EFFECT OF MYCORRHIZAE APPLICATION ON THE GROWTH PERFORMANCE OF PADDY (*Oryza sativa*)

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Final year project report submitted in partial fulfilment of the requirement for the degree of Bachelor of Science (Hons.) Plantation Technology and Management

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This final year project report entitled 'Effect of Mycorrhizae Application on the Growth Performance of Paddy (Oryza sativa)' was submitted by Aicah Patuhai, in partial fulfilment of the requirement for degree of Bachelor of Science (Hons.) Plantation Technology and Management, in the Faculty of Plantation and Agrotechnology, and was approved by

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CANDIDATE’S DECLARATION

I declare that the work in this Final Year Project was carried out in accordance with the regulation of UniversitiTeknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledged as referenced work. The final year project report has not been submitted to any other academic institution or non academic institution for any other degree or qualification.

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ABSTRACT

EFFECT OF MYCORRHIZAE APPLICATION ON THE GROWTH PERFORMANCE OF PADDY (*Oryza sativa*)

A greenhouse trial was carried out to find out the effect of paddy (*Oryza sativa*) growth performance with different rate of mycorrhiza treated. Paddy were cultivated with application of four levels of mycorrhiza (mycogold®) Treatment 1 is control treatment, Treatment 2 is 20 g per pot, Treatment 3 is 40 g per pot and Treatment 4 is 60 g per pot with five replication using a Complete Randomize Design (CRD). The growth performance data which are the number of leaves and number of tillers were collected once a week until harvesting time at week 13. Other data such root weight, number of panicles, 100 grain weight and total grain weight was recorded on the last week of experiment. Meanwhile, the soil sample was analyzed every two week until harvesting time. The results showed Treatment 4 is 60 g of mycorrhiza per pot gave the best performance. Therefore the amount of mycorrhiza suggested was Treatment 4 with 60 g of mycorrhiza per pot in order to get the best performance and yield of paddy.
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