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AN APPRAISAL ON PRICING RISK FACTOR AT TENDER STAGE

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Declaration

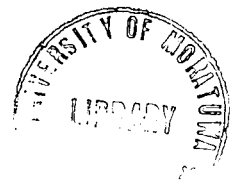
I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by other person or material to which to a substantial extent has been accepted for the award of any other degree or diploma of a university or of any other institute of higher education except where the acknowledgment is made or mentioned as reference.

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Abstract

Determining a fair margin of risk that forms a part of mark-up in a bid is a crucial issue when pricing bill of quantities at a tender. The results indicates that risk is not adequately priced by almost all the local contracting firms but they often use experience, intuition, rule of thumb or guesswork.

However, in the present day context of competitive business environment, it is time a new emphasis placed on identifying and assessing risk factor as precise as possible. Hence, the thesis is aimed to examine closely and objectively the risk factor involved in pricing construction projects and to propose a way of assigning a monetary value to the risk factor so as to arrive at a reasonable margin of risk and a contingency sum.

At this exercise, various risk management techniques such as risk premium, sensitivity testing, monte-carlo simulation, utility theory, risk adjusted discount rate and expected monetary value etc have been commentated including their relative merits, demerits and practical limitations.



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Further, the contractual provisions as to apportionment of risk in tender and contract documents have also been discussed with special emphasis on ICTAD Conditions of Contract Revised in January 1989, conditions by which most of local building contract are governed.

A statistical approach, one that is already developed, to decide on the sum of contingency allocation supported with a worked example extracted from building schedule of rates is also suggested for the quantity surveyors to adopt in their pre-tender pricing exercises.

The research concludes with a proposal of guidelines and recommendations on how to cope with the risk factor. It is the author's belief that these guidelines will benefit both construction contracting and consultancy firms.

Table of Contents

Title	Page
Acknowledgement	I
Declaration	II
Abstract	111
Contents	IV
List of Table	VI
List of Figures	VII
List of Abbreviation	VIII
 Chapter One – Introduction	
1.1 Background to the research topic	1
1.2 Significance of study	1
1.3 Objectives	2
1.4 Limitations	2
1.5 Research methodology	3
1.6 Chapter organization	3
 Chapter two – Theory, Application and Pricing of Risk	
2.1 The term ‘Risk’	7
2.2 What is NOT risk management	8
2.3 Necessity of managing risk at tender stage	8
2.4 Risk involvement in tender documents	9
2.5 Risk involvement in substructure works	10
2.6 Existence of many Standard Method of Measurement	13
2.7 Non adoption of standard phraseology	14
2.8 Price escalation	14



2.9	Risk allocation in Conditions of Contract	17
2.10	Procurement system	19
2.11	Factors affecting mark-up decision	20
2.12	Risk identification	21
2.13	A checklist approach by ICTAD	22
2.14	Towards assessing risk	23
2.15	Risk response	29

Chapter Three – Quantification of Contingency

3.1	Introduction	33
3.2	Theoretical development	35

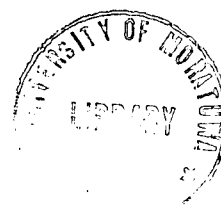
Chapter Four – Data collection and Analysis

4.1	Questionnaire survey	46
4.2	Informant organization	46
4.3	Specific information anticipated through questionnaire 01	47
4.4	Specific information anticipated through questionnaire 02	48
4.5	Response	48
4.6	Data analysis	48

Chapter Five-Conclusion

5.1	Conclusion	51
5.2	Further recommendations	54

Appendix 01-Numerical sample calculation	56
Appendix 02-Summary of data collection and analysis	64
Appendix 03-Questionnaire	69
Reference	77



List of Tables

Table No	Description	Page No
1	BSR sample	56
2	Expected value and standard deviation in input quantities	57
3	Pricing of inputs	57
4	Expected value and standard deviation in input prices	58
5	Expected value and standard deviation of rates	58
6	Expected value and standard deviation of BOQ items	59
7	BOQ item quantities	59
8	Expected value and standard deviation of BOQ item qty	60
9	Probabilistic BOQ	61
10	Percentage contribution of each bill item to project cost variance	62
11	Traditional BOQ	62
12	Contractor identification	64
13	Findings of questionnaire-Contractor	65
14	Findings of questionnaire-Consultant	66
15	Binomial test results summary sheet	67
16	Chi-square test results summary sheet	67

List of Figures		Page
Figure 1	Utility maximizing choice	26
Figure 2	Utility curve depicting risk attitude	27
Figure 3	An individual's generalized utility curve	27
Figure 4	Risk management framework	31



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List of Abbreviations

BOQ	Bill of Quantities
BSR	Building Schedule of Rates
CLT	Central Limit Theorem
EV	Expected Value
ICTAD	Institute for Construction, Training and Development
n/s	not significant
s	significant
SMM	Standard Method of Measurement



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