

Appendix

มหาวิทยาลัยราชภัฏธนบุรี

## Appendix A

Letter Expert Invitation

มหาวิทยาลัยราชภัฏธนบุรี



No. 0642.09 (4)/72

Graduate Study Program  
Dhonburi Rajabhat University  
172 Itsaraphap Rd., Thonburi  
Bangkok 10600

July 6, 2023

Subject Invitation Letter for Expert to Validate Research Instruments

Dear Dr.Thanasak Chaiyavech

Mrs. Li Lizhou, a graduate student in MBA (Master in Business Administration Program) of Dhonburi Rajabhat University, is currently working on her independent study entitled "The Influence of Organizational Factors on Risk Management among Construction Industries in China", having Dr.Sittichai Farlangthong as his principal advisor.

In lieu with this, the Graduate Study Program would like to request your expertise to validate the research tools used. Details will be informed by the researcher onwards.

We hopefully could have your assistance on this matter as to further academic benefits and would hereby like to express our thanks to you.

Best regards,

*Sirikun Buakeaw*

(Lect. Sirikun Buakeaw)

Director of Graduate Study Program

Graduate Study Program  
Tel. 0-2890-1801 ext. 5  
E-mail [graduate@dru.ac.th](mailto:graduate@dru.ac.th)  
Website <https://grad.dru.ac.th>

I hereby approve the research instrument validity.

*T. Chaiyavech*

(Dr.Thanasak Chaiyavech)

Date *26/7/66*

\*Remark: This letter would be failed for reference use with the absence of expert's signature.



No. 0642.09 (4)/73

Graduate Study Program  
Dhonburi Rajabhat University  
172 Itsaraphap Rd., Thonburi  
Bangkok 10600

July 6, 2023

Subject Invitation Letter for Expert to Validate Research Instruments

Dear Mr. Paranyu Tanarudee

Mrs. Li Lizhou, a graduate student in MBA (Master in Business Administration Program) of Dhonburi Rajabhat University, is currently working on her independent study entitled "The Influence of Organizational Factors on Risk Management among Construction Industries in China", having Dr.Sittichai Farlangthong as his principal advisor.

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Best regards,

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(Lect. Sirikun Buakeaw)

Director of Graduate Study Program

Graduate Study Program  
Tel. 0-2890-1801 ext. 5  
E-mail graduate@dru.ac.th  
Website <https://grad.dru.ac.th>

I hereby approve the research instrument validity.

*P. Tanarudee*

(Mr. Paranyu Tanarudee)

Date 26/7/23

\*Remark: This letter would be failed for reference use with the absence of expert's signature.

No. 0642.09 (4)/74



Graduate Study Program  
Dhonburi Rajabhat University  
172 Itsaraphap Rd., Thonburi  
Bangkok 10600

July 6, 2023

Subject Invitation Letter for Expert to Validate Research Instruments

Dear Dr.Pinpatsanee Pharomsiri

Mrs. Li Lizhou, a graduate student in MBA (Master in Business Administration Program) of Dhonburi Rajabhat University, is currently working on her independent study entitled "The Influence of Organizational Factors on Risk Management among Construction Industries in China", having Dr.Sittichai Farlangthong as his principal advisor.

In lieu with this, the Graduate Study Program would like to request your expertise to validate the research tools used. Details will be informed by the researcher onwards.

We hopefully could have your assistance on this matter as to further academic benefits and would hereby like to express our thanks to you.

Best regards,

*Sirikun Buakeaw*

(Lect. Sirikun Buakeaw)

Director of Graduate Study Program

Graduate Study Program  
Tel. 0-2890-1801 ext. 5  
E-mail [graduate@dru.ac.th](mailto:graduate@dru.ac.th)  
Website <https://grad.dru.ac.th>

I hereby approve the research instrument validity.

*P.P.*  
(Dr.Pinpatsanee Pharomsiri)

Date *26/7/66*

\*Remark: This letter would be failed for reference use with the absence of expert's signature.

## Appendix B

IOC Test Results

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## IOC Test Results

Evaluation results of the experts examine the questionnaire.  
The Influence of Organizational Factors on Risk Management among  
Construction Industries in China

### Part 1 General information of respondents

General information	comment			total	IOC	interpret
	person	person	person			
1. Gender <input type="checkbox"/> Male <input type="checkbox"/> Female	1	1	1	3	1.00	OK
2. Age <input type="checkbox"/> 18-20 <input type="checkbox"/> 21-25 <input type="checkbox"/> 26-30 <input type="checkbox"/> 31-35 <input type="checkbox"/> 35+	1	1	1	3	1.00	OK
3. Working Time <input type="checkbox"/> Less than 1 year <input type="checkbox"/> 1-2 years <input type="checkbox"/> 2-3 years <input type="checkbox"/> 3-4 year <input type="checkbox"/> 5 years+	1	1	1	3	1.00	OK
4. Work Department <input type="checkbox"/> Risk Evaluation <input type="checkbox"/> Risk Treatment <input type="checkbox"/> Risk Containment <input type="checkbox"/> Others	1	1	1	3	1.00	OK
5. Position Level <input type="checkbox"/> Freshman <input type="checkbox"/> Junior <input type="checkbox"/> Senior <input type="checkbox"/> Management <input type="checkbox"/> Others	1	1	1	3	1.00	OK

## Part 2 Opinions on Risk Management

Opinions on risk management	comment			total	IOC	interpret
	person	person	person			
<b>Risk Impact</b>						
I believe that construction project risks should be evaluated based on their potential impact on safety?	1	1	1	3	1.00	OK
I believe that project risks should be evaluated based on their potential impact on cost?	1	1	1	3	1.00	OK
I believe that risks that have a higher impact on the environment should be given priority over others?	0	1	1	2	0.67	OK
I consider that the risk impact is important to risk management.	1	1	1	2	0.67	OK
<b>Risk Nature</b>						
I believe that knowing the likelihood and frequency of a particular risk can help in mitigating it?	1	1	1	3	1.00	OK
I believe that some risks can be more easily mitigated than others, based on their nature?	1	1	1	3	1.00	OK
I believe that the nature of nature is unpredictable.	1	1	1	3	1.00	OK
The nature of risk is the aspect that the risk management should pay attention to.	1	1	1	3	1.00	OK
<b>Strategy Priority</b>						
I believe that construction projects can be successful even with limited risk management strategies?	1	1	1	3	1.00	OK
I think that regular risk management reviews can help improve the success rate of construction projects?	1	1	1	3	1.00	OK



Opinions on risk management	comment			total	IOC	interpret
	person	person	person			
I believe that risk management should be more prioritized than other strategies.	0	1	1	3	0.67	OK
Risk management strategy should be implemented for the first sequence.	-1	0	1	3	0.67	OK
<b>Rules and Regulations</b>						
To what extent do I believe that following rules and regulations in the construction industry is important for managing risks?	1	1	1	3	1.00	OK
I believe that strict adherence to rules and regulations can help manage risks in construction projects?	1	1	1	3	1.00	OK
I believe that non-compliance with rules and regulations puts construction projects at a higher risk of failure?	1	1	1	2	0.67	OK
I believe that non-compliance with rules and regulations puts construction projects at a higher risk of failure?	-1	-1	-1	0	0.00	Cut
I believe that following rules and regulations in the construction industry is important for managing risks?	-1	-1	-1	0	0.00	Cut
I believe that strict adherence to rules and regulations can help manage risks in construction projects?	1	1	1	3	1.00	OK

### Part 3 Risk Management

Risk Management	comment			total	IOC	interpret
	person	person	person			
<b>Risk Management</b>						
I think risk identification is an important factor of construction project risk management.	1	1	1	3	1.00	OK
I think risk analysis It identifies the nature of the risk that will affect the business or the trend of the risk that may occur.	1	1	1	3	1.00	OK
Risk Mitigation Plan is reduction internal control system or strategy is an important factor in the outcome of risk management.	0	1	1	2	0.67	OK
I think the risk monitoring of a construction project should be assessed based on the potential impact on safety?	0	1	1	2	0.67	OK

Risk Impact = 3.34

Risk Nature = 4.00

Strategy Priority = 3.34

Rules and Regulations = 3.67

Risk Management = 3.34

Total =  $17.69 \div 20 = 0.88$

concluded that

Yes, because the content validity is higher than the threshold value. which can be used for further research.

## Appendix C

Reliability

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## Reliability

Scale: ALL VARIABLES

Case Processing Summary			
		N	%
Cases	Valid	30	100.0
	Excluded <sup>a</sup>	0	.0
	Total	30	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.805	.810	22

## Appendix D

Questionnaire

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# Questionnaire

## Questionnaire Research on the Influence of Organizational Factors on Risk Management among Construction Industries in China

**Instruction:** Please mark ✓ into the square corresponding to your opinion

### Part 1 General information of respondents

1. Gender

- Male  Female

2. Age

- 18-20  21-25  
 26-30  31-35  
 35+

3. Working Time

- Less than 1 year  1-2 years  
 2-3 years  3-4 years  
 5 years+

4. Work Department

- Risk Evaluation  Risk Treatment  
 Risk Containment  Others

5. Position Level

- Freshman  Junior  
 Senior  Management  
 Others

## Part 2 Opinions on Risk Management

Level 5 = Opinion is at the highest

Level 4 = Opinion is at a high

Level 3 = Moderate opinion

Level 2 = Opinions are at a low

Level 1 = The opinion is very low

Assessment Topics	Opinion Level				
	5	4	3	2	1
<b>Risk Impact</b>					
1. I believe that construction project risks should be evaluated based on their potential impact on safety?					
2. I believe that project risks should be evaluated based on their potential impact on cost?					
3. I believe that risk management should be prioritize as much as other strategies in order to progress the construction project					
4. I consider that the risk impact is important to risk management.					
<b>Risk Nature</b>					
1. I believe that knowing the likelihood and frequency of a particular risk can help in mitigating it?					
2. I believe that some risks can be more easily mitigated than others, based on their nature?					
3. I believe that the nature of nature is unpredictable.					
4. The nature of risk is the aspect that the risk management should pay attention to.					
<b>Strategy Priority</b>					
1. I believe that construction projects can be successful even with limited risk management strategies?					
2. I think that regular risk management reviews can help improve the success rate of construction projects?					
3. I believe that risk management should be prioritize as much as other strategies in order to progress the construction project.					
4. Risk management should be implemented in every sequence					
<b>Rules and Regulations</b>					
1. To what extent do I believe that following rules and regulations in the construction industry is important for managing risks?					
2. I believe that strict adherence to rules and regulations can help manage risks in construction projects?					

Assessment Topics	Opinion Level				
	5	4	3	2	1
3. I believe that non-compliance with rules and regulations puts construction projects at a higher risk of failure?					
4. I believe that following rules and regulations in the construction industry is important for managing risks?					

### Part 3 Risk Management

Assessment Topics	Opinion Level				
	5	4	3	2	1
<b>Risk Management</b>					
1. I think risk identification is an important factor of construction project risk management.					
2. I think risk analysis It identifies the nature of the risk that will affect the business or the trend of the risk that may occur.					
3. Risk Mitigation Plan is reduction internal control system or strategy is an important factor in the outcome of risk management.					
4. I think the risk monitoring of a construction project should be assessed based on the potential impact on safety?					

### Part 4 Open Form

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Thank you to everyone who answered the questionnaire



## Biography

**Name** Li Lizhou  
**Day Month Year of Birth** 16 November 1984  
**Domicile** No. 2 Shangnan Street, Qingyang District, Chengdu City,  
Sichuan Province, China

### Academic Background

2007-2009 Bachelor's Degree of Economics and Administration  
Nanjing University of Political Science  
2021-2023 Master of Business Administration  
Dhonburi Rajabhat University

### Place of Work

Sichuan Natural Gas Investment Group Co., Ltd., Chengdu, Sichuan Province,  
China