

DEDICATION

I dedicate this research to my beloved parents and dear husband, who are the source of my inspiration, encouragement, guidance and happiness, and who share my goals and aspirations. May Almighty ALLAH bless and protect them.

To my beauty ... Haneen, Wod, Jood

Acknowledgement

First of all, gives thanks to Allah ,,,

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Finally, I indebted to the civil engineering department in facilitating our difficulties, which made the completion of this project possible.

المستخلص

شهدت صناعة التشييد في السودان في السنوات الأخيرة نمو بصورة متسارعة وظهور المشاريع الضخمة والمشاريع الإستراتيجية ودخول الشركات الأجنبية ذات الأسماء الكبيرة ، مما أدى ذلك النمو لدخول التقنيات الحديثة في مشاريع التشييد وهذا المعدل السريع في حركة التشييد لم يقابله وجود الخبرات والعمالة المؤهلة والمدربة والقدرات المطلوبة لهذا النشاط العمراني المتسارع .

يهدف هذا البحث لمعرفة العوامل الرئيسية التي تؤثر على تكلفة التشييد في السودان وتم تصميم الإستبيان لمعرفة تلك العوامل.

تم إجراء مسح في ولاية الخرطوم عاصمة السودان وتم تنفيذه حيث ضم خمسون شركة كعينات لهذه الدراسة. اشتملت هذه الدراسة على اختبار 40 عاملاً رئيسياً يؤثر على تكلفة التشييد في السودان ، تم إستخدام برنامج التحليل الإحصائي (SPSS Statistical Package For Social Science) حيث رتبت العوامل المؤثرة على تكلفة مشاريع التشييد بناء على مؤشر الأهمية وتم مناقشة الإرتباط والتوافق بين آراء المشاركين في هذه الرسالة .

إن شدة هذه العوامل المقاسة بمستوى الأهمية والمرتبة وفقاً لمؤشر درجة الخطورة أشار إلى أن عوامل التضخم والتغييرات في التصميم وزيادة الضرائب إحدى العوامل التي تؤثر على تكلفة المشاريع .

وبناء على هذه الدراسة وضعت توجيهات لتكون سهلة الإستخدام لتقييم وضبط العوامل التي تؤثر على التكلفة في شركات التشييد كما تم ذكر مجموعة من التوصيات .

Abstract

The construction industry in Sudan has witnessed rapid growth in recent years, the emergence of mega projects and strategic projects and the entry of foreign companies of large names. This has led to the growth of the entry of modern technologies in construction projects, this rapid rate of construction movement was not matched by the presence of qualified and trained expertise and manpower required for this accelerated activity.

This research discusses the main factors that affect the construction cost in Sudan, The questionnaire was designed to identify these factors.

A survey in Khartoum state the capital of Sudan was conducted, which included 50 companies as samples for this study. This survey resulted 40 major factors which affect the construction cost in Sudan their factors tested by the statistical analysis program was used is SPSS (Statistical Package for Social Science), The elements influencing the cost of construction projects were arranged on the basis of the importance index and the correlation and consensus between the participants in this research was discussed. According to the risk score index the inflation rates, design changes and tax increases are factors that affect the cost of projects.

Based on this study, guidelines have been developed to be easy to use to evaluate and control factors affecting cost in construction companies and a set of recommendations have been mentioned.

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List of Symbols

Symbol	Abbreviation
SPSS	Statistical Package for Social Science
RII	Relative Importance Index
W	Weighting for each factor by respondents
N	Total number of sample
n1	Number of respondent for very high
n 2	Number of respondent for high
n 3	Number of respondent for moderate
n 4	Number of respondent for low
n 5	Number of respondent for very low
CIOB	Chartered Institute of Building
AACE	Association for Advancement of Cost Engineering