

## **ABSTRACTION**

*Inventory is an activity that includes the belongings of the company with the intent to sell within a period specified business or stock of goods which are still under construction or production process, or the supply of raw materials awaiting its use in a production process.*

*Kilang Sagu HMM is a business engaged in the field of dry corn starch industry is located in the village of Tanjung, Sub Tebing Tinggi West, Meranti Islands regency, Riau. Sago or also called Tual Sagu is the main raw material for making dried corn starch. Raw materials obtained from local residents. Sago palms are often found around the island Merbau, Rangsang island, and Tebing Tinggi island (Meranti Islands District) Riau Province.*

*Kilang Sagu HMM is currently facing the problem of raw material ordering is not planned properly, resulting in increased inventory costs. That condition requires companies that the raw materials can be planned according to production requirements.*

*Based on the condition being faced by the HMM Kilang Sago, then to solve the problems of matching inventory control method is to use heuristics Silver Meal. This method aims to solve the problem that the best results are nearing completion (optimal). The use of this Meal Silver method can determine the amount of raw material ordering tual optimal sago sago refineries thus minimizing expenditure for purchase of raw materials.*

*In accordance with the conditions of the sago plant, then the model is suitable inventory control is to use a heuristic method Silver Meal. This method aims to solve the problem that the best results are nearing completion (optimal). The applicability of this method of Silver Meal will be able to determine the amount of raw material ordering sago optimal tual thus minimizing expenditure for purchase refinery feedstocks. Where the workings of this method is when there is a rise in the cost per period (Total Relevant Cost (T)), then in the period which increased the cost of becoming a reference in subsequent periods ordering raw materials, nor the next.*

*After performing the calculation process, the obtained raw material ordering tual sago done 2 times bookings are on first booking as many as 1836 rod, and the rod in 2313 as a second booking. Where the first order obtained from the number of demand periods with a period of 1 to 6, and the second booking was obtained from the number of demand periods 7 through 12. With the period of total expenses incurred amounted to Rp. 13.568.140 million to 2 times the ordering of raw materials. From the results of the study suggest that the refinery should Sago HMM monitoring and analysis of data related to the inventory system.*

**Keywords:** *Raw Materials Order, Methods Heuristic Silver Meal*