

## **ABSTRACT**

### **EL NINO EFFECT ON THE RIVER FLOW FLUCTUATIONS IN LAMPUNG PROVINCE (Case Study Sungai Way Sekampung-Bendung Argoguruh)**

**By**

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*El Nino cause drought due to changes in wind patterns in equator. That condition was due to increased sea surface temperatures in east Pacific so that the seawater surface pressure decrease. Consequently the air is supported to move from Asia to Australia which brings a lot of water vapor pass through Indonesia but does not turn into the easter Pacific. That is why in Indonesia experienced drought.*

*This study uses secondary data stream discharge weir Argoguruh in 2001-2012 from Balai Besar Wilayah Sungai Mesuji-Sekampung and SOI (Southern Oscillation Index) in 2001-2012 from Australian Bureau of Meteorology. Data analysis using Pearson Correlation to know correlation between two variable and using Weibull Methode for discharge mainstay.*

*Based on the calculation results, we conclude that El Nino is very influential in the dry season.and there is a strong correlation between the discharge and the discharge mainstay in El Nino year. Mainstay discharge is a minimum flow that must be available so that the the water needs fulfilled.and discharge in El Nin year is he minimum discharge of all he research so that if there is a strong correlation it is necessary to be vigilant. But discharge in El Nino year showed a greater rate than the discharge mainstay so despite the El Nino water needs can still be met.*

*Keywords : wet year dn dry year,El Nino, SOI*