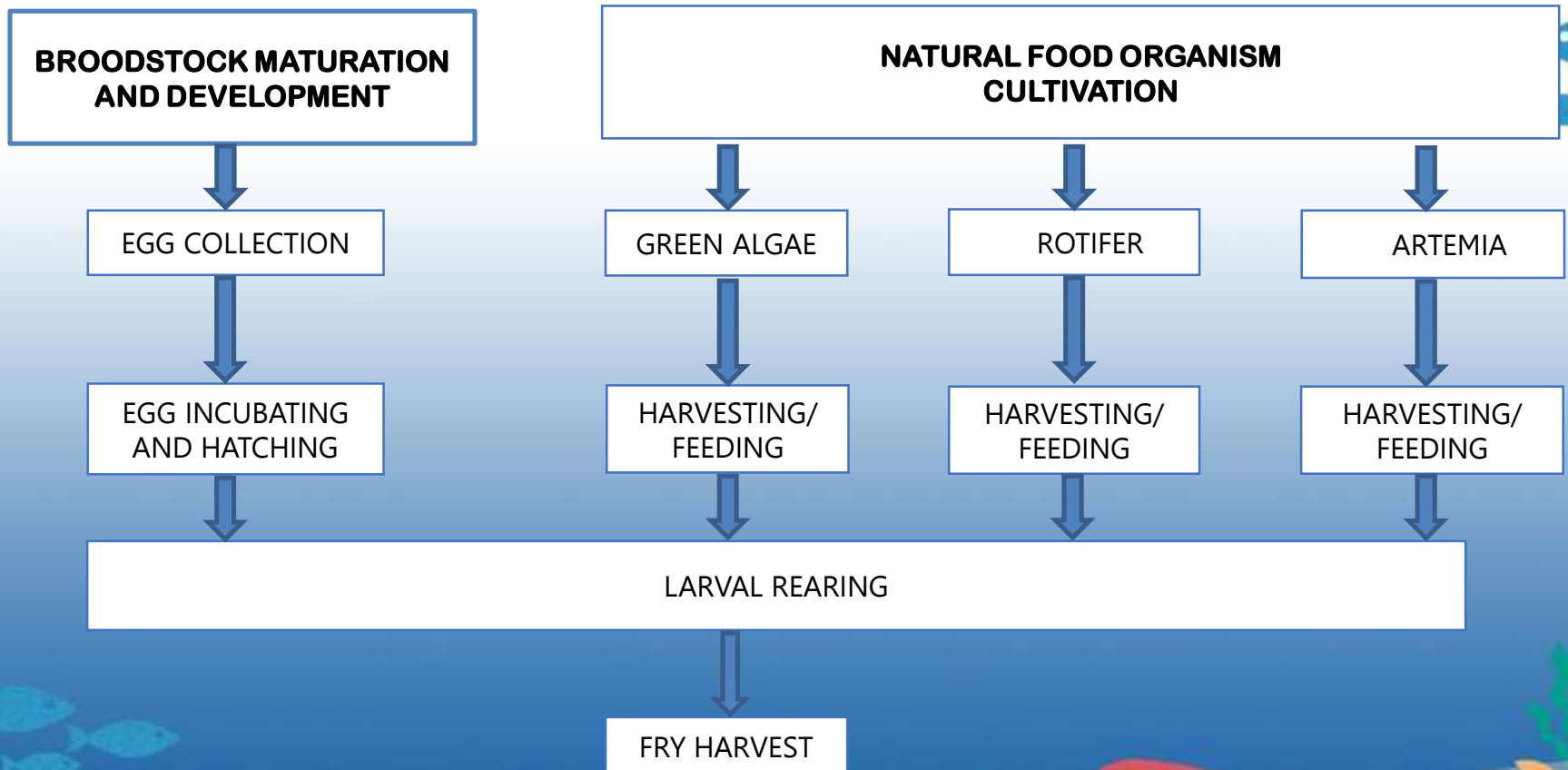


	2018	2019	2020	2021	2022
Milkfish	5,343,800	10,340,359	9,533,470	8,357,300	1,727,000
Seaweeds	3,990	4,331	3,660	3,980	2,736
Blue Swimming Crab	390,095	579,730	321,782	487,600	150,800
Pompano	51,765	23,900	-	-	-
Siganiid	5,867	86,800	208,561	97,270	-

PRODUCTION FLOW

Figure 23.

FLOW DIAGRAM MULTI SPECIES HATCHERY PROJECT Sinandigan, Ubay, Bohol



NATURAL FOOD PRODUCTION:

Green Algae Culture *Nannochloropsis sp.*

Indoor Culture

-primary culture will start in the phycology laboratory

Mass/Outdoor Culture

-to be propagated in concrete tanks outdoor

Rotifer Culture *Brachionus plicatilis*

Rotifer

-to be cultured, propagated and harvested for feeding to larvae and fry

Artemia Culture *Artemia salina*

Brine Shrimp Eggs

-to be inoculated and harvested for feeding to larvae, fry and juveniles

Developmental Stage of Milkfish, Siganid and Pompano

Eggs

Milkfish, Siganid, and Pompano eggs are incubated in the incubation tanks for 18-24 hours at a density of 300 eggs per liter.

Larvae

The hatched larvae are stocked in the larval rearing tanks. Utmost care will follow with a constant supply of feeds, rotifer and artemia nauplii, then monitored, water-managed and harvested at day 40 (DOC) for Siganid, and Pompano. A shorter rearing days for milkfish at day 21 ready for harvest.

Fry/Tiny

At harvest, the age of Milkfish fry is 21-25 days old. For Siganid Tinies and Pompano Juveniles is 40 - 45 days old from stocking.

The distribution of fry/tinies is 30 and 70 %. The seventy percent will be transferred to the Nursery in CVMNDTC, Calape, Bohol while the thirty percent will be sold to individual farmers, private investors and Mariculture zone.



Harvested Milkfish fry and Siganid Tinies for distribution

STATION ORGANIZATIONAL MANPOWER

