

**Aplikasi Konsentrasi Pupuk Daun Dan Proporsi Bunga Jantan Terhadap Produksi Dan Mutu Benih Pare (*Momordica charantia* L.) (Application of Leaf Fertilizer Concentration and Proportion of Male Flower To The Production and Quality Of Bitter Gourd Seed) Supervised by : Ir.Titien Suhermiatin, MP. and Taufik SP.**

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**ABSTRACT**

*The demand of bitter gourd seed might be maximally sufficient if supported by technology development, seedling science such as the existence of superior varieties and continuous availability of seeds. This research aims to investigate the effect of interaction between proportion of male flower using in pollination and concentration of leaf fertilizer to the production of bitter gourd seed. This research was conducted on November 2018 to January 2019 in Wirowongso Village, Ajung, Jember Regency and laboratory of PT. Benih Citra Asia Jember. It was applied Randomize Block Design with 2 factors and 3 replications. The first factor was application of leaf fertizier with 3 levels, there were 0,2% concentration (P1), 0,4% concentration (P2), and 0,6% concentration (P3). The second factor was proportion of male flower using in pollination with 3 levels, there were 1 female flower and 1 male flower (B1), 1 female flower and 2 male flower (B2), 1 female flower and 3 male flower (B3). The data was analyzed by f test (ANOVA) and followed by BNT 5%. The result shows that application of leaf fertilizer 4ml/l (P2) is significant on parameters percentage of fruit set, weight of filled out seed, weight of 1000 seeds, and viability (%). The proportion of 3 male flower using in pollination (B3) is significant on parameter percentage of fruit set, number of filled out seed. The interaction between application of leaf fertilizer and proportion of male flower using on pollination is significant on number of filled out seed.*

**Key words :** *Bitter gourd, Flower, Leaf Fertilizer*