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DEPARTMENT OF AGRICULTURE
BUREAU OF FISHERIES AND AQUATIC RESOURCES

CIRCLES OF LIFE



DA-BFAR in cooperation with
Aqua Farm Tech, Inc., California, USA

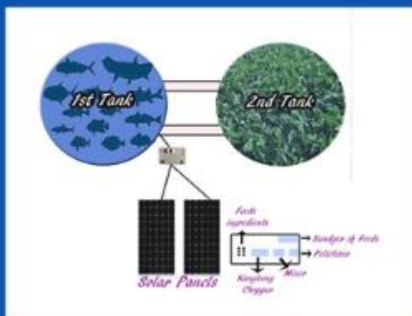
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THE TECHNOLOGY

The Circles of Life Technology is composed of two (2) circular tanks: Tank 1 holds the water for fish culture while Tank 2 for kangkong, eggplants, gabi and other vegetables. The aquaculture system from Tank 1 is fed to another system in Tank 2 where the by-product like nutrients and the water is then re-circulated back to the aquaculture system.

The re-circulating water is solar powered connected to the water motor on a re-circulating system with venturi technology.



WHAT ARE THIS TECHNOLOGY'S STRONG POINTS?

- Sustainable food production system
- Fish waste becomes nutrients for the crops
- Easy access to low-cost, organic and locally-produced food



MATERIALS' SPECIFICATIONS

Size:	30 ft diameter
Height:	3 ft
Height of Water:	2.5 ft
Area:	706.86 ft ² or 65.75 m ²
Fish Stocking Density:	45 pcs/m ²
2 Solar Panels:	0.5hp



BENEFITS

1. After four (3.5) months, the fish and the vegetables are readily available.
2. Additional family income.
3. Maximizes limited resources such as water, electricity, space and time.
4. Produce organic tilapia and vegetables within your reach.
5. Empowers households to have a direct access to production of fish cum vegetables



PROJECTED SIMPLE COST AND RETURN OF THE TECHNOLOGY CIRCLES OF LIFE

Assumptions:

Volume of Water:	50 m ³
Water Depth:	2.5 ft
Number of Tank:	1
Initial Weight of Fish:	50-100g
(All Male Tilapia)	
Stocking Density:	3,000/tank
Total Number of Fish Stock:	3,000 pcs
Ave. Weight of Fish at Harvest:	310 grams
Culture Period:	3.5 months

Operating Expenses:

Particular	Quantity	Unit Price(PhP)	Cost (PhP)
Tilapia	150 kg	50.00	7,500.00
Feeds	1,871.52	-	73,484.91
Family Labor	-	-	-
Depreciation			7,414.01
TOTAL			88,398.92

Harvest Data

Total Fish Stock	3,000.00
Total Number of Fish Harvested	2,850 pcs.
Survival Rate	95%
Ave. Weight at Harvest	310 g
Total Weight of Harvest	883.5 kgs.
Selling Price (Organic)	PhP 160.00

Simple Cost and Return

Gross Sales (Tilapia and Vegetables)	143,360.00
Less:	
Expenses:	88,398.92
Net Income:	54,961.08