

ABSTRAK

Putri Novianti. NIM 4161230023(2016). Peramalan *Crude Palm Oil* (CPO) Menggunakan Metode *Seasonal Autoregressive Integrated Moving Average* (SARIMA) Pada Pt. Grahadura Leidong Prima

PT.Grahadura Leidong Prima merupakan salah satu perusahaan yang bergerak dibidang industri pertanian. Perusahaan ini bergerak pada bidang produk yang mengolah hasil produksi kelapa sawit berupa *Crude palm oil* (CPO). Akan tetapi beberapa tahun terakhir perusahaan mengalami ketidakstabilan hasil produksi, untuk itu dilakukan peramalan. Penelitian ini bertujuan untuk mengetahui hasil peramalan *Crude palm oil* (CPO) pada PT.Grahadura Leidong Prima menggunakan metode *Seasonal Autoregressive Integrated Moving Average* (SARIMA). *Seasonal Autoregressive Integrated Moving Average* (SARIMA) adalah model hasil modifikasi model ARIMA untuk menyelesaikan time series yang digunakan untuk data musiman. Model SARIMA yang di dapat pada penelitian ini adalah SARIMA $(0,1,1)(2,1,0)^{12}$ dengan nilai error *MAPE* yang didapat sebesar 3,48%.

Kata kunci : *Crude palm oil* (CPO), *Seasonal Autoregressive Integrated Moving Average* (SARIMA), *MAPE*.

ABSTRACT

Putri Novianti. NIM 4161230023 (2016). Forecasting Crude Palm Oil (CPO) Using The Seasonal *Autoregressive Integrated Moving Average* (SARIMA) Method At Pt. Grahadura Leidong Prima

PT.Grahadura Leidong Prima is a company that operates in the agricultural industry. This company operates in the product sector that processes palm oil production in the form of *Crude palm oil* (CPO). However in recent years the company has experienced instability in production result, for this reason forecasting *Crude palm oil* (CPO), at PT.Grahadura Leidong Prima using the *Seasonal Autoregressive Integrated Moving Average* (SARIMA) method. *Autoregressive Integrated Moving Average* (SARIMA) is a model resulting from a modifications of the ARIMA model to complete the time series used for seasonal data. the SARIMA model obtained in this research is SARIMA $(0,1,1)(2,1,0)^{12}$ with a MAPE error value of the obtained 3,48%.

Keywords: *Crude palm oil* (CPO), *Seasonal Autoregressive Integrated Moving Average* (SARIMA), *MAPE*.