

CASE STUDY 9 – OPTIMIZED PERFORMANCE OF WHITELEG SHRIMP, *Penaeus vannamei* IN INTENSIVE CULTURE - MALAYSIA



Challenge:

- Improving survivability of *Penaeus vannamei* in an intensive culture to improve revenue
- Improvement in the control of organic matter within an intensive culture to alleviate concerns of water foaming and toxicity
- Improving pigmentation of *Penaeus vannamei* for export purposes
- Improvement of Feed Conversion Ratio (FCR) to reduce operating cost

JF Nutritech Solution: Engineered solutions to maximize value and efficiency for customer's asset.

- Perfat Ruby 2500 is proposed as a solution at a dosage of 6% weight of feed and vacuum coated into feed.
- Historical pond data is compared against Perfat Ruby 2500 treated pond

Results

- Survivability of shrimp improved by approximately 13% relative to farm production target. Total survivability of treated pond is 89%
- Feed Conversion Ratio (FCR) reduced to 1.20
- Average Daily Gain (ADG) is equivalent to 0.427 g/day
- The control of organic matter leaching improved with little to no foam during the entire production cycle relative to control pond
- Color improved to SalmoFan™ range of 25

Parameters	Value
Pond Size (square meter)	1800
Stocking Number	400000
Stocking Density	222
Day of Culture (DOC)	90
Production per cycle	9048
Production (kgs/hectare)	50,267
Shrimp Weight at Harvest (pcs/kg)	26
ABW at harvest (grams)	38.46
ADG (grams per day)	0.427
FCR	1.2
Survival Rate	89%



Improving Performance Outcome - Survival, Growth, Quality, Production Efficiency

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Control Pond : Foam observed heavily at center



JF Nutritech : Little to no foaming observed

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