

Analyzing The Coffee Raw Material Supply Control In Tarakan Brewing House Coffee Shop

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ABSTRACT

Raw materials are one of the determining factors in the smooth production process. So that every company must have a sufficient supply of raw materials sufficient and adequate in supporting production activities. When supply If the raw materials stagnate, the production process activities will be hampered. The delay the production process will affect the level of output produced. Study This study aims to find out as well as describe how activities existing control management at the Tarakan Brewing House coffee shop and then analyze the optimal number of orders for raw materials with using the EOQ (Economic Order Quantity) method. Method used in this research is a quantitative descriptive analysis where management Inventory control is described according to what Tarakan shop Brewing House do then analyze economic order quantity by EOQ (Economy Order Quantity) method, calculation of safety stock (Safety Stock), and determining when to order raw materials back ROP (Reorder Points). The results of this study indicate that the Tarakan Brewing coffee shop House has so far made 26 orders with a total order as much as 130 kg, the average order is 10,833 kg. The total cost of the order issued by the owner of the Tarakan Brewing House coffee shop in a year amounting to Rp. 9,750,000 and the total inventory cost is Rp. 10,710,000 if using the EOQ (Economic Order Quantity) method, the total cost an order of Rp. 3,059,412, total storage cost Rp. 3,059,412 and total inventory cost of Rp. 6,118,823. EOQ (Economic Order Quantity) Method also causes the frequency of purchases to be less that is 4 times, the order quantity optimum of 31.87 kg time to reorder when inventory reaches 2,333 kg with a waiting time of 3 days and a safety stock of 13 kg EOQ (Economy Order Quantity) calculation, which can thus be used as a alternative for Tarakan Brewing House coffee shop in controlling inventory raw material. The use of the EOQ (Economy Order Quantity) method can save on inventory costs at the Tarakan Brewing House coffee shop by Rp. 4,591,177 for a year.

Keywords:

Coffee Beans, Tarakan Brewing House, Inventory Control

INTRODUCTION

Raw materials are an important factor in the smooth process production for the company, where raw materials must be used effectively and

efficiently in order to benefit the company. So that every company must have a sufficient supply of raw materials effectively to support the company's production activities. If raw materials are

hampered, it can interfere with the production process. The delay of the production process will affect the level of output produced later. The decline in the level of output will affect the level of sales which will result in the company being unable to meet consumer demand [1].

In industrial companies, the supply of raw materials is important for the production process. Therefore, every company can determine the optimal amount of raw material inventory. Therefore it must consider various factors related to procurement and storage raw material. Determination and grouping of costs associated with procurement of supplies needs to get special attention from management in making the right decisions [2].

The presence of a coffee shop business that is so fast has a new impact for the consumer's lifestyle. Consumer activity increases with There is also an increasing trend of visiting coffee shops, besides that coffee shops are not only used as a place to drink coffee, but can also be used as a place to drink coffee as an alternative public space that can have a variety of functions, activities such as family gatherings, business meetings, as well as places to fill in spare time. One of the coffee shops in Tarakan City, North Kalimantan is Tarakan Brewing House which is located at JL. Yos Sudarso NO.18, Iron Bridge Tarakan City, North Kalimantan.

Tarakan Brewing House is a coffee shop that was founded on October 29th 2018. Tarakan Brewing House was formed by departing from the concept of a a shop with a simple and perfunctory

place. Raw materials used in the manufacture or production process namely coffee beans. Coffee beans are the main raw material that must be available to everyone time, because coffee beans are the main raw material, so inventory control the raw material for coffee beans must be considered from the costs involved spent on the purchase of very large raw materials because it affects for smooth production. There is an imbalance between inventory control on consumer demand, so that it becomes one of the factors that makes an effort difficult to determine the time and the number of orders for raw material needs which resulted in frequent shortage or excess of raw materials. Besides that, the location or region the place of business of the coffee shop is on an island that is not at all coffee-producing areas, so during the process of ordering raw materials at the shop Tarakan Brewing House coffee usually only predicts like that simply, how many units are ordered against consumer demand [3]. So that, this research aims to (1) knowing the management of coffee raw material inventory control at the Coffee Shop Tarakan Brewing House and (2) knowing the control of raw material supplies of coffee beans at the Coffee Shop Tarakan Brewing House using Economic Order Quantity analysis, Safety Stock, Reorder Point, and Maximum Stock.

METHOD

The sample was completed by using purposive sampling. The data is solved by using Order Quantity Economic Analysis. research location in

Tarakan Brewing House Coffee Shop, Tarakan City, Nort Kalimantan.

RESULT AND DISCUSSION

1.1 Tarakan Brewing House Coffee Shop History and Profile

Tarakan Brewing House Coffee Shop is one of the coffee shops in The city of Tarakan which was founded in 2018. The beginning of the operation of Tarakan Brewing House coffee shop offers a simple coffee drink menu. However over time the Tarakan Brewing House coffee shop started to adding various coffee drink menus, not only coffee drinks, but also adds a variety of snacks as well as heavy meals. Tarakan Brewing House is a coffee shop that specially producing processed drinks made from coffee beans through presentation technique that is still manual.

1.2 Management of Inventory Control of Coffee Beans at Tarakan Brewing House Coffee Shop

Inventory control management carried out at Tarakan Brewing House coffee shop can be considered quite good in its implementation, with pay attention to the input and output processes in production operations that have been held. At the time $W(t)$ or when the average material or material comes out From the inventory system, the shop owner records the quantity of materials or materials that are come out only at the beginning of the month without paying attention to the influence of demand on average $D(t)$, which increased in the middle of the year until the end of the implementation year. Output $W(t)$ is affected by demand or the need for materials or materials,

with an average of $D(t)$, originating from outside [5].

1.3 Lead Time

The lead time is the time used to obtain raw material for coffee beans needed in the production process. While there are at the coffee shop Tarakan Brewing House has determined the time interval ordering coffee beans or the raw material itself. With procurement waiting time coffee beans from the point of ordering the coffee beans until the coffee beans are in shop [6]. The lead time that occurs at the Tarakan Brewing coffee shop House, which is for 3 days, this is due to the place where the raw materials are taken located outside of Tarakan, which comes from the islands of Java and Sumatra.

1.4 Ordering Cost/Setup Cost

The ordering fee is the cost incurred by the Tarakan Brewing House coffee shop due to ordering raw materials. As for the costs in question here the cost of the expedition or the cost of shipping the coffee beans [7]. the expedition used is J&T. Cost of ordering coffee beans as raw material coffee drinks every time a purchase is Rp 750.000,-.

1.5 Economi Order Quantity (EOQ) Analysis

Order quantity optimum coffee beans as much as 31.87 kg. To meet these needs, it can taken into account the fulfillment of the most economical purchasing needs, namely: the number of items that can be obtained by purchasing using cost minimal. By using EOQ the company will be able to determine the amount of economical raw materials in a certain period of time. And can

determine the total cost of inventory for a period, so the company will be able to determine policies that are appropriate to the conditions that occur.

[8].

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