

بسم الله الرحمن الرحيم

Sudan University of Science and Technology
College of Graduate Studies

**A Minimization Maintenance Method for Pumps
in Sugar Factories (Kenana Sugar Factory)**

طريقة لتقليل تكلفة صيانة المضخات في مصانع السكر

(مصنع سكر كنانة)

A Thesis submitted in partial fulfillment to
the College Graduate Studies: Sudan University
of Science and Technology for the requirement of
the degree of Master of Science in Mechanical
Engineering (Power)

By:

Nizar Babiker Suliman Elsafi

Supervisor:

Dr. Elhadi Badawi Mahgoub

October 2009

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

(وَالْعَصْرُ ۝ إِنَّ الْإِنْسَانَ لَفِي حُسْرَ ۝ إِلَّا الرَّّئِنُ ۝ أَمْنَوْ ۝ وَعَمِلُوا الصَّالِحَاتَ
وَتَوَاصَوْ ۝ بِالْحَقِّ ۝ وَتَوَاصَوْ ۝ بِالصَّابَرَ ۝)