ABSTRACT

PT Jalimas Indah Perkasa is a business engaged in the textile and apparel industry, located in South Purwokerto, and has been operating since 2015. The company focuses on the production of ready-to-wear gamis, while other products are produced by convection partners. Currently, gamis production is hampered by a shortage of raw materials (stockout), due to the absence of an inventory management system that causes the company to incur losses due to unattained production targets, exceeding the agreed deadline and reducing customer trust. The purpose of this study was to calculate raw material requirements, optimal ordering, minimize raw material inventory costs and manage reserve stock and efficient repurchase of raw materials at PT Jalimas Indah Perkasa. The solution is the application of raw material inventory management methods, namely Material Requirement Planning to calculate raw material requirements and provide raw materials on time so that production targets are not achieved, Economic Order Quantity (EOQ) for optimal ordering, safety stock to prevent stockout, reorder point determines when raw materials need to be reordered. The results. Using the Economic Order Quantity method, the total cost of raw material inventory can be minimized by Rp 36,393,031, or a savings of 15.53%. In conclusion, using the Economic Order Quantity approach can work well because it can ensure optimal ordering and minimize inventory costs.

Keywords: *textile*, *stockout, safety stock, economy order quantity, reorder point*