



SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY
COLLEGE OF GRADUATE STUDIES

**Performance and Emissions Characteristics
of Compression Ignition Engine Using
Jatropha Methyl-Diesel Fuel Blends**

**خصائص أداء وانبعاثات محرك الإشعال بالضغط باستخدام مزيج
الوقود الحيوي من الجاتروفا مع وقود الديزل**

**SUBMITTED IN PARTIAL FULFILLMENT OF THE DEGREE OF M.SC IN MECHANICAL
ENGINEERING (power)**

By:

Awab Osama Abdel-Majid Othman

(B.Sc. (Mechanical Engineering (Power), SUST, 2007)

Supervisor:

Dr. Ali Mohammed Hamdan Adam

June 2013

CHAPTER 1

INTRODUCTION

CHAPTER 2

LITERATURE REVIEW

CHAPTER 3

BIODIESEL PREPARATION

CHAPTER 4

EXPERIMENTAL SETUP

CHAPTER 5

RESULTS

&

DISCUSSION

CHAPTER 6

CONCLUSION

&

RECOMMENDATIONS