

Abstract

Indonesia is a country with extensive water areas, covering 11.95 million (ha) rivers and swamps, 1.87 million (ha) of natural lakes, 0.003 (ha) artificial lakes, and extensive sea waters, which have made it easy for the community especially fish farmers. Indonesia is also included in the largest maritime country. This would be very good if maximally utilized as the largest fish-producing sector in the world, both in the form of sea fish and freshwater fish. Coupled with the ideals of the president of the Republic of Indonesia, Mr. Ir. Jokowi who wants to realize the dreams of Indonesia. Fish feed can be classified into two types, namely natural food and artificial feed. Natural food is generally available in the wild, but it is difficult to breed, although some people breed natural feed such as worms, mosses, water fleas, small fish, and so on.

This study aims to obtain catfish pellet mixing machines with a capacity of 300 Kg by utilizing scrap iron. And the time of making pellets is faster so it is more effective. The materials used here are used iron waste. In the mixing system using diesel with a capacity of 12 PK as a driver. Machine stirrers must be able to mix more than one ingredient such as rice bran, fish waste, starch, leaf waste, and vitamin fish.

The results test obtained from manufacture this is to reduce the dependence of society, especially farmers against catfish pelleted sold in the market at high prices. And can increase

Productivity community. And can make it easier for people, especially catfish farmers to be able to make fish pellets independently.

Keywords: Pellet, *Mixing*, Waste, Power, Torque, Raw Material Consumption.