ABSTRACT

FEASIBILITY STUDY OF POND SITE TIGER SHRIMP (*Penaeus monodon*) EXTENSIVE AQUACULTURE IN PURWOREJO VILLAGE PASIR SAKTI EAST LAMPUNG DISTRICT

By
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The aquaculture area in Purworejo Village, Pasir Sakti East Lampung District applying polyculture farming systems of tiger shrimp (*Penaeus monodon*) and milkfish (*Chanos chanos*) extensively. This study aim to determine the feasibility level of shrimp aquaculture environment in Purworejo Village, Pasir Sakti, East Lampung District. Scoring/weighing method was used 4 classes: S1, S2, S3 and N. The parameter which was observed are temperature, pH, salinity, Dissolved Oxygen (DO), ammonia (NH3), Total Organic Matter (TOM), annual rainfall, tide, and soil conditions (P-total, N-total and C). The results showed that station 1 has the highest total percentage of land quality that is equal to 62.5% (moderate feasibility / S2). While the value of the total percentage of land quality is found in station 2 that is equal to 57.62% (moderate feasibility / S2). Average value of the total percentage of land quality for shrimp ponds in the village in Purworejo Village, Pasir Sakti is 61.79% (moderate feasibility / S2). The total area of shrimp ponds in the village of Purworejo Pasir Sakti is ± 624 ha but that can be supported for tiger shrimp ± 385.56 ha.

Keywords: *Penaeus monodon*, *Chanos chanos*, feasibility, scoring.