



MINISTRY OF
MARITIME AFFAIRS AND FISHERIES
REPUBLIC OF INDONESIA

Production Pacific Whiteleg Shrimp (*Litopenaeus vannamei*) Results Improvement Cluster-Based Ponds From Extensive Culture in Aceh.

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INTRODUCTION

Aquaculture sector is expected to be able to increase national economic growth, so that many efforts have been made to encourage increased national shrimp production through constructing or revitalizing cluster-based traditional pond areas. This is in link with the government's target of increasing national shrimp production by 2 million tons by 2024. In general, national shrimp production is not directly proportional to the area of pond land owned by Indonesia. Pond management is still very extensive without appropriate technology so the risk of disease attacks is quite high. The dilemma of disease attacks in extensive shrimp culture has resulted in the majority of farmers no longer managing their ponds seriously, resulting in many being idle



TARGETS AND OBJECTIVES

1. Cluster based arrangement of traditional pond area
2. Increase Vannamee shrimp Production
3. Increasing the economic income for the Farmers groups
4. The quality of welfare of the farmers groups
5. Technical strengthening of Standars Operational Prosedure (SOP)
6. Maximum utilization of fish pond land potential

THE IMPACTS

No	Deskription	Traditional Fish Pond	Cluaster Fish Pond
A. Production Result/years			
1.	Pond Area(m ²)	10.000	20.000
2.	Stock Density(ind.)	100.000	4.000.000
3.	SR (%)	20	93
4.	Population (nd.)	20.000	3.720.000
5.	ABW (gr)	25	20
6.	Biomass(kg)	500	74.000
B. Income/Years			
1.	Operational Costs (IDR)	18.600.000	2.976.000.000
2.	Average price (IDR)	80.000	72.300
3.	Sales Results (IDR)	40.000.000	5.379.120.000
4.	Profit (IDR)	21.400.000	2.403.120.000
5.	Income/month (IDR)	1.783.000	16.660.000

The production of extensive managed shrimp ponds is only capable of producing a maximum of 0.25 tons/ha/cycle (2 cycle per year reaching 0.5 tons/ha/year) with the shrimp farmer profit of only IDR. 1,783,000/month. Revitalization of extensive pond areas through the implementation of strict standard operational procedure, increasing stocking densities, maximizing cultivation support and technological intervention, is able to increase profits to the maximum with production achievements of 18.5 tons/ha/cycle or 74 tons/ha/year with 2 cycles per year, so that the shrimp farmer's profit increases to Rp. 16,660,000/month



The Methods

Carrying out Identification and Verification :



1. The location of the ponds in accordance with the spatial plan for the desin area pond shrimp.
2. Have the farmers group with official legality
3. There is road access and electricity source
4. There is access to sea water suplay (sources)
5. Minimum potential social konflik
6. Determine the location based on Technical Standars

