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## Appendix A

Questionnaire No......

## Questionnaire for Workers Project Research on Preventive Behaviors from Dust among Workers in Lime Factories and Stone Crushing Mills , Nakhon Si Thammarat Province

Explanations on Answering the Questionnaire

The people who answer to the questionnaire mean the workers work in the lime factories and stone crushing mills in Nakhon Si Thammarat Province

This questionnaire is divided into 5 sections are:

Section 1 Socio – demographic Data

Section 2 Preventive behaviors Data

Section 3 Perceived susceptibility Data

Section 4 Perceived severity Data

Section 5 Perceived benefits and barriers of performing Data

The data derived shall be kept confidential for the researchers only. No impact on the persons who answer the questionnaire, please answer the questionnaire in truth so the data can be useful on health promotion for the plant workers later.

## Section 1 Socio – demographic Data

Explanation: Please put a checkmark (/) in the box or fill the statements in the blank

General information		
1. Gender	1. Male	2. Female
		e than 6 months are rounded up to a year)
	1. Single	2. Married
	2. Widow	4. Divorced
	5. Separated	
4. Level of educatio	1. Illiterate	
	2. Primary Sch	nool
	3. Lower Seco	
	4. Upper Seco	•
	5. Lower Voc	ational Diploma
	6. Higher Voc	ational Diploma
	7. Bachelor's	Degree 8. Post Graduate Degree
1. Family income	baht p	er month
2. Time you have wo	rked in this fact	ory foryear(s)month(s)
3. Have you ever wor	ked in other lim	ne factories or stone crushing mills before?
1. Yes	2. No	
•	•	rked in other lime or stone crushing mills?
	•	otalyears.
•		
5. You workday		
6. Do you smoke?		2. Yes,cigarettes per day.
6.1 If you smoke,	•	
	ke once in awhil	e
	ke everyday.	
	to smoke.	when sick with the following diseases? (Vou can
7. At present are you answer more than	•	u been sick with the following diseases? (You can
1. Cold	one answer)	2. Asthma
	mable throat	4. Tuberculosis
5. Allerg		6. Others (Please specify)
J. Alleig	J	o. Others (t lease speen y)

## **Section 2** Preventive behaviors Data

1. Do you use protective device to prevent dust?

Explanation: Each question has two answers to choose, please answer to correspond with your practice in just one answer by putting a / in the box

		1. Yes	2. No
	1.1	If yes, what kind do	you use?
		1. Using cloth to c	close the mouth
		2. The mask made	of paper filter and nose
		3. The mask with	particulate filter
		4. Others (Please s	specify)
	1.2	Do you use dust prot	ective device on each working
		1. Yes	2. No
	1.3	Do you adjust the du	st protective device to fit your face each time?
		1. Yes	2. No
	1.4	Do you exchange the	e dust protective device with other workers?
		1. Yes	2. No
	1.5	Do you clean the dus	st protective device each time after work?
		1. Yes	2. No
	1.6	•	t protective device away from dust after use?
		1. Yes	2. No
	1.7	If you feel suffocated your foreman?	d while using the dust protective device, will you notify
		1. Yes	2. No
	1.8	Will you find new du	ust protective device if the old one is worn out?
		1. Yes	2. No
	1.9	•	t protective device to make sure that it can really protect
		against dust?	
		1. Yes	2. No
	1.10	Do you avoid breath	
		1. Yes	2. No
2.	Did the	e factory distribute du	st protective device to you?
		1. Yes	2. No
	2.1	In case the factory p	rovides you with the dust protective device, do you use
		it?	
		1. Yes	2. No

## Section 3 Perceived susceptibility Data

Explanation: Each question has five answers, please choose the answers corresponding to your feelings most in one answer by putting a checkmark / in the box

			]	Level of Op	inion	
No.	Perceived susceptibility	Strongly	Agree	Not Sure	Disagree	Strongly
		agree				disagree
1.	The job you work is at risk of					
	developing pneumoconiosis					
2.	You have strong body, so there					
	must be no pneumoconiosis.					
3.	Dust in the factory has adverse					
	effects only for the children and					
	elderly.					
4.	You have worked in the factory					
	for so long until you are used to					
	dust, you cannot develop					
	pneumoconiosis					
5.	Your job has not much dust, so					
	it is not necessary to use dust					
	protective device					
6.	You are at risk to have					
	pneumoconiosis because you					
	have worked for a long time.					
7.	Taking care of your health					
	regularly will make it harder to					
	for the lungs to trap the dust.					
8.	Working in a lime factory /					
	stone crushing mill is dangerous					
	to your health.					
9.	If you can choose, will you					
	change your job to other type?					
10.	You have made annual check-					
	up, so should be no dust on the					
	lungs.					

## Section 4 Perceived severity Data

Explanation: In each question there are five answers, please choose the answers corresponding to your feelings most in one answer by putting a checkmark / in the box

			L	evel of Opi	nion	
No.	Perceived severity	Strongly	Agree	Not Sure	Disagree	Strongly
		Agree				disagree
1.	Pneumoconiosis is easy to be					
	treated.					
2.	Dust in the factory is as					
	dangerous as the general dust.					
3.	You will lose your job if you					
	develop pneumoconiosis.					
4.	Having pneumoconiosis then					
	you can no longer work.					
5.	People who have					
	pneumoconiosis can develop					
	other diseases easily.					
6.	Pneumoconiosis has the					
	symptom like the common cold,					
	so it is not a scary story.					
7.	Constricted chest is normal for					,
	people working in the factory					
8.	People with pneumoconiosis					
	will die in a short time.					
9.	Treatment of pneumoconiosis					
	takes a long time.					
10.	Treatment of pneumoconiosis					
	cost is very high.					

## Section 5 Perceived benefits and barriers of performing Data of the diseases.

Explanation: In each question there are five answers, please choose the answers corresponding to your feelings most in one answer by putting a checkmark / in the box

	Perceived benefits and barriers		L	evel of Opi	nion	
No.	of performing	Strongly	Agree	Not Sure	Disagree	Strongly
	or performing	Agree				disagree
1.	If the body is strong wearing the					
	dust protective device in the					
	factory is not so necessary.					
2.	Even use the dust protective					
	device you still have a chance to					
	develop respiratory diseases					
	from dust.					
3.	Using dust protective device					
	while working is necessary.					
4.	Using dust protective device					
	while working annoys you.					
5.	Using dust protective device					
	makes contacts with others					
	difficult.					
6.	You would rather suffer from					
	pneumoconiosis than using dust					
	protective device					
7.	Using dust protective device					
	while working is simple not					
	complicated.					
8.	Even you feel uncomfortable to					
	use the dust protective device					
	you have to do for safety.					
9.	If you have to buy dust					
	protective device you think you					
	will rather not use it.					
10.	Taking care of the dust					
	protective device after use is					
	difficult and time consuming.					

Questionnaire No.....

## Questionnaire for owners

## Project Research on Preventive Behaviors from Dust among Workers in Lime Factories and Stone Crushing Mills , Nakhon Si Thammarat Province

Explanation on answering the questionnaire

The answering persons means the management/owner of lime factories and stone crushing mills in Nakhon Si Thammarat Province

This questionnaire is divided into 2 sections are:

Section 1 Socio – demographic Data

Section 2 Supportive environment and health policy Data

The data received will be treated with confidential. No impact to you on answering persons of this questionnaire please answer in truth so the data received can be processed to benefit promotion of good health of the workers later.

## Section 1 Socio – demographic Data

Explanation: Please put a checkmark / in the box or fill in the blanks to correspond with the answer or information of the interviewee.

General data		
1. Gender	1. Male	2. Female
2. Age at presenty	years (If exceeding six	months may be rounded to one year).
3. Title:	1. Owner	2. Management
	2. Both owner and ma	anagement
4. Marital status	1. Single	2. Married
	2. Widow	4. Divorced
	5. Separated	
5. Level of education	1. Illiterate	2. Primary School
	3. Lower Secondary S	School 4. Upper Secondary School
	5. Lower Vocational	Diploma 6. Higher Vocational Diploma
	7. Bachelor's Degree	8. Post Graduate Degree
	9. Others	•••
6. Time you have opera	ated in this factory for .	yearsmonths
	<ul><li>3. Lower Secondary S</li><li>5. Lower Vocational</li><li>7. Bachelor's Degree</li><li>9. Others</li></ul>	School 4. Upper Secondary School Diploma 6. Higher Vocational Diploma 8. Post Graduate Degree

## Section 2 Supportive environment and health policy Data

Explanation: Please put a checkmark / in the box	or fill in the blanks to correspond
with the answer or information of the interviewee.	

1.Does	your factory have a written policy on to 1. Yes (Can you show it?)	taking care of the worker's health or not?  2. No
2. Does time?	your factory have a rule for the wo	orkers to use dust protective device each
	1. Yes (Can you show it?)	2. No
3. Does		rules for all workers to see and you post it
	1. Yes	2. No
	s your factory have responsible personasks on each working?	on to make sure that the workers use the
	1. Yes	2. No (If no, go to No. 5)
4	4.1 If yes, the responsible person is	
4	• •	of the dust protective device, what do you
5. Does	s your factory provide health check-up	p for the workers annually?
	1. Yes	2. No (Go to No. 6)
5	5.1 If there is the annual check-up, wh	at did the workers sick from?
5	5.2 Who came to inspect the health of	your workers?
5	5.3 Is there a record on the health of ye	our workers?
	1. Yes	2. No
5	5.4 If the check-ups on the workers tu do to him?	rn up a sick worker, what does the factory

6.	Does your factory provided 1. Yes (Please st	•	device to the workers or not?  2. No (Go to No. 7)
	6.1 What kind of equi	pment does the fa	actory have?
7.	Does your factory provid measures for the workers		dangers from working and the preventive work or not?
	1. Yes		2. No (Go to No. 8)
	7.1 If there is an advic		advice?
	7.2 Who does give the		
	7.3 How much often of		
8.	Does your factory have a	nurse to take care	e of the health of the factory workers?
9.	details?		red for treatment, can you describe the
10.	How do you want the pub		support?
11.	Have you got in touch wit	th the public heal	th in the past?
12.	Do you think how the h factory?	nealth of the wo	rkers is important on the work in your
	1. Very Important	2. Important	3. Not Sure
	4. Not Important	5. Not at all	

# Observation Form on the preventive behavior and the environment condition inside the factories Project Research on Preventive Behaviors from Dust among Workers in Lime Factories and Stone Crushing Mills , Nakhon Si Thammarat Province

## **Scope of Observation**

- 1. Have dust protective equipment worn by the workers while working (if you have, can we take a look).
- 2. General conditions in the factory.

Observation	Yes	No
1. There were dust protective device while the workers working		
2. The factory had a sign advising the policies or rules at the visible places.		
3. The factory had fence properly		
4. The factory had a nursing room		
5. The factory had a nurse to take care of the workers		
6. There were workers used dust protective device		
7. There were workers used the dust protective device correctly		

## Appendix B

**Table 23: Perceived Susceptibility** 

Perceived susceptibility	Strongly agree	Agree	Not Sure	Disagre e	strongly disagree	X	S.D.
1. The job you work is at	20	125	43	10	Ģ		
risk of developing	(10 1)	(00.4)	(04.7)	(F 1)	(0)	3.78	.69
pneumoconiosis	(10.1)	(63.1)	(21.7)	(5.1)	(0)		
2. You have strong body, so	6	62	86	42	2		
there must be no	(3.0)	(31.3)	(43.4)	(21.2)	(1.0)	3.14	.82
pneumoconiosis.	(3.0)	(31.3)	(43.4)	(21.2)	(1.0)		
3. Dust in the factory has	13	113	24	39	9	0.44	4.00
adverse effects only for the children and elderly.	(6.6)	(57.1)	(12.1)	(19.7)	(4.5)	3.41	1.02
4. You have worked in the							
factory for so long until	14	88	38	54	4		
you are used to dust, you					(0.0)	3.27	1.01
cannot develop	(7.1)	(44.4)	(19.2)	(27.3)	(2.0)		
pneumoconiosis							
5. Your job has not much	40	00	10	40	0		
dust, so it is not necessary	42	89	19	40	8	3.59	1.15
to use dust protective	(21.2)	(44.9)	(9.6)	(20.2)	(4.0)	3.59	
device							
6. You are at risk to have	20	83	58	32	5		
pneumoconiosis because						3.41	.96
you have worked for a long	(10.1)	(41.9)	(29.3)	(16.2)	(2.5)		
time.							
7. Taking care of your	18	76	44	45	15		
health regularly will make it harder to for the lungs to						3.19	1.12
trap the dust.	(9.1)	(38.4)	(22.2)	(22.7)	(7.6)		
8. Working in a lime factory	C7	00	1.4	22	-		
/ stone crushing mill is	67	90	14	22	5	3.97	1.04
dangerous to your health.	(33.8)	(45.5)	(7.1)	(11.1)	(2.5)		
9. If you can choose, will	60	98	22	14	4		
you change your job to						3.99	.94
other type?	(30.3)	(49.5)	(11.1)	(7.1)	(2.0)		
10. You have made annual	21	76	62	35	4		
check-up, so should be no	(10 G)				(2.0)	3.38	.96
dust on the lungs.	(10.6)	(38.4)	(31.3)	(17.7)	(2.0)		

**Table 24: Perceived Severity** 

Perceived severity	Strongly agree	Agree	Not Sure	Disagre e	strongly disagree	X	S.D.
1.Pneumoconiosis is easy to	17	103	64	11	3		
be treated.	(8.6)	(52.0)	(32.3)	(5.6)	(1.5)	3.61	.78
2.Dust in the factory is as	3	51	59	76	9		
dangerous as the general dust.	(1.5)	(25.8)	(29.8)	(38.4)	(4.5)	2.81	.92
3. You will lose your job if	10	125	37	23	3		
you develop pneumoconiosis.	(5.1)	(63.1)	(18.7)	(11.6)	()1.5	3.59	.82
4. Having pneumoconiosis	8	72	84	33	1		
then you can no longer work.	(4.0)	(36.4)	(42.4)	(16.7)	(0.5)	3.27	.80
5.People who have	29	113	32	22	2		
pneumoconiosis can develop other diseases easily.	(14.6)	(57.1)	(16.2)	(11.1)	(1.0)	3.73	.88
6.Pneumoconiosis has the	12	135	29	16	6		
symptom like the common cold, so it is not a scary	(6.1)	(68.2)	(14.6)	(8.1ป	(3.0)	3.66	.83
story. 7.Constricted chest is normal	52	80	32	32	2		
for people working in the factory	(26.3)	(40.4)	(16.2)	(16.2)	(1.0)	3.75	1.05
8. People with	11	54	101	26	6		
pneumoconiosis will die in a short time.	(5.6)	(27.3)	(51.0)	(13.1)	(3.0)	3.19	.85
9.Treatment of	8	78	94	14	4		
pneumoconiosis takes a long time.	(4.0)	(39.4)	(47.5)	(7.1)	(2.0)	3.36	.76
10.Treatment of	5	62	111	16	4		
pneumoconiosis cost is very high.	(2.5)	(31.3)	(56.1)	(8.1)	(2.0)	3.24	.72

Table 25: Perceived Perceived benefits and barriers of performing

Perceived benefits and						-	
1	Strongly	Agree	Not Sure	Disagre	strongly disagree	X	S.D.
barriers of performing	agree		Suic	e	disagree		
1. If the body is strong	10	133	26	28	1		
wearing the dust protective	(5.1)	(67.2)	(13.1)	(14.1)	(0.5)	3.62	.81
device in the factory is not so necessary.							
2.Even use the dust							
protective device you still	16	131	38	13	-		
have a chance to develop					(0)	3.76	.69
respiratory diseases from	(8.1)	(66.2)	(19.2)	(6.6)	(O)		
dust.							
3. Using dust protective	67	105	19	7	-	4.17	.74
device while working is necessary.	(33.8)	(53.0)	(9.6)	(3.5)	(0)		
4.Using dust protective	10	88	11	79	10		
device while working						3.05	1.12
annoys you.	(5.1)	(44.4)	(5.6)	(39.9)	(5.1)		
5. Using dust protective	11	74	14	91	8	2.94	1.10
device makes contacts	(5.6)	(37.4)	(7.1)	(46.0)	(4.0)		
with others difficult.							
6. You would rather suffer	53	96	28	16	5		
from pneumoconiosis than using dust protective	(26.8)	(48.5)	(14.1)	(8.1)	(2.5)	3.89	.98
device							
7.Using dust protective	23	116	27	26	6		
device while working is	(11.6)	(58.6)	(13.6)	(13.1)	(3 0)	3.63	.96
simple not complicated.	(11.0)	(30.0)	(13.0)	(13.1)	(3 0)		
8.Even you feel	66	86	25	16	5		
uncomfortable to use the						3.87	1.01
dust protective device you have to do for safety.	(33.3)	(43.4)	(12.6)	(8.1)	(2.5)		
9. If you have to buy dust	56	85	25	27	5		
protective device you think						3.81	1.07
you will rather not use it.	(28.3)	(42.9)	(12.6)	(13.6)	(2.5)		
10. Taking care of the dust	21	88	25	28	36		
protective device after use	(10.6)	(44.4)	(12.6)	(14.1)	(18.2)	3.15	1.31
is difficult and time	(10.0)	( • • • • )	(.2.0)	( /	(.5.2)		
consuming.							

## Appendix C

## List of the Lime Factories and Stone Crushing Mills

No.	Name and Location				
Lime					
Factories	376/3 Om Khai Wachirawuth Road, Village No. 5, Pak Phoon Sub-				
1.	district, Muang Nakhon Si Thammarat Province.				
2.	Satharana Road, Village No. 6, Thong Nien Sub-district, Khanom				
	District, Nakhnon Si Thammarat Province				
3.	79/7 Khanom-Sichon Road, Village No. 12, Khanom Sub-district,				
	Khanom District, Nakhon Si Thammarat Province.				
4.	113 Nakhon Si-Thung Song Road, Village No. 1, Khang Sai Sub-				
	district, Phra Prom District, Nakhon Si Thammarat Province.				
5.	443/5 Nakhon Si-Thung Song Road, Village No. 12, Ron Phibun Sub-				
	district, Ron Phibun District, Nakhon Si Thammarat Province.				
6.	152/1 Nakhon Si-Thung Song Road, Village No. 9, Ron Phibun Sub-				
	district, Ron Phibun District, Nakhon Si Thammarat Province.				
7.	65/3 Mai La-Khok Kham Road, Village No. 4, Hin Tok Sub-district,				
	Ron Phibun District, Nakhon Si Thammarat Province.				
8.	300/2 Nakhon Si-Cha Uad Road, Village No. 14, Ron Phibun Sub-				
	district, Ron Phibun District, Nakhon Si Thammarat Province.				
9.	204/1 Nakhon Si-Thung Song Road, Village No. 3, Ron Phibun Sub-				
	district, Ron Phibun District, Nakhon Si Thammarat Province.				
Stone					
Crushing					
Mills					
1.	Sila Sakon, Village No. 1, Thung Pho Sub-district, Chulaporn District,				
	Nakhon Si Thammarat				
2.	Por. Silachai, 150 Khao Krai-Tam Yai Road, Village No. 4, Cha Mai				
	Sub-district, Thung Song District, Nakhon Si Thammarat Province.				
3.	Wang Sila, Nakhon Si – Thung Song Road, Village No. 6, Hin Tok				
	Sub-district, Ron Phibun District, Nakhon Si Thammarat Province.				
4.	Sila Aree, Nakhon Si-Thung Song Road, Village No. 6, Hin Tok Sub-				
	district, Ron Phibun District, Nakhon Si Thammarat Province.				

## **Autobiography**

Miss Amornrat Praphant was born in January 9, 1966 at 106 Moo 12 Tampon Ronphibun Amphur Ronphibun Nakhon Si Thammarat Province. I had been to educate in a bachelor's degree from Suratthany Nursing Collage Suratthany Province in 1989 and I started to work in a government official of 3-registation nurse at A pediatric department Maharaj Nakhon Si Thammarat Hospital.

In 2001 I was move to a quality center the responsible about quality service development of the hospital and I has the position of 7-registation nurse to the present.