APPLICATION OF THE ARIMA METHOD TO DEVELOP THE PRODUCTION PLAN THE NUMBER OF SALES TO THE NUMBER OF SALT DEMAND AT PT DAMAI SENTOSA PANGAN

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ABSTRACT

PT Damai Sentosa Pangan is a company engaged in the processing and trading of salt since 2019. In 2020, it experienced a problem, namely the unfulfilled demand due to the uncertainty of the number of requests each day. Based on this research, a forecasting website will be made using the Autoregressive Integrated Moving Average (ARIMA) method. The website was created to display the forecast for the next period's demand. Forecasting is done using data from the company for 16 (sixteen) months. The results of this forecasting website are to be used as a reference in planning the production of the number of sales each day needed in this company. From the results of the study, it was found that the ARIMA (1, 2, 1) model with a MAPE value of 32.01726%, was more suitable to be used as a prediction of salt demand at PT Damai Sentosa Pangan.

Keywords: *Forecasting, Salt Production, ARIMA, PT Damai Sentosa Pangan*