“Designing Lobster Catching Tool using Quality Function Deployment (QFD) and Function Analysis System Technique (FAST) Approach with the Benefit to The Fishery Industrial Cluster (Case study : Paciran Fisherman Community)”

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Abstract

Fisherman Catching Technology is one of the most influence factor decreasing Indonesia Fisherman’s competitiveness. Less of the catching tools technology development research in fish catching industry cause quantity stagnation and use of the instant hazardous tools. One of the sea commodity with the superior characteristic is Lobster. Lobster has a high price but minimum exploration because there is no specific catching tool for it. Paciran is one of the coastal area in Laut Jawa with lobster commodity. In lobster season, the catching tools limited to the bubu and net that don’t exist for catching lobster. Based on the problem, this research held for designing the new specific lobster catching tools that suitable for the little boat. Designing the lobster catching tools use the Quality Function Deployment (QFD) approach to get the need of the fisherman and Function Analysis System Technique (FAST) to develop the technical power in detail and specific function. Cost minimization in innovation step using FAST method based on the highest costing component using the value engineering approach. Exist tools influence is than predicted for the fishery industrial klaster performance using causal loop diagram to identify the influenced index. Result In this research is the specific lobster
catching tools that fulfill the principle criteria of the passive catching tools and specific able to catch lobster.

Keywords: Specific Lobster Catching Tool, QFD, FAST, Value and Cluster Influence