

ABSTRACT

LOGISTICS MANAGEMENT ANALYSIS AND INVENTORY CONTROL OF BANANA BOLEN RAW MATERIALS (Case Study at CV Mayang Sari Bandar Lampung City)

By

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Logistics management is important for agroindustries to ensure smooth and sustainable operations. Effective logistics management is able to control raw material inventory, so that all company operations can run smoothly. This research was a case study that aimed to evaluate delivery time, analyze the percentage of logistics costs to the revenue of banana bolen products, and analyze inventory management at CV Mayang Sari in Bandar Lampung City. The analysis methods used were delivery time analysis using the On Time In Full (OTIF) matrix, logistics cost analysis, and inventory management analysis using the deterministic Economic Order Quantity (EOQ) method. The results showed that the OTIF value at CV Mayang Sari in 2023 was 89%. This value indicated that the delivery time performance of CV Mayang Sari was categorized as good. The total logistics cost of CV Mayang Sari's banana bolen in 2023 was IDR 894,116, with the percentage of logistics costs to revenue being 0.52%. This figure indicated that logistics management at CV Mayang Sari was considered efficient. Based on the inventory management analysis using the deterministic EOQ method, it was recommended that the optimal order quantity was 1,330 bunches/month, with an order frequency of four times, the safety stock for banana raw materials was 28 bunches, and the reorder point occurred when the inventory level reached 115 bunches. Based on the results of the recommendation using the deterministic EOQ method, the total inventory cost was IDR 1,215,679/year, allowing the agroindustry to save IDR 7,290,321/year in inventory costs annually.

Keywords : bolen banana agroindustry, delivery time, EOQ, logistics cost, OTIF

ABSTRAK

ANALISIS MANAJEMEN LOGISTIK DAN PENGENDALIAN PERSEDIAAN BAHAN BAKU PISANG BOLEN (Studi Kasus pada CV Mayang Sari Kota Bandar Lampung)

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Manajemen logistik penting bagi agroindustri untuk memastikan kelancaran dan keberlanjutan operasional. Manajemen logistik yang efektif mampu mengendalikan persediaan bahan baku, sehingga seluruh operasi perusahaan dapat berjalan dengan lancar. Penelitian ini merupakan penelitian studi kasus yang bertujuan untuk mengevaluasi *delivery time*, menganalisis persentase biaya logistik terhadap penerimaan produk pisang bolen, dan menganalisis *management inventory* pada CV Mayang Sari Kota Bandar Lampung. Metode analisis yang digunakan yaitu analisis *delivery time* menggunakan matriks *On Time In Full* (OTIF), analisis biaya logistik, dan analisis *management inventory* menggunakan metode *Economic Order Quantity* (EOQ) deterministik. Hasil penelitian menunjukkan nilai OTIF pada CV Mayang Sari tahun 2023 adalah sebesar 89%, nilai ini menunjukkan *delivery time* CV Mayang Sari tergolong dalam kategori baik. Total biaya logistik per kotak pisang bolen CV Mayang Sari tahun 2023 adalah sebesar Rp894.116 dengan persentase biaya logistik terhadap penerimaan sebesar 0,52%, nilai ini menunjukkan manajemen logistik di CV Mayang Sari tergolong dalam kategori baik. Berdasarkan analisis *management inventory* menggunakan metode EOQ deterministik, dapat direkomendasikan jumlah pemesanan yang optimal yaitu sebanyak 1.330 sisir/bulan dengan frekuensi pemesanan sebanyak 4 kali, *safety stock* bahan baku pisang adalah sebanyak 28 sisir, dan *reorder point* yaitu ketika persediaan bahan baku pisang di gudang mencapai titik 115 sisir. Berdasarkan hasil rekomendasi menggunakan metode EOQ deterministik, diperoleh *total inventory cost* yaitu sebesar Rp1.215.679/tahun, sehingga agroindustri dapat menghemat biaya persediaan sebesar Rp7.290.321/tahun.

Kata kunci: agroindustri pisang bolen, biaya logistik, *delivery time*, EOQ, OTIF