

**Aplikasi POC dan Giberellin (GA3) terhadap Produksi dan Mutu Benih
Kacang Tanah (*Arachis hypogaea* L.) (Application LOF and of Gibberellin
on Peanuts Seed Production and Quality (*Arachis Hypogaea* L.).**

Supervised by Ir. Hari Prasetyo, M.P

Dhea Anggraeni

*Study Program of Seed Production Technique
Department of Agricultural Production*

ABSTRACT

*The use of NASA Liquid Organic Fertilizer (LOF) and Gibberellin is a technique to increase seed production of peanut plants (*Arachis hypogaea* L.). This research was carried out in August 2023 – January 2024 roat. Mastrip, East Krajan, Summersari, Summersari District, Jember Regency, East Java. The experimental design used was a factorial Randomized Block Design (RBD) using two factors and three replications. The first factor for NASA LOF administration is symbolized (P), namely (6 ml/l, 9 ml/l, 12 ml/l). The second factor for adding Gibberellin (GA3) is symbolized (G), namely (G1:75 ppm, G2:125 ppm, G3:175 ppm). The results showed that LOF had a very significant effect (**) on the number of pods planted (57.76), the weight of wet pods per plot (110.45 gr), the weight of wet pods per plot (1965.5 gr), the weight of dry pods per plot (71 g). .04 gr), dry seed weight per planting (55.67 gr), weight of planting seeds (55.09 gr), seed production per Potential Ha (6321.77 kg/ha), while LOF has a significant effect (*) on pod weight dry per plot (1195.16 gr), seed purity (98.95%). Gibberellin treatment had a significantly different effect (**) on flowering age (23.33 DAP), number of pods planted (56.44), weight of wet pods planted (111.26 gr), weight of wet pods per plot (1944.22 gr), dry pod weight per planting (68.31 gr), dry pod weight per plot (1246.53 gr), dry seed weight per planting (53.07 gr), planting seed weight (52.46 gr), and seed production per Ha potential (6019.85 kg/ha) while gibberellin has a real effect (*) on seed purity (98.84%).*

Key words: *Giberellin, Peanut, Liquid Organic Fertilizer (LOF) NASA,*