

Efektivitas Penggunaan Mulsa dan Penambahan Pupuk Kompos Blotong Terhadap Hasil Produksi dan Mutu Benih Tanaman Tomat (*Solanum lycopersicum* Mill.) *The Effectivity Use Of Mulch and Addition Compost Blotong for tomato plant (*Solanum lycopersicum* Mill.) seed production and quality.* **Advisor DR. Rizal, SP,MP. And Ir. Sri Rahayu, MP.**

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ABSTRACT

*Tomato cultivation techniques (*Solanum lycopersicum* Mill.) include land treatment, nursery, installation of black silver plastic mulch, fertilization, pest and disease control. In the research, mulching and the addition of composted blotong fertilizer are expected to improve the production and quality of tomato seeds. This research was conducted for 4 months (December-March) in Lumajang area especially in Mangunsari village RW 06 / RT 13 Tekung District. The research was conducted by Randomized Complete Block Design (RCBD) with 3 levels and 3 replications, the first factor was mulch usage: Mulch straw (M1), Silver Plastic Mulch (P2), Mulch of Plastic Transparent. The second factor is the addition of composted blotong fertilizer: Control (P0), 5 ton / ha (P2), and 10 ton / ha. The use of mulch showed the best result of plant height of 14 HST (21,17), plant age 28 HST (51,67), number of fruit crops (25,78), and number of seeds of fruit (513.00). The addition of blotong compost showed the best results on observations of plant height 14 and 28 HST (19.68 and 53.78), number of fruit crops (75.00), number of seeds of fruits (510.89), and no interaction at all observation parameters.*

Key words : *Tomato, Mulch Use, Addition of Blotong Compost Fertilizer*