Appendix Appendix

Appendix A

Letter Expert invitation

Letter Expert invitation



No. 0642.09 (4)/142

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

September 4, 2023

Subject Invitation Letter for Expert to Validate Research Instruments

Dear Mr. Pharunyu Thanaruedee

Mrs. Liu Xin, a graduate student in MBA (Master in Business Administration Program) of Dhonburi Rajabhat University, is currently working on her independent study entitled "Service Quality of Cold Chain Logistics Based on Customer Relationship Management: A Case Study of Shun Feng Express Co., Ltd.", having Dr.Sittichai Farlangthong as her 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,

Sinkun

(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.

(Mr. Pharunyu Thanaruedee)

Date 7 Sept. 2023

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

No. 0642.09 (4)/144

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

September 4, 2023

Subject Invitation Letter for Expert to Validate Research Instruments

Dear Mr. Pairat Tongvijit

Mrs. Liu Xin, a graduate student in MBA (Master in Business Administration Program) of Dhonburi Rajabhat University, is currently working on her independent study entitled "Service Quality of Cold Chain Logistics Based on Customer Relationship Management: A Case Study of Shun Feng Express Co., Ltd.", having Dr.Sittichai Farlangthong as her principal advisor.

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Graduate Study Program
Tel. 0-2890-1801 ext. 5
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Website https://grad.dru.ac.th

I hereby approve the research instrument validity.

(Mr. Pairat Tongvijit)

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No. 0642.09 (4)/143

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

September 4, 2023

Subject Invitation Letter for Expert to Validate Research Instruments

Dear Lect. Gronravit Taykatuk

Mrs. Liu Xin, a graduate student in MBA (Master in Business Administration Program) of Dhonburi Rajabhat University, is currently working on her independent study entitled "Service Quality of Cold Chain Logistics Based on Customer Relationship Management: A Case Study of Shun Feng Express Co., Ltd.", having Dr.Sittichai Farlangthong as her 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.

(Lect. Gronravit Taykatuk)

Date 13 2023

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



คณะกรรมการจริยงรรมการวิจัยในมนุษย์ มหาวิทยาลัยราชภัฏธนบุรี 17.2 ถนนอิสรภาพ เขตธนบุรี กรุงเทพมหานคร 10600 เบอร์โทรศัพท์ 02 890 0001 Dhonburi Rajabhat University Institutional Review Board 172 Itsaraparb Rd., Thonburi, Bangkok 10600 Tel No. 662 890 0001

เอกสารรับรองการพิจารณาโครงการจริยธรรมวิจัยในมนุษย์แบบยกเว้น Certificate of Exemption from Human Research Ethics Review

หมายเลขคณะกรรมการจริยธรรมการวิจัยในมนุษย์ (RB NO.) DRUIRB-GOV-66-00015

ชื่อโครงการ (Research title) : (ภาษาไทย) -(English) Service Quality of Cold Chain Logistics based on Customer Relations Management-A Case study of Shun Feng Express Co., Ltd เลขที่โครงการวิจัย (Research number) : 059/2566 ผู้วิจัยหลัก (Principal investigator) : (ภาษาไทย) (English หน่วยงานที่สังกัด (Institutional affiliation) of Busin : Master ss Administration Program, Faculty of Management uri Rajabhat University ผู้วิจัยร่วม (Co-investigators) หน่วยงานที่สังกัด (Institutional affilia

โครงการวิจัยนี้ ได้รับการรัชรองจากคณะกรรมการจริยธรรมการวิจัยในมนุษย์ มหาวิทยาลัยราชภัฏธนบุรี This research project is approved by Dhonburi Rajabhat University Institutional Review Board.

วันที่รับรอง (Certified date)

: 14 กันยายน 2566 (September 14th, 2023)

Durv

(ดร. ผ่องศรี เวสารัช/ Dr. Phongsri Waysarach) ประธานคณะกรรมการจริยธรรมการวิจัยในมนุษย์ มหาวิทยาลัยราชภัฏธนบุรี Chairperson of Dhonburi Rajabhat University Institutional Review Board

หมายเหตุ :

1. ไม่ต้องส่งรายงานความก้าวหน้า

2. ส่งรายงานการวิจัยฉบับสมบูรณ์ พร้อมแบบฟอร์มรายงานผลสรุปการวิจัย (DRU - IRB Form 14-01/2.0) เมื่องานวิจัยแล้วเสร็จ

Remarks:

1. No requirement for progress report.

2. When complete the research, please submit a full research report and the research report form (DRU - IRB Form14-

01/2.0).

Appendix B

Questionnaire

Questionnaire Survey on Service Quality of SF Cold Chain Logistics

Dear Sir Or Madam.

 \square 4-6 years

This is a questionnaire about the service quality of SF cold chain logistics. If you have used SF cold chain logistics before, please fill in the following questionnaire according to your actual experience. If you have not used SF cold chain logistics before, thank you for your reading. Your information is for academic research only and will not be used for other commercial purposes. Thanks!

Thank you again for your great support!

Instruction: Please mark ✓ into the square corresponding to your opinion Part 1 General information of respondents 1. Age \square 18-25 years old \square 36-45 years old \square 55 years and older 2. Gender ☐ female sex 3. Education High school and below ☐ Junior college Undergraduate ☐ Master or above 4. Place of residence ☐ Town ☐ Countryside ☐ Suburb ☐ mountain area 5. Time of usage of Sf Express cold chain logistics Less than 1 year 1-3 years

☐ More than 6 years

Part 2 Below are some questions related to Service Quality 5 Item

5 = Opinion is at the highest level 4 = Opinion is at a high level

3 = moderate opinion 2 = opinions are at a low level

1 = The opinion is very low

Quality of service: SERVQUAL				Opir	nion l	_evel	
	Quarty of Service. SERVQUAL			2	3	4	5
		Advanced logistics information software					
1		Image of service personnel					
	Tangible assets	The staff have clean clothes					
		Cold chain facilities and equipment can					6
		meet the needs of the service provided					2
		Cargo damage		7		Ь	
		Packaging processing compliance					
2	Poliability	Inventory integrity	4	N			
	Reliability	Delivery timeliness	10	9~			
		The timely completion of the promised					
		things to the customer					
	Response	Order response capability					
		Ability to resolve customer complaints					
3		and complaints					
		Can accurately inform the customer					
		delivery time					
		Customer service call through timely					
	9	Professional quality and professional					
		ability of service personnel					
4	Guarantee	Provide suitable and accurate cold chain					
-	Guarantee	transportation, storage and other					
		environments					
		The staff were very polite					
		The ability to provide personalized					
		service					
5	Empathy	Give priority to customer interests					
	Linpatry	Understanding of customer needs					
		Care for customers and provide					
		customers with accurate information					

Part 3 Below are some questions related to Customer Relationship Management 4 Item

5 = Opinion is at the highest level 4 = Opinion is at a high level

3 = Moderate opinion 2 = Opinions are at a low level

1 = The opinion is very low

A				Opir	nion L	_evel	
	Assessment Topics			2	3	4	5
		Customer relationship Management		(
	Customer	program				9	
1	Prospects	SF Cold chain logistics impressions					
		New customer growth rate		2			
	Relationship						
2	with Customers	Ability to sign contracts					
		SF Cold chain logistics contact					
		frequency with customers					
2	Interactive	SF Cold chain logistics price campaign					
3	Management	recognition					
		The diversity of forms of interaction					
		between the two sides					
	Customer	Availability of a product or service					
4	Expectation	Overall service satisfaction					

Part 4 Additional S	Suggestions			
•••••	•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	

Thank you to everyone who answered the questionnaire

Appendix C
OC Test Results

Results IOC Expert Assessment

Service Quality of Cold Chain Logistics based on Customer Relationship Management: A Case study of Shun Feng Express Co., Ltd

		comment			
Question point	Person	Person	Person	IOC	Interpet
	1	2	3		
Part 1 General information of respondents					
1. Age					
\square 18-25 years old					
\square 26-35 years old	1	1	1	1.00	ОК
\square 36-45 years old	1	1	1	1.00	OK OK
\square 46-55 years old			20	0	
\square 55 years and older.		10			
2. Gender					
☐ Male	1 1	1	1	1.00	OK
☐ Female	G	20			
3. Education					
☐ High school and below	9				
☐ Junior college	1	1	1	1.00	OK
☐ Undergraduate					
☐ Master or above					
4. Place of residence					
□ Town					
\square Countryside	1	1	1	1.00	OK
☐ Suburb					
□ mountain area					
5. Time of usage of Sf Express cold chain					
logistics					
\square Less than 1 year	1	1	1	1.00	OK
\square 1-3 years	1	1	1	1.00	UK
☐ 4-6 years					
☐ More than 6 years					

		comment			
Quality of service: SERVQUAL	Person	Person	Person	IOC	Interpet
	1	2	3		
Part 2 Below are some questions related to					
Service Quality					
Tangible Assets					
1. Advanced logistics information software	1	1	1	1.00	OK
2. Image of service personnel	1	1	1	1.00	OK
3. The staff have clean clothes	1	1	1	1.00	OK
4. Cold chain facilities and equipment can					_
meet the needs of the service provided	1	1	1	1.00	ОК
Reliability					1 9
1. Cargo damage	1	0	1	0.67	ОК
2. Packaging processing compliance	1	1	1	1.00	OK
3. Inventory integrity	1	1	1	1.00	OK
4. Delivery timeliness	1	10	1	1.00	OK
5. The timely completion of the promised			1967	•	
things to the customer	1	000	1	0.67	OK
Responsive	, (7			
1. Order response capability	1	1	1	1.00	OK
2. Ability to resolve customer complaints and	670	1	1	1.00	ОК
complaints					
3. Can accurately inform the customer delivery	1	0	1	0.67	OK
time					
4. Customer service call through timely	1	1	1	1.00	OK
Guarantee					
1. Professional quality and professional ability					
of service personnel	1	1	1	1.00	OK
2. Provide suitable and accurate cold chain	1	1	1	1.00	OK
transportation, storage and other					
environments					
3. The staff were very polite	1	0	1	0.67	OK
Empathy					
1. The ability to provide personalized service	1	1	1	1.00	OK
2. Give priority to customer interests	1	1	1	1.00	OK
3. Understanding of customer needs	1	1	1	1.00	OK
4. Care for customers and provide customers	1	1	1	1.00	OK
with accurate information					

	comment				
Quality of service: SERVQUAL	Person	Person	Person	IOC	Interpet
	1	2	3		
Part 3 Below are some questions related to					
Customer Relationship Management					
Customer Prospects					
1. Customer relationship Management program	1	1	1	1.00	OK
2. SF Cold chain logistics impressions	1	0	1	0.67	OK
3. New customer growth rate	1	1	1	1.00	OK
Relationship with Customers				_	
1. Loyal to SF Cold chain Logistics	1	1	1	1.00	OK
2. Ability to sign contracts	1	1	1	1.00	OK
Interactive Management					
1. SF Cold chain logistics contact frequency					
with customers	1	1	1	1.00	OK
2. SF Cold chain logistics price campaign	0	(7		
recognition	1 (0 0	1	0.67	OK
3. The diversity of forms of interaction	60	9			
between the two sides	1	1	1	1.00	OK
Customer Expectation					
1. Availability of a product or service	1	1	1	1.00	OK
2. Overall service satisfaction	1	1	1	1.00	OK
31997					

Results IOC

Part 1 General information = 5.00

Part 2 Service Quality

- Tangible assets = 5.00
- Reliability = 4.34
- Responsive = 3.67
- Guarantee = 2.67
- Empathy = 4.00

Part 3 CRM

- Customer Prospects = 2.67
- Relationship with customers = 2.00
- Interactive Management = 2.67
- Customer expectation = 2.00

Total = $42.02 \div 43 = 0.97$

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

Appendix D.

Reliability

Result Service Quality

Reliability Statistics

Cronbach's	
Alpha	N of Items
.883	30



Item-Total Statistics

		Scale Variance	Corrected	Cronbach's
	Scale Mean if	if Item	Item- Total	Alpha if Item
	Item Deleted	Deleted	Correlation	Deleted
tan1	111.9000	69.197	.282	.882
tan2	111.8333	69.730	.253	.883
tan3	111.9333	70.202	.193	.884
tan4	111.8333	69.937	.264	.882
reli1	111.8000	69.614	.295	.882
reli2	111.9333	66.478	.466	.878
reli3	111.7667	67.978	.421	.879
reli4	111.8667	67.154	.516	.877
reli5	112.1667	71.385	.064	.889
respo1	112.4333	72.737	039	.890
respo2	112.2667	73.099	072	.888
respo3	112.4333	71.771	.089	.885
respo4	112.3333	68.782	.292	.882
guo1	112.3000	68.700	.342	.881
guo2	112.4667	70.120	.338	.881
guo3	112.4000	67.007	.555	.876
emp1	112.4333	66.461	.539	.876
emp2	112.7333	66.133	.767	.872
emp3	112.4000	67.007	.555	.876
emp4	112.4333	66.461	.539	.876
custo1	112.7333	66.133	.767	.872
custo2	112.7333	66.340	.741	.873
custo3	112.9333	68.340	.410	.879
rela1	112.7333	66.133	.767	.872
rela2	112.4000	67.007	.555	.876
inter1	112.4333	66.461	.539	.876
inter2	112.7333	66.133	.767	.872

inter3	112.7333	66.340	.741	.873
cus1	112.9333	68.340	.410	.879
cus2	112.7333	66.133	.767	.872

SAN LANGUED AND BURNERS OF THE PARTY OF THE

Biography

Name Liu Xin

Day Month Year of Birth 23 February 1984

Domicile No. 753 Jinshui Road, Licang District, Qingdao City,

Shandong Province, China

Academic Background

2004-2008 Binhai College, Nankai University2021-2023 Master of Business Administration

Dhonburi Rajabhat University

Place of Work

Qingdao College of Science and Technology, China