

# BACKYARD CRAYFISH FARMING BUSINESS PLAN

## 1. Executive Summary

This business will raise Red Claw Crayfish using concrete tanks in a backyard aquaculture system. The project starts with 30 breeders and aims to produce 80–150 kg per year. Crayfish sell for ₱600–₱1,000 per kg locally, providing strong profit potential. Expected annual profit ranges from ₱50,000 to ₱120,000.

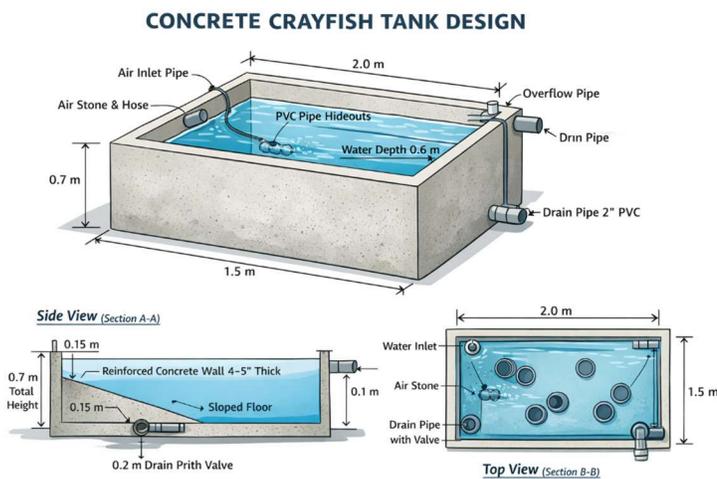
## 2. Concrete Tank Design

Tank dimensions: 2.0 m (L) × 1.5 m (W) × 0.6 m (depth)

Volume: 1,800 liters

Capacity: **30 breeders**

Estimated construction cost: ₱8,000–₱12,000



Note: *Pwede reuse yung dating kulungan naming ng baboy sa Cabalan*

## 3. Equipment Requirements and Cost

Equipment	Cost	
Air pump	₱1,000	<a href="#">Aquarium-Air-Pump</a>
Air hose and air stone	₱300	<a href="#">Hose-Splitter-Water-Tube</a>
Water pump	₱1,500	<a href="#">Aquarium-Pump-Bottom-Suction</a>
PVC shelters	₱500	@ any Hardware
Tools and net	₱500	
Total equipment cost	₱3,800	

## 4. Breeder Stock Cost

20 female breeders and 10 male breeders

Estimated cost: **₱5,000**

### 1. ARL Crayfish Breeder

Location: Sta. Ana, Pampanga <https://maps.app.goo.gl/wfkocKw5TaDhhSLU6>

Phone: +63 951 506 9955

<https://www.facebook.com/ARLCrayfishBreeders#>

## 5. Feeding Cost

Expected production: 100 kg/year

Feed Conversion Ratio (FCR): 1.3

Feed required: 130 kg/year

Feed cost: ₱7,150/year

### Cheap natural foods (to reduce cost)



Pwede natin makuha sa palenke for free or at a very low cost

You can feed:

- Kangkong
- Lettuce
- Cabbage
- Carrots
- Squash
- Duckweed
- Vegetable scraps
- These can reduce feed cost by 30–50%.

Feed occasionally:

- Golden snails
- Earthworms
- Fish scraps
- Black soldier fly larvae

Improves growth and reproduction.

### Monthly feed consumption example (100 crayfish)

Month	Feed per day	Feed per month
Month 1	20 g	0.6 kg
Month 2	40 g	1.2 kg
Month 3	60 g	1.8 kg
Month 4	80 g	2.4 kg
Month 5	100 g	3 kg
Month 6	120 g	3.6 kg

- Shrimp feed (starter, grower, finisher)
- Crustacean feed
- Tilapia feed (sinking type)

Price in PH:

- ₱45–₱60 per kg (shrimp feed)
- ₱50–₱80 per kg (crayfish feed)

Protein requirement:

- Juveniles: 30–35% protein
- Adults: 25–30% protein

## 6. Production Estimate

Expected babies per year: 2,000–4,000

Survival rate: 60–70%

Harvestable crayfish: 80–150 kg/year

## 7. Revenue Estimate

Selling price: ₱800/kg

Revenue range: ₱64,000–₱120,000 per year

## 8. Operating Expenses

Feed: ₱7,150

Electricity: ₱3,000

Miscellaneous: ₱5,000

Total: ₱15,150/year

## 9. Profit Estimate

Expected annual profit: ₱50,000–₱120,000

## 10. Risk and Survival Analysis

Expected survival rate: 60–70%

Major risks: cannibalism, poor water quality, poor feeding

Mitigation: proper shelter, water management, quality feed

## 11. Break-even Analysis

Startup cost: ₱18,800–₱25,000

Break-even period: 3–6 months

## 12. Expansion Plan

After first year, breeders multiply.

Possible scale:

Tanks	Annual production	Profit
1 tank	100 kg	₱50k–₱100k
3 tanks	300 kg	₱150k–₱300k
5 tanks	500 kg	₱250k–₱500k

## Concrete Crayfish Tank — Summary

### Advantages

- **Long lifespan:** 10–20 years, very durable

- **Higher survival rate:** 70–90% due to stable environment
  - **Easy cleaning:** With bottom drain and smooth surface
  - **Better protection:** Prevents predators (rats, snakes, birds)
  - **Higher production capacity:** Supports more crayfish per tank
  - **Better long-term profit:** Lower mortality and replacement cost
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### Disadvantages

- **Higher initial cost:** ₱8,000–₱12,000 per tank
  - **Permanent structure:** Cannot be moved once built
  - **Construction time needed:** 5–10 days including curing
  - **Requires proper design:** Poor drainage or sealing can cause problems
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### Conclusion

Concrete tanks have higher upfront cost but provide **better survival, durability, and long-term profitability**, making them the best option for serious backyard crayfish farming and business scaling.