

**Soybean Raw Material Supply Control  
By Using The Economic Order Method  
Quantity (EOQ) At UD Mentari Jaya**

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***ABSTRACT***

*This research was conducted using quantitative descriptive research with the aim of analyzing the comparison of UD Mentari Jaya's inventory with inventory using EOQ. The data used is data on raw material orders for January - December 2023. The results of processing data on orders for soybean raw materials in 2023, raw material purchases made by UD Mentari Jaya amounted to 125,000 Kg with an order quantity of 2,785 Kg and 44 orders a year and total costs spent amounting to Rp. 16,743,600. Meanwhile, using the EOQ method, raw material orders were obtained for 4,564 kg with an order frequency of 26 times a year. The safety stock that needs to be available is 3,491 kg of soybeans, and reordering is carried out at the raw material point for 3,841 kg of soybeans. The total costs incurred were Rp. 5,477,247. Applying the EOQ method to control supplies of soybean raw materials saves costs of IDR. 11,266,353 or 67% and streamlined purchasing of raw materials by 5.6%.*

*Keywords: Soybeans, Inventory Control, EOQ, UD Mentari Jaya*