

TABLE OF CONTENTS

| | |
|---|------|
| COVER PAGE | i |
| LETTER OF APPROVAL | ii |
| DECLARATION | iii |
| ACKNOWLEDGEMENT | iv |
| TABLE OF CONTENTS | v |
| LIST OF TABLES | viii |
| LIST OF FIGURES | x |
| ABSTRACT | xi |
| INTISARI | xii |
| CHAPTER I INTRODUCTION | 1 |
| 1.1. Background | 1 |
| 1.2. Problem Formulation | 2 |
| 1.3. Limitations | 2 |
| 1.4. Research Objectives | 3 |
| 1.5. Research Benefits | 3 |
| CHAPTER II LITERATURE REVIEW | 4 |
| 2.1. Knowledge Management in Construction Industry | 4 |
| 2.2. Knowledge Management Process | 5 |
| 2.3. Knowledge Management Strategy | 6 |
| 2.4. Project complexity | 7 |
| 2.5. Organization size | 8 |
| 2.6. Research Position | 8 |

| | |
|---|----|
| CHAPTER III THEORETICAL BACKGROUND | 10 |
| 3.1. Knowledge | 10 |
| 3.2. Knowledge Management | 11 |
| 3.3. Knowledge Management Strategy | 12 |
| 3.4. Knowledge Management Process | 12 |
| 3.4.1. Knowledge Creation | 12 |
| 3.4.2. Knowledge Storage and Retrieval | 13 |
| 3.4.3. Knowledge Transfer and Sharing | 14 |
| 3.4.4. Knowledge Application | 15 |
| 3.5. Project complexity | 16 |
| CHAPTER IV RESEARCH METHOD | 18 |
| 4.1. Target Population and Sample | 18 |
| 4.2. Research Tools | 18 |
| 4.3. Theoretical models | 19 |
| 4.4. Research Stages | 21 |
| CHAPTER V RESULTS AND DISCUSSIONS | 25 |
| 5.1. Instrument Adaptation | 25 |
| 5.2. Description of Research Respondent | 29 |
| 5.3. Testing for research instrument | 31 |
| 5.3.1. Normality testing | 31 |
| 5.3.2. Validity testing | 33 |
| 5.3.3. Reliability testing | 39 |
| 5.4. Exploratory Factor Analysis | 46 |
| 5.4.1. Testing Assumption for Factor Analysis | 46 |
| 5.4.2. Determining the Number of Factors | 48 |

| | | |
|-----------------------|--|----|
| 5.4.3. | Factor Loading | 52 |
| 5.4.4. | Summated scale | 56 |
| 5.5. | Description of Key Variables | 56 |
| 5.5.1. | Descriptive Statistics (Univariate Analysis) | 56 |
| 5.5.2. | Testing Correlation of Independent Variables and Dependent Variables | 58 |
| 5.6. | Testing Classical Assumption for Regression | 62 |
| 5.6.1. | Testing Normality Distribution for Residuals | 62 |
| 5.6.2. | Testing Heteroscedasticity | 63 |
| 5.6.3. | Testing Autocorrelation | 64 |
| 5.6.4. | Testing Multicollinearity | 65 |
| 5.6.5. | Data Transformation | 65 |
| 5.7. | Testing Hypothesis | 66 |
| 5.8. | Cluster Analysis | 69 |
| 5.8.1. | Determining number of clusters | 69 |
| 5.8.2. | Determining cluster members | 69 |
| 5.8.3. | Validity testing for cluster analysis result | 70 |
| 5.8.4. | Interpreting formed cluster | 71 |
| 5.9. | Discussion | 74 |
| CHAPTER VI CONCLUSION | | 76 |
| 6.1. | Conclusion | 76 |
| 6.2. | Recommendation | 76 |
| REFERENCES | | 77 |
| APPENDIX | | 84 |