

DEDICATION

To my Father who gave me the inspiration

To my Mother who always support

To my Brothers and Sisters

To my Family and Friends

To Asim who keep annoying me to finish this Research

To Hind, Sarah and Tagwa, it couldn't be done without you

Acknowledgment

I would like to thank my supervisor, Dr. Osama Mohamed for his guidance. Special thanks to all engineers that spend time answering the questionnaire. Also I would like to thank Sudanese Environment Conservation Society (SECS), especially Dr. Nadir Mohamed for their help. And special thanks to my friend for helping in delivery of questionnaire. Thank you all...

Abstract

Construction as industry has a significant effect on Environment. It consumes resources and energy, and generates Construction waste.

Sustainable construction is a holistic process aiming to restore and maintain harmony between the natural and built environments, and create settlements that affirm human dignity and encourage economic equity.

The aim of this research was to investigate how Sudanese Construction Companies interpret and implement Sustainable Construction.

A questionnaire had been designed and delivered to companies to investigate about Sustainable Construction. From the analysis of data gathered from questionnaire, it has been clear that no imperceptible application of Sustainable Construction.

The major barriers are Cost, Clients and lack of Government legislations in regard with issue.

The work must be done to increase the level of awareness and understanding of Sustainable construction in Sudan and Government should identify laws and regulations to limit the impact of Construction Industry upon environment.

ملخص البحث

التشييد كصناعة له تأثير كبير على البيئة، والذي يستهلك الموارد، الطاقة وينتج مخلفات التشييد.

التشييد المستدام هو عملية شاملة تهدف إلى استعادة والحفاظ على الوئام بين البيئات الطبيعية والمبنية ، و إنشاء المستوطنات التي تؤكد كرامة الإنسان وتشجع العدالة الاقتصادية. وقد كان الهدف من هذا البحث هو معرفة كيف تقوم شركات التشييد السودانية بتفسير وتنفيذ التشييد المستدام. ولذلك تم عمل استبيان وتوزيعه على شركات التشييد للتحري عن التشييد المستدام . ومن تحليل البيانات التي تم جمعها من الاستبيان فقد كان من الواضح أنه لا يوجد تطبيق يذكر لمفهوم التشييد المستدام. وتمثلت العوائق الرئيسية في التكلفة والعملاء و عدم وجود تشريعات حكومية تختص بالبيئة. لذا يجب العمل على زيادة مستوى الوعي والفهم للتشييد المستدام في السودان و ينبغي للجهات المسئولة أن تحدد القوانين واللوائح للحد من تأثير صناعة التشييد على البيئة.

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