

## **ABSTRACT**

### **STOCK PREDICTION APPLICATION OF QUADRATIC TREND METHOD IN CV. SINAR MAS**

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*Each company that based on marketing products will always replenish the stock of goods to be marketed, but this also be the weakness for company which saving stocks because of the unstable demand quantity will inflicting sold stock be unstable, and thus the loss of the company. The same problem, too, is being faced by CV. Sinar Mas as a company which engage in the sale of brown sugars in Palembang, instability sold stocks quantity often lead the stock accumulated due to low demand and otherwise, less stocks due to high demand. To tackle such as problem, then made the stock prediction application that's enabled the user to predict stock quantity that will be sold in the future and with this certainly the company will be able to do the production along the stock keeping with the right amount on demand. If the company do keep the stocks with right amount on demand, certainly will be able to reduce the loss that happened. The built stock prediction application was based on Quadratic Trend method which has prediction mistake below 10% and this method certainly very well used because sales and stocks are closely related. This application built using Visual Basic .NET programming language and for the database is using SQL. The result of the construction of this application can give prediction about sold stock quantity in the future to the company.*

**Keywords :** *Stock prediction application, Quadratic Trend, Visual Basic.Net, SQL*