

**Pengaruh Pemberian Dosis Vermikompos dan Pupuk Organik Cair terhadap Produksi dan Mutu Benih Kacang Hijau (*Vigna radiata* L.).** (*Effect of Dosing Vermicompost and Liquid Organic Fertilizer on Production and Quality of Green Bean Seeds (*Vigna radiata* L.)*). Supervisor by Ir. M. Bintoro, M.P.

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#### **ABSTRACT**

*Efforts to increase the production and quality of green bean seeds (*Vigna radiata* L.) can be done by using vermicompost and liquid organic fertilizer (POC). This research was carried out in September-December 2023, on the Umbulsari Village, Jember Regency and the seed technology laboratory, Jember State Polytechnic. The experimental design used in this research was a factorial Randomized Complete Block Design (RCBD) which consisted of two factors and was repeated 3 times. The first factor is the vermicompost treatment dose, consisting of 4 tons/ha ( $V_1$ ), 6 tons/ha ( $V_2$ ), 8 tons/ha ( $V_3$ ). The second factor is the administration of NASA POC, consisting of 5 ml/l ( $P_1$ ), 10 ml/l ( $P_2$ ), 15 ml/l ( $P_3$ ). The observation results were tested using the F test or ANOVA (Analysis of Variance). If the F test results show a significantly, carry out a further DMRT test. The research results showed that the interaction between the vermicompost dose of 8 tonnes/ha and liquid organic fertilizer 15 ml/l ( $V_3P_3$ ) had a significant effect on the number of pods planted, seed weight per plant and seed weight per hectare with values respectively 13.50 pods, 14.12 gr and 2.35 tons.*

**Key Words:** *mung beans, vermicompost dosage, POC application, seed production*