**Respon Pemberian Pupuk Kandang dan Pupuk NPK terhadap Pertumbuhan dan Produksi Benih Kacang Tanah (*Arachis hypogaea* L.) Varietas Lokal Minahasa Sulawesi Utara.** *Response of Manure and NPK Fertilizer to Growth and Production of Peanut Seeds (Arachis hypogaea L.) Local Variety Minahasa North Sulawesi.* Supervised by Ir. Hari Prasetyo, M.P

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## *ABSTRACT*

*Peanut in Indonesia has experienced a decline in production. Therefore, intensification efforts are needed through the application of manure and NPK fertilizer. This study aims to determine the response of manure and NPK fertilizer on the growth and production of peanut seeds of local varieties of Minahasa, North Sulawesi. This research was conducted from February to April 2023 in the research field of Jember State Polytechnic. The experimental design used was Factorial Randomized Group Design (RAK) which was repeated 4 times. The first factor was the dose of manure consisting of 4 ton/ha (M1) and 8 ton/ha (M2). The second factor is the dose of NPK Mutiara 16-16-16 fertilizer consisting of 90 kg/ha (P1), 120 kg/ha (P2), 150 kg/ha (P3). The research data were analyzed using Anova and continued with the DMRT test at the 5% level if it showed a significant effect. The results showed that the treatment of* manure *8 ton/ha gave a significantly different effect on plant height 45, 60, 75 HST, number of pods per plant, seed weight per plant and seed production per hectare. NPK fertilizer treatment gave a very significantly different effect on plant height 45, 60, 75 HST, seed weight per plant, and seed production per hectare.*

***Key Word*** : *Manure, NPK Fertilizer, Peanut*