

**A REVIEW: ENVIRONMENTAL CONSEQUENCES OF  
GENETICALLY MODIFIED (GM) RICE**

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**Final Year Project Report Submitted in  
Partial Fulfilment of the Requirements for the  
Degree of Bachelor of Science (Hons.) Plantation Technology and Management  
in the Faculty of Plantation and Agrotechnology  
Universiti Teknologi MARA**


**JULY 2016**

## DECLARATION

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

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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.

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## **ACKNOWLEDGEMENTS**

Alhamdulillah, great thanks to the great Almighty ALLAH s. w.t. who grants me knowledge, strength and determination to accomplish my Final Year Project report successfully. I would like to express my thanks to Miss Hamizah Binti Othman as my supervisor who had provided motivation and guidance to me in completing this report on time. It was a great privilege to me to conduct this Final Year Project report under his supervision.

I am grateful and thankful to all lecturers of the Bachelor of Science (Hons) Plantation Technology and Management program for their encouragements and helping me in getting information and also guidance throughout the preparation of this report.

I am grateful and thankful also to my family, my classmate and friends who have helped me in planning and completion of this and contributing ideas.

NORZELAWATI BINTI MUHAMAD

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## ABSTRACT

### A REVIEW: ENVIRONMENTAL CONSEQUENCES OF GENETICALLY MODIFIED (GM) RICE

Golden rice is one of the genetically modified variety of *Oryza sativa* that been transformed to synthesize beta carotene. This GM rice contains vitamin A precursors. Golden rice is not yet been fully commercialized all over the world until recent 2016. This is the results of some objection from different perspective. Some of researchers have found that golden rice have no risk to human wellbeing, no adverse side effects on other organisms and give benefits to environmental consequences. But in addition, some of others researchers have their own explanation that GM rice give impacts and risks to human wellbeing, adverse side effects on other organisms and environmental consequences. A study of environmental consequences of GM rice which need to combine all different opinions from different sources and do research of latest developed GM rice and explore what their uses. Full study about benefits, risks and impacts of GM rice can solved the problem of human wellbeing, adverse side effects on other organisms and environmental consequences.

**Keywords:** genetically modified, benefits, impacts, risks