

**EFFECT OF PLANTING SPACING TOWARDS THE GROWTH
PERFORMANCE OF MRQ 74 USING SRI METHOD**

MUHAMMAD NASIRUDDIN BIN MUHAMMAD NABIN

**Final Year Project Proposal Submitted in
Partial Fulfilment of the Requirement For The
Degree of Bachelor of Science (Hons.) Plantation Management and Technology
in the Faculty of Plantation and Agrotechnology
Universiti Teknologi MARA**

JULY 2015

DECLARATION

This Final Year Project is a partial fulfilment of the requirements for degree of Bachelor of Science (Hons.) Plantation Technology and Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

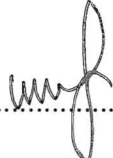
It is entirely my own work and has not been submitted to any other University or higher education institution, or for any other academic award in this University, Where use has been made of the work of other people it has been fully acknowledged and fully referenced.

I hereby assign all and every right in the copyright to his Work to the Universiti Teknologi Mara ("UiTM"), which henceforth shall be the owner of copyright in this Work and that, any reproduction or use in any form or by any means whatsoever is prohibited without a written consent of UiTM.

Candidate's signature:  Date: 10.8.2015

Name: MUHAMMAD ALASIRUDDIN

I hereby declare that I have checked this project and in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Science (Hons.) Plantation Technology and Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

Signature: 

Name of Supervisor: **WAN. NATASYA WAN. AHMED**
PENSYARAH

Position: **Fakulti Perladangan dan Agroteknologi**
Universiti Teknologi MARA (Melaka)
Kampus Jasin, 77300 Merlimau
Melaka

Date:

TABLE OF CONTENT

	<u>Page</u>
ACKNOWLEDGEMENT	ii
TABLE OF CONTENT	iii
LIST OF FIGURES	v
LIST OF TABLES	vi
LIST OF ABBREVIATIONS	vii
ABSTRACT	viii
ABSTRAK	ix
<u>CHAPTER</u>	
1 INTRODUCTION	
1.1 Background	1
1.2 Problem statement	3
1.3 Significant of study	3
1.4 Research Question	4
1.5 Objective of study	4
2 LITERATURE REVIEW	
2.1 Paddy	5
2.1.1 Taxonomic classification	5
2.1.2 Paddy MRQ 74	6
2.2 Planting spacing	6
2.3 Growth Performance	7
2.4 System Rice Intensification (SRI)	8
3 METHODOLOGY	
3.1 Experimental site	9
3.2 Planting Spacing	9
3.3 Experimental Design and Arrangement	10
3.4 Collection of Experimental Parameters	11
3.4.1 Plant Height	11
3.4.2 Fresh Weight	11
3.4.3 Number of Tiller	11
3.4.4 Biomass	11
3.5 Statistical Analysis	12
3.6 Schedule of Work	12
4 RESULT AND DISCUSSION	
4.1 Plant Height	13
4.2 Fresh Weight	14
4.3 Number of Tiller	16
4.4 Biomass	17
4.4.1 Biomass of Root	17
4.4.2 Biomass of Whole Plant	19

5	CONCLUSION AND RECOMMENDATION	21
	CITED REFERENCES	22
	APPENDICES	24
	CURRICULUM VITAE	26

ABSTRACT

This experiment was carried out from January until April 2015 at Encik Sulaiman Bin Wagiman's paddy field Kampung Kesang Tasek, Sungai Mati, Johor. This study is to determine the effect of planting spacing toward the growth performance of MRQ 74. The experiment was laid out in a complete randomized design. Three different spacing, Treatment 1 (25cm x 25 cm), Treatment 2 (30cm x 30 cm), Treatment 3 (35cm x 35 cm), was carried out. Treatment 1 (25cm x 25 cm) acted of the control for this experiment. This experiment was conducted using the System of Rice Intensification (SRI) technique. The result showed that Treatment 3 (35cm x 35 cm) got the most significant result in plant growth such as plant height, number of tiller and fresh and dry weight compared to other treatments. Considering spacing (35cm x 35 cm) found to be spacing in this study for better performance of plant growth.