ANALYSIS OF VOLATILITY AND VALUE AT RISK AT STOCK OF BLUECHIPS WITH ARCH-GARCH METHOD

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ABSTRACT

Stock is a represent one of the investment of financial. Blue chips is stock of recognized company nationally and have profit history, growth, and management with quality. Component which related to stock is return volatility. This volatility used to predict a risk so that can be conducted to calculate Value Risk at used to measure loss in certain range of time and after certain trust. Model which commonly use for volatility at financial analysis are Autoregressive Conditional Heteroscedasticity (ARCH) and Generalized Autoregressive Conditional Heteroscedasticity (GARCH) model. Processed data represent return of stocks of Blue chip that are PT. Charoen Pokphand Tbk (CPIN), PT. JAPFA Comfeed Indonesia of Tbk (JPFA), PT. Jasa Marga (Persero) Tbk (JSMR), PT. Lippo Karawaci Tbk (LPKR), and PT. Media Nusantara Citra Tbk (MNCN) during October 2012 until October 2013. Obtained result of return of stock varians of CPIN, JSMR, LPKR and MNCN have the character of heteroscedasticity. While stock varians of JPFA have the character of homoscedasticity. Stock of CPIN and JSMR have model of GARCH (1,1), stock of LPKR have model of GARCH ([3],[3]) and stock of MNCN have model of ARCH (1). From calculation of VaR, got some information minimum loss have investment at stock of CPIN equal to 339.400 rupiah, stock of JPFA equal to 468.500 rupiah, stock of JSMR equal to 207.100 rupiah, stock of LPKR equal to 327.560 rupiah and stock of MNCN equal to 523.000 rupiah.

Key words : ARCH-GARCH, Stock of Bluechips, Value at Risk, Volatility.