

COMPARISON BETWEEN DISSOLVED
OXYGEN PRODUCED BY 1 HP
AND 2 HP PADDLE WHEEL
AT MELAKA CELL FARMING Sdn. Bhd
DI KAMPUNG TEBING, MERLIMAU
MELAKA

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COMPARISON BETWEEN DISSOLVED OXYGEN PRODUCED BY 1 HP
AND 2 HP PADDLEWHEEL AT MELAKA CELL FARMING SDN.BHD (MCF) IN
KAMPUNG TEDUNG, MERLIMAU MELAKA

By

IZWAN ILIADI BIN ILIASSA

Research Report submitted in partial fulfillment of
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**FAKULTI AGROTEKNOLOGI DAN SAINS MAKANAN
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**PENGAKUAN DAN PENGESAHAN LAPORAN
PROJEK ILMIAH I DAN 11**

Adalah ini diakui dan disahkan bahawa laporan ilmiah bertajuk:

COMPARISON BETWEEN DISSOLVED OXYGEN PRODUCED BY 1HP (HORSE POWER) AND 2HP PADDLE WHEEL AT MELAKA CELL FARMING SDN.BHD (MCF) IN KAMPUNG TEDUNG, MERLIMAU MELAKA oleh **IZWAN ILIADI BIN ILIASSA** No. Matrik **UK 14552** telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Agroteknologi(Akuakultur) sebagai memenuhi sebahagian daripada keperluan memperolehi Ijazah **SARJANA MUDA SAINS AGROTEKNOLOGI (AKUAKULTUR)**, Fakulti Agroteknologi dan Sains Makanan, Universiti Malaysia Terengganu.

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DECLARATION

I hereby declare that the work in this thesis is my own except
for quotations and summaries which have been duly
acknowledged

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ABSTRACT

This study is about comparison between dissolved oxygen produced by 1 Hp (horse power) and 2 Hp paddle wheel that was conducted at Melaka Cell Farming Sdn.Bhd (MCF) in Kampung Tedung, Merlimau Melaka. This study have being done because the farmer (in shrimp farming) information is not generally know because there are no study about it topic before this. Therefore, this project was conducted to compile information for future use. Other than that, this study is to know about the operation and comparison between dissolved oxygen produced by this two type of paddle wheel (1 hp and 2 hp). This study also to get knowledge about method of operation paddle wheel and what type more economic and practical uses.

ABSTRAK

Kajian ini telah dijalankan bagi menilai dan mengesan perbezaan serta perbandingan di antara oksigen terlarut yang dihasilkan oleh 1 kuasa kuda (1Hp) dan 2 kuasa kuda (2Hp) paddle wheel telah dijalankan di kolam ternakan udang harimau milik syarikat Melaka Cell Farming Sdn.Bhd di Kampung Tedung, Merlimau, Melaka. Kajian ini dijalankan bagi membantu para penternak udang yang kekurangan sumber dan pengetahuan dalam menilai keberkesanan sesuatu jenis paddle wheel mengikut keluasan dan kesesuaian kolam. Kajian ini telah dijalankan selama 10 hari dengan mengambil data mengikut pelbagai corak perubahan cuaca dan iklim persekitaran. Hasil kajian mendapati bahawa perbezaan oksigen terlarut yang dihasilkan di antara 1 kuasa kuda dan 2 kuasa kuda paddle wheel dalam kolam yang bersaiz setengah ekar (50m x 50m) akan mencapai keseimbangan apabila paddle wheel beroperasi selama 4 jam secara berterusan.