

## **ABSTRACT**

PT. Kukuh Tangguh Sandang Milis (KTSM) is a company that produces fabrics in which the production process is spinning, weaving and yarning into cloth. . In the operation, the production process is based on the number and types of different orders on each booking. In the production process, often occur less of raw material where the raw material is one of prerequisite for the production process can do smoothly. It is caused by the production planning is not good.

Lot sizing is one of fundamental importance in a material requirements planning system. Pick and choose the most appropriate lot sizing techniques with the condition of the company will support the efficiency in material requirements planning so that can get generate a satisfactory results.

The first stage is forecasting to predict demand which occur in the future. Then determined the lot sizing method with most suitable for the condition of the company. MRP is a method that used for the planning, controlling and managing of supply items that depend on the higher item

From these results we concluded that the best lot sizing method is to use the method of Wagner Within where the level of efficiency that is obtained when using this method amounted to Rp 263.168.397,22 or 0,77%.

Keywords :

Raw Material Requirement planning, lot sizing, Wagner Within