

## **APLIKASI KOMPOS TANDAN KOSONG KELAPA SAWIT PADA PERTUMBUHAN DAN HASIL JAHE MERAH (*Zingiber officinale* Rosc.)**

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### **Abstrak**

Jahe merah berkhasiat untuk kesehatan, kecantikan maupun untuk minuman penghangat badan. Penelitian ini bertujuan untuk mendapatkan dosis pupuk kompos tandan kosong kelapa sawit (TKKS) terbaik terhadap pertumbuhan dan hasil tanaman jahe merah (*Zingiber officinale* Rosc.). Rancangan penelitian ini menggunakan Rancangan Acak Kelompok Lengkap faktor tunggal dengan taraf perlakuan terdiri atas : K0 : Kontrol, K1 = 5 ton/ha, K2 = 10 ton/ha, K3 = 15 ton/ha, K4 = 20 ton/ha, K5 = 25 ton/ha. Setiap perlakuan diulang sebanyak 4 kali sehingga diperoleh 24 satuan percobaan. Variabel yang diamati yaitu tinggi tanaman (cm), jumlah daun (helai), luas daun terlebar (cm<sup>2</sup>), jumlah batang (buah), diameter batang (mm), jumlah akar serabut (helai), panjang akar terpanjang (cm), bobot segar tanaman (g), bobot kering tanaman (mg), bobot rimpang kering (mg). Hasil penelitian menunjukkan pemberian pupuk kompos TKKS dapat meningkatkan pertumbuhan tanaman jahe muda terhadap tinggi tanaman, jumlah batang, luas daun dan diameter batang, tetapi tidak berpengaruh terhadap variabel jumlah daun, panjang akar, jumlah akar, bobot segar tanaman dan bobot kering tanaman. Dosis pupuk kompos TKKS terbaik untuk pertumbuhan jahe merah sebanyak 15 ton hingga 25 ton per hektar pada jahe merah panen muda.

**Kata kunci:** jahe merah, kompos, tandan kosong kelapa sawit

## **THE APPLICATION OF COMPOST OF OIL PALM EMPTY FRUIT BUNCHES ON GROWTH AND YIELD OF RED GINGER (*Zingiber officinale* Rosc.)**

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### **Abstract**

Red gingers are good for either health and cosmetic as well as beverages. The aim of this research is to get the best dosage of oil palm empty fruit bunch compost on growth and yield of red ginger plant (*Zingiber officinale* Rosc.). This study was conducted from October 2016 to February 2017 the village of Padang Harapan located in the city of Bengkulu, at the altitude of 16 m above sea level on the ultisol. The research design used was Randomized Completely Block Design in single factor with the treatment level consisting of: Ko: 0 ton/ha, K1 = 5 tons/ha, K2 = 10 tons/ha, K3 = 15 tons/ha, K4 = 20 tons/ha, K5 = 25 tons/ha. Each treatment was repeated four times which then obtain 24 units of experiment. The results showed that compost application can improve plant growth of young ginger on plant height, number of stem, leaf area and stem diameter, and have not influence on leaf number, leaf greenness, root length, number of roots, plant fresh weight and plant dry weight. The best amount compost for growth of red ginger is 15 tons to 25 tons per hectare at the young age of ginger.

**Keywords:** red ginger, compost, oil palm empty fruit bunches