

ABSTRACT

PT. Phillips Seafood Indonesia is canned crab meat processing industry that produces solid and liquid waste. During this time, the waste produced by the industry has not handled optimally. Cleaner production is one of the strategies to handle the waste. The purpose of this study was to determine the best alternative of cleaner production in PT. Phillips Seafoods Indonesia and the financial feasibility of the best alternative implementation. Alternative application of cleaner production used is an organic liquid fertilizer, flour shell crab, chitin and chitosan. Determining the best alternative was conducted using AHP (Analytical Hierarchy Process). Parameter calculation of financial feasibility using BEP (Break Event Point), PP (Payback Period), B/C ratio (Benefit Cost Ratio), NPV (Net Present Value) and IRR (Internal Rate of Return). The results showed that the best alternative namely processing of solid waste into chitin and chitosan with a weight value of 0,430. Financial analysis shows that the production of chitin and chitosan feasible to do with BEP is Rp. 55.184.959, BEP unit 324,62 Kg, Payback Period for 1 year, B/C ratio of 9,47, NPV Rp. 2.134.629.749, and an IRR of 173,29% .

Keywords : Cleaner Production , AHP , Chitin and Chitosan , Financial Feasibility