

Analisis *Technical Efficiency* Industri Farmasi di Indonesia dengan Pendekatan *Stochastic Frontier Analysis*

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ABSTRAK

Penelitian ini bertujuan untuk menganalisis tingkat efisiensi industri farmasi di Indonesia. Penelitian ini menggunakan pendekatan *Stochastic Frontier Analysis* (SFA), dengan model fungsi *cobb douglas* serta elastisitas variabel independen terhadap variabel dependen. Penelitian ini menggunakan data industri pada kurun waktu 2010-2014. Variabel yang diteliti antara lain, variabel dependen yaitu output produksi dan variabel independen yaitu modal, tenaga kerja, bahan baku dan energi. Hasil penelitian ini menunjukkan bahwa variabel dependen berpengaruh signifikan dan elastis terhadap variabel independen. Penelitian ini juga menunjukkan hasil *technical efficiency* yang efisien.

Kata kunci : *Stochastic Frontier Analysis*, *Technical Efficiency*, Elastisitas, Output Produksi

Technical Efficiency Pharmacy Industry in Indonesia with Stochastic Frontier Analysis Approach

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ABSTRACT

This study aims to analyze the efficiency level of the pharmaceutical industry in Indonesia. This study utilized Stochastic Frontier Analysis (SFA) models. This elasticity of production were calculated by cobb douglas model and translog model. In addition, the industrial data of 2010 to 2014 was taken as the source. The dependent variable is output production. The independent variable consisted of capital, labor, raw materials and energy. The result demonstrated that dependent variable significantly effect the independent variables. This study prove that technical efficiency all variables are elastic.

Keywords :Stochastic Frontier Analysis, Technical Efficiency, Elasticity, Output Production