INCREASED PRODUCTION OF PEANUT (*Arachis hypogeae l.*) VAR. KELINCI WITH VARIOUS CONCENTRATIONS PLANT GROWTH PROMOTING RHIZOBACTERIA OF MIMOSA (*Mimosa pudica* L.)

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ABSTRACT

This study aims to determine the effect of different concentration of PGPR from Mimosa (*Mimosa pudica* L.) to increase production of peanuts (*Arachis hypogea* L.) Kelinci Varieties. This research was conducted in Tegal Gede Village, Sumbersari, Jember Regency, East Java. The research started from October 2016 until January 2017. The research method used is Randomized Block Design Non Factorial with 5 Treatment namely concentrations 0 ml / l , 5 ml / l, 7.5 ml / l, 10 ml / l and 12.5 ml / l of PGPR from Mimosa (*Mimosa pudica* L.) and each treatment is repeated 5 times. The result of the research showed that the gave of PGPR of Mimosa (*Mimosa pudica* L.) had significant effect on weight of wet pod per sample, weight of wet pod per plot, dry weight of pod per sample, dry weight of pod per plot, seed weight per sample and seed weight per plot. PGPR of Mimosa (*Mimosa pudica* L.) with concentration of 10 ml / l yielded the best wet pod weight is 1960g per plot and the concentration of 12.5 ml / l gave the best influence on the dry seed weight of peanuts is 792g kelinci varieties per plot. PGPR of Mimosa (*Mimosa pudica* L.) with concentration of 12,5 ml / l gave the best plant height 28 days after planting reach 14,87 cm.

Keywords : *PGPR of Mimosa (Mimosa pudica L.), Peanut, Kelinci varieties.*