Pengaruh Pemberian Pupuk SP-36 dan Organik Cair Terhadap Pertumbuhan Bibit Asal Setek Kopi Robusta (*Coffea canephora* Pierre) *Effect of SP-36 and Liquid Organic Fertilizer on the Growth of Coffee Seedlings from Robusta Coffee Cuttings (Coffea canephora* Pierre*). Supervisor* Ir. Sri Rahayu, MP.

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ABSTRACT

The significant increase in coffee production every year needs to be balanced with the provision of planting materials in the form of quality seeds and seedlings to meet these needs. The purpose of this study was to determine the effect of fertilizer application. The purpose of this study was to determine the effect of SP-36 and liquid organic fertilizer on the growth of Robusta coffee cuttings. The research was conducted in September 2022 – November 2022 at the Jember State Polytechnic nursery which is located at Jl. Mastrip, Krajan Timur, Sumbersari, Kec. Sumbersari, Jember Regency, East Java. The design used was factorial randomized completely block design (RCBD) with 2 factors and 3 replications. The first factor was the dose of SP-36 fertilizer which consisted of 3 levels, namely D_1 *(4 g/plant),* D_2 *(8 g/plant),* D_3 *(12 g/plant). The second factor was the POC concentration of the coffee husks which consisted of 3 levels, namely* K_1 *(30%),* K_2 *(40%),* K_3 *(50%). Data were analyzed using the ANOVA test and continued with the DMRT (Duncan's Multiple Range Test) with a level of 5%. The results showed that there was non significant difference (ns) for all parameters. The interaction between the two treatments shows a significant difference in the number of leaves 6 weeks after fertilization.The results showed that the treatment with SP-36 and liquid organic fertilizer had no significant effect on the parameters of shoot length, shoot diameter, number of leaves, leaf width, leaf length, leaf area, root length, root volume, wet stover, dry stover. The interaction between dose and concentration had a significantly different effect on the parameter number of leaves aged 6 MSP*

Key Words : *Coffee, SP-36 Fertilizer Dosage, POC Concentration*