

**APPLICATION OF EMAS BIOFERTILIZER AND PHOSPHATE  
FERTILIZER FOR PALM OIL SEED (*Elaeis guineensis* Jacq) GROWTH  
IN MAIN NURSERY**

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**ABSTRACT**

The objective of this research are to know the influence of Emas Biofertilizer and phosphate fertilizer and each factors for palm oil seed growth in main nursery. This research was arranged factorial completely randomized design with 3 replicates. The doses of Emas Biofertilizer are 0, 10, 12.5 and 15 g. The Phosphate fertilizer to use were TSP, SP-36 and Rock Phosphate (6 g  $P_2O_5$ ). The result of this research showed that combination of Emas Biofertilizer and Phosphates give the same influence to all parameters and so for Emas Biofertilizer factor. Phosphate indicate a different influence to increase plant height, increase bonggol diameter, and root volume but indicate same influence to sum of leaf, seed dry weight and absorption of P. The use of phosphate from SP-36 give the best result.

**Keywords : Palm Oil, Emas Biofertilizer, Phosphate Fertilizer.**