

UNIVERSITI TEKNOLOGI MARA

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

AICAH PATUHAI

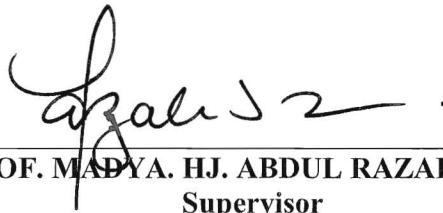
Final year project report submitted in partial fulfilment of the
requirement for the degree of
**Bachelor of Science (Hons.) Plantation Technology and
Management**

Faculty of Plantation and Agrotechnology

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APPROVAL SHEET

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



PROF. MADYA. HJ. ABDUL RAZAK BABA

Supervisor

Faculty of Plantation and Agrotechnology
University Teknologi MARA
Jasin, Melaka

MS. WAN NATASYA WAN AHMED

Project coordinator

BSc. (Hons.) Plantation
Technology and Management
Faculty of Plantation and
Agrotechnology
Universiti Teknologi Mara
Jasin, Melaka

MS. NORDIANA IBRAHIM

Head of Study Center

BSc. (Hons.) Plantation
Technology and Management
Faculty of Plantation and
Agrotechnology
Universiti Teknologi Mara
Jasin, Melaka

Date: _____

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.

In the event that my Final Year Project is found to violate the condition mention above, I voluntarily waive the right of conferment of my bachelor degree and agree to be subjected to the disciplinary rules and regulation of UniversitiTeknologi MARA.

Name of Candidate : **AICAH PATUHAI**

Candidate's ID No. : 2012495394

Programme : Bachelor of Science (Hons.) Plantation
Technology and Management

Faculty : Plantation and Agrotechnology

Title : Effect of Mycorrhizae Application on
The Growth Performance of Paddy (*Oryza
Sativa*)

Signature of Candidate : _____

Date : _____

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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Thank you very much.

AICAH PATUHAI