



بسم الله الرحمن الرحيم

Sudan University of Science

&

Technology

College of Graduate Studies



The Use of Gum Arabic In Concrete Mixes

استخدام الصمغ العربي فى الخلطات الخرسانية

**A Thesis Submitted in Partial Fulfillment of the
Requirements of the Degree of Master of Science in Civil
Eng. (Construction Eng) to Civil Eng Dept, College of Eng.**

Prepared by:

Nasir Sidig Abdeljaleel Omer

Supervised :

Dr. Ali Eltom Hassaballa

July 2011