

SUPERVISOR'S DECLARATION

I hereby declare that I have checked this thesis and in my opinion, this thesis is adequate in terms of scope and quality for the award of the degree of Bachelor of Civil Engineering.

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THE EFFECT OF SBE ON THE PROPERTIES OF CEMENT SAND BRICK

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A report submitted in partial fulfillment of the requirements for the award of the
degree of Bachelor of Civil Engineering

Faculty of Civil Engineering and Earth Resources
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JANUARY 2017

STUDENT'S DECLARATION

I hereby declare that the work in this thesis is my own except for quotations and summaries which have been properly acknowledged. The thesis has not been accepted for any degree and is not concurrently submitted for award of other degree.

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DEDICATION

Praises be to Allah, the Lord and Sustainer of All the Worlds

All glory be to Him.

To my beloved families,

To my fellow friends and educators.

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LIST OF ABBREVIATIONS

SBE	Spent bleaching earth
MPOB	Malaysian palm oil board
NGO	Non-governmental organization
wt%	Weight percentage
SC	Scandium
CO ₂	Carbon dioxide
FFA	Free fatty acid
Fe	Iron
Cu	Copper
OPC	Ordinary Portland Cement