

Title: **Cost and Returns of Extensive Shrimp (*Penaeus Monodon*) in Disease-Affected Area: A Farm Ownerships Comparison**

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Abstract: This study was conducted to assess the economic consequences gained from disease-affected extensive shrimp farming by three major farm ownerships: individual, group and outside respectively. Key data for cost and returns were collected using a questionnaire survey between June and August 2002 from southwest Bangladesh. Profitability of operations was affected by fluctuating yields and prices due to diseases and generated economic losses. Different farm ownerships achieved a variable yield of *Penaeus monodon* ranging from 108.88 kg/ha to 146.39 kg/ha through multiple stock and harvest methods. Over 50% yield of the farm came from *P. monodon*. Other shrimps and fin fish also played contributory role in increasing total biomass of the farms in all ownership categories. Outside farm owner invested higher (US\$ 1140.11/ha or 66,697.01 tk/ha) than individual farm owner (US\$ 1084.40/ha or 63,437.57 tk/ha) and group farm owner (US\$ 1043.16/ha or 61,025.24 tk/ha). The gross returns achieved by each of the farm categories were 49,999.87 tk/ha (US\$ 854.69) by individual farm owner; 53,888.52 tk/ha (US\$ 921.17) by group owner; and 49,259 tk/ha (US\$ 842.03) by outside farm owner respectively. Due to lower sale price, the return to total cost was found negative in all categories of farm ownership (0.78, 0.88 and 0.73 respectively).