Construction Projects Tender Bidding Using

Economic Analysis in Iraq

By

Zaid Mosleh Hasan

Supervisor

Dr. Ibrahim A. Mohammed

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وَقُل رَبِّ زِدْنِي عِلْمًا

صدق الله العظيم
سورة طه (114)
DEDICATION

This thesis is dedicated to the memory of my best friend Eng. Ali Salih Al-Nooman, who passed away before attending my master studies viva.

My parents
My wife & Children {Noor, Ali, Harith}
Brothers & Sister

&

Friends

Without your enormous help, and unconditional support I would have never achieve success today.
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I am very grateful to Allah for his graces, and blessing to complete this study.

My deepest thanks& appreciation go to my supervisor Dr. Ibrahim A. Mohammed for his kind help, support, and guidance.

Immeasurable gratitude and admiration are extended to my lecturers at Isra University, and to everyone who taught me at every stage of my life.
Authorization Form

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This Thesis (Construction Projects Tender Bidding Using Economic Analysis in Iraq) was Successfully Defended and Approved on __________ 2017

Examination committee signature

Dr. Ibrahim A. Mohammed (Supervisor) ________________
Associate Professor of Civil Engineering
Isra University

Dr. Taiseer Rawashdeh (Member) ________________
Associate Professor of Architectural Engineering
Isra University

Prof. Dr. Sultan A. Tarawneh (Member) ________________
Professor of Civil Engineering
Mutah University
Abstract

The research aims at using economic analysis in bidding tenders through designing of a specific simulation software easy to use in tender bidding to achieve the lowest costs paid by employers and to ensures the balancing of all the items prices without being restricted to views of tender bidding analysis committees and their ability to perform balance work, leading to not delay the projects.

The research methodology including the review of previous researches and studies, and adopted techniques in the bidding of contracting as well as the study of financial and economic analysis approaches and sensitivity analysis, the necessary data collected for this study is from the Iraqi Ministry of Planning which represents the study population. Three projects associated with different ministries were selected, they are residential almajer Project, public health and Nahrain University project as a sample of the study population, these data represent of priced quantities schedule and time schedule provide by contenders contractors on the contract; then the sample population data were analyzed through the use of a designed simulation software to clear the benefits of using economic analysis for tender bidding.

The study found several conclusions and recommendations and the most important of these conclusions is that conventional methods adopted in the tenders bidding do not give the best results because there is no interest with economic analysis and its compliance with the final price submitted by contractors In addition to that the performance of balance in item prices by members of tender analysis committees is not usually accurate because of the difference in the personal views of the members of the committee, as the use of economic analysis and in particular the net present value
gave the best results through calculation of resulting loss in contracts which referred on the base of the final price.

The study recommended the use of economic analysis especially the net present value for tenders bidding to achieve full control to prevent bidding of any contracts which manipulating with its item prices in order to get them.
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<td>Equivalent Tender Price Model</td>
</tr>
<tr>
<td>MCDM</td>
<td>Multi Criteria Decision Making</td>
</tr>
<tr>
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<td>Multi-Attribute Decision-Making</td>
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<td>Multi-Objectives Decision-Making</td>
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