

Ardhini Hasna Isdiatma. 2026. Analisis Persediaan Bahan Baku Kopi Robusta Menggunakan Metode *Economic Order Quantity* (EOQ) (Studi Kasus pada Andaru Coffee Roasters Jetis, Bantul)”. di bawah arahan Wulandari Dwi Etika Rini

ABSTRAK

Penelitian ini bertujuan untuk 1) menganalisis jumlah persediaan bahan baku kopi robusta yang optimal pada Andaru Coffee Roasters menggunakan metode *Economic Order Quantity* (EOQ); 2) menganalisis *safety stock* bahan baku kopi robusta yang aman di Andaru Coffee Roasters; 3) menganalisis *reorder point* bahan baku kopi robusta yang aman di Andaru Coffee Roasters; 4). menganalisis pengaruh faktor jumlah penggunaan bahan baku, harga bahan baku, dan biaya penyimpanan serta arah hubungannya terhadap persediaan bahan baku biji kopi robusta di Andaru Coffee Roasters. Penelitian ini menggunakan pendekatan kuantitatif dengan jenis penelitian studi kasus. Metode pengambilan sampel yang dilakukan adalah *purposive sampling* meliputi *owner* dan penanggung jawab produksi. Menggunakan sumber data primer serta sekunder. Metode pengumpulan data dengan wawancara, observasi, dan dokumentasi. Teknik analisis data yang digunakan adalah analisis EOQ, *safety stock*, *reorder point*, regresi linier berganda, dan pengujian hipotesis menggunakan uji F dan uji t. Hasil penelitian diperoleh bahwa (1) persediaan bahan baku biji kopi pada Andaru Coffee Roasters robusta optimal pada kuantitas sebesar 174,29 kg per pesanan; (2) nilai persediaan pengaman (*safety stock*) biji kopi robusta pada Andaru Coffee Roasters aman pada kuantitas 26,61 kg; (3) titik pemesanan kembali (*reorder point*) biji kopi robusta pada Andaru Coffee Roasters aman pada 62,80 kg; (4) penggunaan bahan baku, harga bahan baku, dan biaya penyimpanan berpengaruh secara simultan terhadap persediaan bahan baku biji kopi robusta di Andaru Coffee Roasters. Secara parsial, hanya penggunaan bahan baku yang berpengaruh signifikan terhadap persediaan. Ketiga variabel memiliki arah hubungan positif antara penggunaan bahan baku, harga bahan baku, dan biaya penyimpanan terhadap persediaan bahan baku biji kopi robusta yang menunjukkan peningkatan persediaan apabila terjadi kenaikan pada ketiga variabel tersebut.

Kata Kunci: EOQ, Persediaan, *Reorder Point Safety Stock*

Ardhini Hasna Isdiatma. 2026. *“Analysis of Robusta Coffee Raw Material Inventory Using the Economic Order Quantity (EOQ) Method (A Case Study at Andaru Coffee Roasters, Jetis, Bantul).”* Supervised by Wulandari Dwi Etika Rini

ABSTRACT

This research aimed to 1) analyze the optimal inventory level of Robusta coffee raw materials at Andaru Coffee Roasters using the Economic Order Quantity (EOQ) method; 2) analyze the safe safety stock level of Robusta coffee raw materials at Andaru Coffee Roasters; 3) analyze the safe reorder point for Robusta coffee beans at Andaru Coffee Roasters; 4) analyze the effects of the quantity of raw materials used, raw material prices, and storage costs, as well as their relationship, on the inventory of Robusta coffee beans at Andaru Coffee Roasters. This research employs a quantitative approach using a case study design. The sampling method used was purposive sampling, which included the owner and the production manager. Data types and sources consist of primary and secondary data. Data collection methods included interviews, observations, and documentation. The data analysis techniques employed were EOQ analysis, safety stock analysis, reorder point analysis, multiple linear regression, and hypothesis testing using the F-test and t-test. The results showed that (1) the optimal inventory level for Robusta coffee beans at Andaru Coffee Roasters is 174,29 kg per order, (2) the safe stock level for Robusta coffee beans at Andaru Coffee Roasters is 26.61 kg, (3) the reorder point for Robusta coffee beans at Andaru Coffee Roasters is 62.8 kg, (4) usage of raw materials, raw material prices, and storage costs simultaneously influence the inventory of Robusta coffee beans at Andaru Coffee Roasters. Partially, only the use of raw materials has a significant effect on inventory. All three variables exhibit a positive relationship between raw material usage, raw material prices, and storage costs and the inventory of Robusta coffee beans, indicating an increase in inventory when there is an increase in all three variables.

Keywords : EOQ, Inventory, Reorder Point, Safety Stock