

CHAPTER IV

RESEARCH RESULTS

For the presentation of research result, the researcher collected a total of 215 samples from the targeted 241 samples, accounted for 89.21%. Tables will be presented in this chapter with description below the table. The division is in 5 parts as follows:

- Part 1: Personal factors of the samples
- Part 2: Data on levels of work morale of public health personnel of health centers in Krabi province.
- Part 3: Data on relationship between work morale and personal factors of public health personnel of health centers in Krabi province.
- Part 4: Data on the difference (s) in terms of work morale of public health personnel of health centers in Krabi province with different personal factors.
- Part 5: Data on opinions and suggestions regarding how to promote work morale in the personnel.

4.1 Personal factors of the samples

In this part, there will be the presentation of frequency and percentage of the samples, including sex, age, marital status, highest level of education obtained, job position, job status, job post in line of work, work experiences, and monthly household income, as follows:

Table 1: Frequency and percentage of the samples classified according to their personal factors

Personal factors	Numbers (n=215)	%	
Gender			
Male	70	32.6	
Female	145	67.4	
Ratio Male to Female = 1:2			
Age			
21-29 years old	71	33.0	
30-39 years old	84	39.1	
40-49 years old	44	20.5	
Over 50 years old	16	7.4	
Mean = 34.44, SD= 8.74, min=21, max =57			
Marital status			
Single,	70	32.6	
Married	133	61.9	
Separated, Divorced, Widow or widower	12	5.5	
Highest education level			
Lower than Bachelor's degree or equivalent	50	23.3	
Bachelor's degree	161	74.9	
Master's degree or higher	4	1.9	
Job position			
Head of the health center	61	28.4	
Employees of the health center	154	71.6	

Table 1: (continued) Frequency and percentage of the samples classified according to their personal factors

Personal factors	Numbers (n=215)	%	
Job status			
Officers	170	79.1	
Permanent employees	3	1.4	
Temporary employees	42	19.5	
Job post by line of work			
Public Health Administrator	52	24.2	
Public Health Technical Officer	37	17.2	
Registered Nurse	61	28.4	
Community Health Officer	59	27.4	
Community Dental Health Officer	6	2.8	
Work experiences			
Less than 10 years	104	48.4	
10-20 years	60	27.9	
More than 21 years	51	23.7	
Mean = 11.97, SD= 9.11, min=1, max =39			
Monthly household income			
Less than 15,000 Baht	44	20.5	
15,000-30,000 Baht	86	40.0	
More than 30,001 Baht	85	39.5	
Mean = 33,054, SD= 23,327.94, min=7,000, ma	x = 150,000		

From table 1 it found that the samples mostly were female (67.4%), aged between 30-39 years old (39.1%) (the least age was 21 years old and the highest age was 57 years old μ =34.4 years σ = 8.74). Their marital status was mostly married

(61.9%), with majority of Bachelor's degree (74.9%). Their job post in line of work were Public Health Administrator (71.6%), Public Health Technical Officer with job status as officers (79..1%); Registered Nurse for 28.4%, Community Health Officer for 27.4%. Their work experiences were less than 10 years old (48.4%) (with least work experiences of less than one year and maximum of 39 year-long μ =12 year σ = 9.11. In terms of their household income, the majority of them were between 15,000-30,000 baht per month, with least income of 7,000 baht per month and the maximum 150,000 baht per month μ =33,054.84 σ = 23,327.94.

4.2 Data on levels of work morale of public health personnel of health centers in Krabi province.

In this part, the researcher presented the mean and the standard deviation of work morale of public health personnel of health centers in Krabi province as a total picture and as per aspect of 7 aspects in total in the following order:

Table 2: Mean and standard deviation of work morale of public health personnel of health centers in 7 aspects:

Items	μ	σ	Level of work morale
Household economic status	2.68	0.57	moderate
Opportunities for advancement	3.17	0.59	moderate
Relationships with supervisors	3.56	0.71	moderate
Relationships with peers	3.68	0.61	high
Intrinsic aspects of the job	3.60	0.48	moderate
Job satisfaction	3.51	0.52	moderate
Work conditions	3.43	0.56	moderate
Total	3.38	0.39	moderate

From table 2, it found that work morale of public health personnel of health centers in Krabi province in an overall picture was on moderate level (μ =3.38). When taking into consideration each aspect, it found that relationships with peers had work morale in the high level (μ =3.68). The rest were on moderate level with the lowest one on household economic status (μ =2.68).

Table 3: Mean and standard deviation of the samples regarding work morale in terms of household economic status

Items	μ	σ	Level of work morale
Your present income is appropriate with	3.01	0.67	moderate
the work load and your job responsibility.			
Your income is sufficient for your present	2.75	0.79	moderate
cost of living.			
Your present income is appropriate when	2.77	0.78	moderate
compare with the length of your work			
experiences.			
Your present income is appropriate when	2.61	0.75	moderate
compare with other organizations with			
similar missions.			
Your present income is appropriate with	2.65	0.74	moderate
your monthly household expenditure.			
Other types of welfare help your income	2.67	0.84	moderate
to be sufficient for your present cost of			
living.			
You do not need to find extra income in	2.36	1.08	moderate
addition to your regular work.			
Total	2.68	0.57	moderate

From table 3, it found that work morale in terms of household economic status of public health personnel of health centers in Krabi province was on moderate level $(\mu=2.68)$. When looking into each item, it found that the highest level of work morale

was in the statement of "your present income is appropriate with the work load and your job responsibility" (μ =3.01). The lowest one was in the statement of "you do not need to find extra income in addition to your regular work". (μ =2.36).

Table 4: Mean and standard deviation of the samples regarding work morale in terms of opportunities for advancement

Items	μ	σ	Level of work morale
You have a chance to further your higher	3.17	0.88	moderate
level of study.			
You have opportunities for advancement	2.73	0.84	moderate
in your line of command.			
You have opportunities to be trained to	3.40	0.82	moderate
develop your knowledge and capability.			
You have opportunities to be promoted to	2.97	0.87	moderate
higher position with fairness.			
You have opportunities to express your	3.34	0.71	moderate
own work performance.			
You have opportunities to be selected for	3.22	0.84	moderate
training or for field trip study.			
You have get fairness in opportunities to	3.37	0.83	moderate
be developed in job advancement.			
Total	3.17	0.59	moderate

From table 4, it found that work morale in terms of opportunities for job advancement of public health personnel of health centers in Krabi province was on moderate level (μ =3.17). When looking into each item, it found that the highest one was in the statement of "you have opportunities to be trained to develop your knowledge and capability" (μ =3.40), and the lowest one was in the statement of "you have opportunities for advancement in your line of command". (μ =2.73).

Table 5: Mean and standard deviation of the samples regarding work morale in terms of relationships with supervisors

Items	μ	σ	Level of work morale
The supervisor trusts you in performing your job.	3.67	0.72	high
The supervisor takes good care of you and helps you when facing any problems in work.	3.59	0.83	moderate
Your opinion and suggestion are usually accepted by the supervisor.	3.39	0.89	moderate
The supervisor honors you and gives you an opportunity to work to your fullest capability.	3.77	0.77	high
The supervisor is a person whom you can seek for advice or suggestion in your personal matter.	3.44	1.02	moderate
The supervisor is fair to all subordinates equally.	3.49	1.00	moderate
The supervisor supports and promotes the advancement of the subordinates.	3.58	0.87	moderate
Total	3.56	0.71	moderate

From table 5, it found that work morale in terms of relationships with supervisors of public health personnel of health centers in Krabi province was on moderate level (μ =3.56). The highest one was in the statement of "The supervisor honors you and gives you an opportunity to work to your fullest capability" (μ =3.77) and the lowest one in "Your opinion and suggestion are usually accepted by the supervisor" (μ =3.39)

Table 6: Mean and standard deviation of the samples regarding work morale in terms of relationships with peers

Items	μ	σ	Level of work morale
Peers at the health centers work	3.89	0.81	high
collaboratively and help out in solving			
problems for work under responsibility.			
You and your peers honor one another	3.97	0.73	high
when expressing opinions and also listen			
to each other legitimately.			
When you have personal matter or work	3.37	0.98	moderate
issue, you always tend to consult your			
peers.			
Your work practice tends to get	3.91	0.89	high
cooperation from your peers at the health			
center.			
In your health center, there is assistance	3.74	0.79	high
in case peers are in trouble.			
You have a chance to party with your	3.35	0.88	moderate
peers beyond work hours or in some			
special occasions.			
Your peers are always willing to spend	3.54	0.81	moderate
time with you when you require.			
Total	3.68	0.61	high

From table 6, it found that work morale in terms of relationships with peers of public health personnel of health centers in Krabi province was on high level (μ =3.68). The highest one was in the statement of "You and your peers honor one another when expressing opinions and also listen to each other legitimately" (μ =3.97) and the lowest one in "You have a chance to party with your peers beyond work hours or in some special occasions." (μ =3.35).

Table 7: Mean and standard deviation of the samples regarding work morale in terms of intrinsic aspects of the job

Items	μ	σ	Level of work morale
Your present position is appropriate with	3.71	0.64	high
your knowledge and capability.			
Your present job is what you are skillful	3.60	0.73	moderate
at.			
Your can use your knowledge and	3.45	0.85	moderate
capability in your work to a full extent.			
You participate in giving suggestions in	3.67	0.61	high
work.			
You are free to express your ideas fully.	3.71	0.70	high
Your opinions are accepted and are	3.54	0.63	moderate
brought to improve work.			
The assigned job is appropriate for you.	3.57	0.66	moderate
Total	3.60	0.48	moderate

From table 7, it found that work morale in terms of Intrinsic aspects of the job of public health personnel of health centers in Krabi province was on moderate level (μ =3.60) The highest one was in the statement of "Your present position is appropriate with your knowledge and capability." (μ =3.71) and "You are free to express your ideas fully" (μ =3.71), the lowest one in "Your can use your knowledge and capability in your work to a full extent." (μ =3.45)

Table 8: Mean and standard deviation of the samples regarding work morale in terms of job satisfaction

Items	μ	σ	Level of work morale
You are happy to work as assigned.	3.44	0.95	moderate
You can use your initiatives and personal capability in work.	3.65	0.63	moderate
The work under your responsibility is challenging and motivates you to work.	3.45	0.78	moderate
You are satisfied with your present work.	3.52	0.80	moderate
The assigned work is interesting and useful.	3.72	0.63	high
The workload of responsible job is appropriate, not too little and not too much.	3.26	0.81	moderate
You are satisfied in the knowledge and capability of your existing peers.	3.60	0.72	moderate
Total	3.51	0.52	moderate

From table 8, it found that work morale in terms of job satisfaction of public health personnel of health centers in Krabi province was on moderate level (μ =3.51) The highest one was in the statement of "The assigned work is interesting and useful." (μ =3.72), the lowest one in "The workload of responsible job is appropriate, not too little and not too much.." (μ =3.26).

Table 9: Mean and standard deviation of the samples regarding work morale in terms of work conditions

Items	μ	σ	Level of work morale
The health center you are working for has	3.78	0.75	High
noise, light, and weather, which are			
appropriate for work.			
The health center you are working for has	3.15	0.92	Moderate
materials and equipments, which are			
adequate for work.			
The health center you are working for has	3.28	0.84	Moderate
public facilities which enable your work.			
The building of health center has enough	3.42	0.91	Moderate
space for work.			
You have proper work hours.	3.56	0.74	Moderate
The health center you are working for has	3.22	0.80	Moderate
hazard prevention system from work.			
The health center you are working for is	3.64	0.84	Moderate
clean, tidy, and neat.			
Total	3.43	0.56	Moderate

From table 9, it found that work morale in terms of work conditions of public health personnel of health centers in Krabi province was on moderate level (μ =3.43) The highest one was in the statement of "The health center you are working for has noise, light, and weather, which are appropriate for work." (μ =3.78), the lowest one in "The health center you are working for has materials and equipments, which are adequate for work." (μ =3.15).

4.3 Data on relationship between work morale and personal factors of public health personnel of health centers in Krabi province.

In this part, the presentation is about relationship of personal factors, including sex, age, marital status, highest education level obtained, job position, job status, job post in line of work, work experiences, and monthly household income and work morale of of public health personnel of health centers in Krabi province. They are presented in the following orders.

Table 10: The relationship between sex and work morale of public health personnel of health centers in Krabi province.

			Level of	vork morale		То	Total	
Gender	ender		Moderate		High		itai	
		No.	%	No.	%	No.	%	
Male		55	78.6	15	21.4	70	100	
Female		111	76.6	34	23.4	145	100	
$X^2 = 0.11$	df=1	p-value=	=0.74					

From table 10, it found that sex and work morale of public health personnel of health centers in Krabi province did not have significant statistically relationship.

Table 11: The relationship between age and work morale of of public health personnel of health centers in Krabi province.

]	Level of work morale				Total	
Age (years)	Mod	Moderate High		10	itai		
	No.	%	No.	%	No.	%	
< 30	59	83.1	12	16.9	71	100	
30-39	61	72.6	23	27.4	84	100	
40-49	34	77.3	10	22.7	44	100	
≥ 50	12	75.0	4	25.0	16	100	
$X^2 = 2.45$ df=	3 p-value	=0.48					

From table 11, it found that age and work morale of public health personnel of health centers in Krabi province did not have significant statistically relationship.

Table 12: The relationship between marital status and work morale of public health personnel of health centers in Krabi province.

]	Level of work morale					
Marital status	Mod	Moderate		High		Total	
	No.	%	No.	%	No.	%	
Single	57	81.4	13	18.6	70	100	
Married	98	73.7	35	26.3	133	100	
Widow, widower, separated	11	91.7	1	8.3	12	100	
$X^2 = 3.07$ df=2	p-value	=0.21					

From table 12, it found that marital status and work morale of public health personnel of health centers in Krabi province did not have significant statistically relationship.

Table 13: The relationship between highest education and work morale of public health personnel of health centers in Krabi province.

	<u>_</u>	Total					
Highest education	Moderate		H	High		10tai	
	No.	%	No.	%	No.	%	
Lower than Bachelor's	40	80.0	10	20.0	50	100	
degree or equivalent Bachelor's degree or							
higher	126	76.4	39	23.6	165	100	
$X^2 = 0.29$ df=1	p-value=	=0.59		,			

From table 13, it found that highest education obtained and work morale of public health personnel of health centers in Krabi province did not have significant statistically relationship.

Table 14: The relationship between job position and work morale of public health personnel of health centers in Krabi province.

]	Level of work morale				
Job position	Mod	lerate	High		Total	
	No.	%	No.	%	No.	%
Head of health center	46	75.4	15	24.6	61	100
Employees	120	77.9	34	22.1	154	100
$X^2 = 0.16$ df=1	p-value=	=0.69				

From table 14, it found that job position and work morale of public health personnel of health centers in Krabi province did not have significant statistically relationship.

Table 15: The relationship between job status and work morale of public health personnel of health centers in Krabi province.

]	Total					
Job status	Moderate		High		10	Total	
	No.	%	No.	%	No.	%	
Officers	129	75.9	41	24.1	170	100	
Permanent and temporary employees	37	82.2	8	17.8	45	100	
$X^2 = 0.81$ df=1	p-value	=0.37					

From table 15, it found that job status and work morale of public health personnel of health centers in Krabi province did not have significant statistically relationship.

Table 16: The relationship between job post in line of work and work morale of of public health personnel of health centers in Krabi province.

	L	evel of w	Total				
Job post in line of work	Moderate		H	High		iotai	
	No.	%	No.	%	No.	%	
Public Health Administrator	39	75.0	13	25.0	52	100	
Public Health Technical	29	78.4	8	21.6	37	100	
Officer	29 /0.4	70.4	0	21.0	37	100	
Registered Nurse	43	70.5	18	29.5	61	100	
Community Health Officer							
and Community Dental	55	84.6	10	15.4	65	100	
Health Officer							
$X^2 = 3.76$ df=3 p-v	value=0.	29					

From table 16, it found that job post in line of work and work morale of public health personnel of health centers in Krabi province did not have significant statistically relationship.

Table 17: The relationship between working experiences and work morale of public health personnel of health centers in Krabi province.

Warking ormanianoog]	Level of work morale				
Working experiences	Moderate		High		Total	
(years)	No.	%	No.	%	No.	%
< 10	85	81.7	19	18.3	104	100
10-20	42	70.0	18	30.0	60	100
> 20	39	76.5	12	23.5	51	100
$X^2 = 2.99$ df=2	p-value	=0.22				

From table 17, it found that working experiences and work morale of public health personnel of health centers in Krabi province did not have significant statistically relationship.

Table 18: The relationship between monthly household income and work morale of public health personnel of health centers in Krabi province.

Le	Level of work morale					
Mode	Moderate		High		Total	
No.	%	No.	%	No.	%	
35	79.5	9	20.5	44	100	
73	84.9	13	15.1	86	100	
58	68.2	27	31.8	85	100	
	Mode No. 35 73	Moderate No. % 35 79.5 73 84.9	Moderate H No. % No. 35 79.5 9 73 84.9 13	Moderate High No. % 35 79.5 9 20.5 73 84.9 13 15.1	Moderate High To No. % No. % No. 35 79.5 9 20.5 44 73 84.9 13 15.1 86	

From table 18, it found that monthly household income and work morale of public health personnel of health centers in Krabi province had a significant statistically relationship with p < 0.05

4.4 Data on the difference (s) in terms of work morale of public health personnel of health centers in Krabi province with different personal factors.

In this part, the presentation is the mean of work morale of public health personnel of health centers in Krabi province and personal factors, in the following orders:

Table 19: The comparison of difference between the mean of work morale of public health personnel of health centers and gender

	<u> </u>		-			
Work morale components	Gender	N	μ	σ	T	
Household economic status	Male	70	2.57	0.57	-2.10*	
Household economic status	Female	145	2.74	0.57	-2.10	
Onnestruities for ich advancement	Male	70	3.08	0.58	1 60	
Opportunities for job advancement	Female	145	3.22	0.60	-1.68	
D. Ladin ald a 141 management	Male	70	3.51	0.78	0.00	
Relationships with supervisor	Female	145	3.58	0.68	-0.66	
D-1-4:	Male	70	3.76	0.64	1 21	
Relationships with peers	Female	145	3.65	0.60	1.21	
T	Male	70	3.55	0.53	1.04	
Intrinsic aspect of job	Female	145	3.64	0.46	-1.24	
T-1 4' C- 4'	Male	70	3.53	0.53	0.24	
Job satisfaction	Female	145	3.51	0.52	0.24	
XX/	Male	70	3.43	0.65	0.06	
Work conditions	Female	145	3.44	0.52	-0.06	
T . 1	Male	70	3.35	0.42	0.00	
Total	Female	145	3.40	0.38	-0.88	

^{*} p<0.05

The table 19 shows the comparison of work morale of public health personnel of health centers in Krabi province and gender in an overall picture and found no difference. When looking into each item, it was household economic status that had the difference with p<0.05.

Table 20: Analysis of variance of work morale of public health personnel of health centers in Krabi province and age

Work morale components	Sources of variance	SS	df	MS	F
	Between group	0.76	. 3	0.25	0.76
Household economic status	Within group	70.68	211	0.33	
	Total	71.44	214		
Opportunities for ich	Between group	0.94	3	0.31	0.87
Opportunities for job	Within group	75.31	211	0.36	
advancement	Total	76.25	214		
	Between group	0.42	3	0.14	0.27
Relationships with supervisor	Within group	108.37	211	0.51	
-	Total	108.79	214		
	Between group	4.53	3	1.51	4.11*
Relationships with peers	Within group	77.59	211	0.37	
	Total	82.12	214		
	Between group	0.58	3	0.19	0.82
Intrinsic aspect of job	Within group	49.77	211	0.23	
	Total	50.35	214		
	Between group	2.89	3	0.96	3.65*
Job satisfaction	Within group	55.81	211	0.26	
	Total	58.70	214		
	Between group	3.09	3	1.03	3.32*
Work conditions	Within group	65.41	211	0.31	
	Total	68.50	214		
	Between group	1.00	3	0.33	2.18
Total	Within group	32.32	211	0.15	
	Total	33.32	214		
* < 0.05					

^{*} p<0.05

The table 20 shows the comparison of work morale of public health personnel of health centers in Krabi province and age in an overall picture and found no difference. When looking into each item, it was relationship with peers, job satisfaction, and work conditions, that had the difference with p<0.05.

Table 21: Comparison of the mean of work morale of public health personnel of health centers in Krabi province and age range

Work morale	A 22 man 22			Age range (Year)				
components	Age range (years)	μ	1 3.49	2 3.82	3 3.77	4 3.58		
	< 30	3.49		*	*			
Relationship with	30-39	3.82						
peers	40-49	3.77						
-	≥ 50	3.58						
			3.36	3.57	3.64	3.63		
	< 30	3.36		*	*			
T-14'-f4'	30-39	3.57						
Job satisfaction	40-49	3.64						
	≥ 50	3.63						
			3.27	3.55	3.49	3.41		
	< 30	3.37		*	*			
W7 - d 1141	30-39	3.55						
Work conditions	40-49	3.49						
	≥ 50	3.41						
* p<0.05						,		

^{1 = &}lt; 30 years

The table 21 shows the pair with statistic relationship at 0.05 of work morale with age range, in terms of relationship with peers, job satisfaction, and work conditions; they were the range of less than 30 years and between 30-39 years, and less than 30 years, and between 40-49 years.

 $^{2 = 30-39 \}text{ years}$

 $^{3 = 40-49 \}text{ years}$

 $^{4 = \}geq 50 \text{ years}$

Table 22: Analysis of variance of work morale of public health personnel of health centers in Krabi province and marital status

Work morale components	Sources of variance	SS	df	MS	F
	Between group	€ 0.21	2	0.11	0.32
Household economic status	Within group	71.23	212	0.34	
	Total	71.44	214		
Oidifidi	Between group	0.53	2	0.26	0.74
Opportunities for job	Within group	75.72	212	0.34	
advancement	Total	76.25	214		
	Between group	0.06	2	0.30	0.06
Relationships with supervisor	Within group	108.73	212	0.51	
1	Total	108.79	214		
	Between group	2.41	2	1.20	3.20*
Relationships with peers	Within group	79.71	212	0.38	
celationships with peers	Total	82.12	214		
	Between group	0.80	2	0.40	1.71
Intrinsic aspect of job	Within group	49.55	212	0.23	
, J	Total	50.35	214		
	Between group	2.66	2	1.33	5.02*
Job satisfaction	Within group	56.04	212	0.26	
	Total	58.70	214		
	Between group	1.80	2	0.90	2.85
Work conditions	Within group	66.71	212	0.31	
5 5	Total	68.50	214		
	Between group	0.78	2	0.39	2.55
Total	Within group	32.53	212	0.15	
2 0 002				00	
* .0.05	Total	33.32	214		

* p<0.05

The table 22 shows the comparison between work morale of the samples with marital status in an overall picture and found no difference. Looking into each item, the statistical difference at 0.05 level were in relationship with peers and job satisfaction.

Table 23: Comparison of the mean of work morale of public health personnel of health centers in Krabi province and marital status

Work morale	marital			marital statu	S
components	status	μ	1 3.55	2 3.76	3 3.54
	Single	3.55		*	
	Married	3.76			
Relationships with	Separated,	3.54			
peers	Divorced,				
	Widow or				
	widower				A_
			3.36	3.60	3.55
	Single	3.36		*	
	Married	3.60			
Job satisfaction	Separated,	3.55			
Job Saustaction	Divorced,				
	Widow or				
	widower				
* p<0.05					
1 =	single				
2 =	married				
3 =	Separated, Divo	rced, Wid	low or widov	wer	

The table 23 shows the pair with statistic relationship at 0.05 of work morale with marital status, in terms of relationship with peers and job satisfaction; they were single and married status.

Table 24: Analysis of variance of work morale of public health personnel of health centers in Krabi province and highest education level

Work morale components	Sources of	SS	df	MS	F	
work morate components	variance		uı	IVIS	1.	
	Between group	0.36	2	0.18	0.54	
Household economic status	Within group	71.08	212	0.33		
	Total	71.44	214			
Our automitica famial	Between group	0.88	2	0.44	1.23	
Opportunities for job	Within group	75.37	212	0.36		
advancement	Total	76.25	214			
	Between group	0.17	2	0.09	0.17	
Relationships with supervisor	Within group	108.62	212	0.51		
•	Total	108.79	214			
	Between group	0.91	2	0.45	1.18	
Relationships with peers	Within group	81.21	212	0.38		
teramonomps with poors	Total	82.12	214			
	Between group	1.17	2	0.58	2.51	
Intrinsic aspect of job	Within group	49.18	212	0.23		
1 7	Total	4535	214			
	Between group	0.73	2	0.36	1.34	
Job satisfaction	Within group	57.96	212	0.27		
	Total	58.69	214			
	Between group	0.23	2	0.11	0.35	
Work conditions	Within group	68.27	212	0.32		
	Total	68.50	214			
	Between group	0.29	2	0.14	0.40	
Total		33.03	212	0.16		
2 3 3 3 3 3	0 1					
Total	Within group Total	33.03 33.32	212 214	0.16		

The table 24 shows the comparison between work morale of the samples with highest education obtained in an overall picture as well as in each item and found no difference.

Table 25: The comparison of difference between the mean of work morale of public health personnel of health centers and job position

Work morale components	job position	N	μ	σ	T
Household economic status	head	61	2.74	0.51	0.87
Household economic status	employee	154	2.67	0.60	
Opportunities for job advancement	head	61	3.17	0.59	-0.04
	employee	154	3.17	0.60	
Relationships with supervisor	head	61	3.41	0.73	-1.90
•	employee	154	3.62	0.70	
Relationships with peers	head	61	3.91	0.	3.50*
• •	employee	154	3.59	0.64	
Intrinsic aspect of job	head	61	2.65	0.47	0.73
. ,	Employee	154	3.59	0.49	
Job satisfaction	head	61	3.66	0.49	2.58*
	Employee	154	3.46	0.53	
XX7 1 1'.'	head	61	3.51	0.52	0.45
work conditions	Employee	154	3.40	0.58	
T 4-1	head	61	3.44	0.35	0.18
। ठावा	Employee	154	3.36	0.41	
	head Employee head Employee head	61 154 61 154 61	3.66 3.46 3.51 3.40 3.44	0.49 0.53 0.52 0.58 0.35	0.4

^{*} p<0.05

The table 25 shows the comparison between work morale of the samples with job position in an overall picture and found no difference. Looking into each item, the statistical difference at 0.05 level were in relationship with peers and job satisfaction.

Table 26: Analysis of variance of work morale of public health personnel of health centers in Krabi province and job post in line of work

	· · ·				
Work morale components	Sources of	SS	df	MS	F
	variance		<u></u>	1410	
	Between group	4.60	4	1.15	3.62*
Household economic status	Within group	66.84	210	0.32	
	Total	71.44	214		
Ommantumities for ich	Between group	3.16	4	0.79	2.27
Opportunities for job advancement	Within group	73.09	210	0.34	
advancement	Total	76.25	214		
	Between group	5.04	4	1.26	2.55*
Relationships with supervisor	Within group	103.75	210	0.49	
•	Tota!	108.79	214		
	Between group	3.71	4	0.93	2.49*
Relationships with peers	Within group	78.41	210	0.37	
• •	Total	82.12	214		
	Between group	1.91	4	0.48	2.07
Intrinsic aspect of job	Within group	48.43	210	0.23	
	Total	50.34	214		
	Between group	3.04	4	0.76	2.87*
Job satisfaction	Within group	55.66	210	0.26	
	Total	58.70	214		
	Between group	1.67	4	0.42	1.31
Work conditions	Within group	66.83	210	0.32	
	Total	68.50	214		
•	Between group	1.05	4	0.26	1.71
Total	Within group	32.27	210	0.15	
	Total	33.32	214	•	
4 005		·			

* p<0.05

The table 26 shows the comparison between work morale of the samples with job post in line of work in an overall picture and found no difference. Looking into each item, the statistical difference at 0.05 level were in household economic status, relationship with supervisor, with peers, and job satisfaction.

Table 27: Comparison of the mean of work morale of public health personnel of health centers in Krabi province and job post in line of work

Work morale	ich nost in line of			job post	t in line	of wor	k
	job post in line of	μ	1	2	3	4	5
components	work	•	2.71	2.71	2.86	2.50	2.36
	Public Health	2.71		•			• • •
	Administrator						
	Public Health	2.71					
Household	Technical Officer						
economic	Registered Nurse	2.86				*	*
status	Community Health	2.50					
	Officer						
	Community Dental	2.36					
	Health Officer						
			3.34	3.78	3.59	3.55	3.93
	Public Health	3.34		*			
	Administrator	5.51					
	Public Health	3.78					
Relationships	Technical Officer	5.70					
with supervisor	Registered Nurse	3.59					
	Community Health	3.55					
	Officer	3.00					
	Community Dental	3.93					
	Health Officer	5.75					
	Troutin Officer		3.90	3.67	3.58	3.59	3.79
	Public Health	3.90			*	*	
	Administrator	3.90					
	Public Health	3.67					
	Technical Officer	3.07					
Relationships	Registered Nurse	3.58					
with peers	Community Health	3.59					
	Officer	3.37					
	Community Dental	3.79					
	Health Officer	3.17					
	Public Health	3.67				*	
	Administrator	3.07					
	Public Health	3.59				*	
	Technical Officer	3.33					
Job	Registered Nurse	3.51					
satisfaction	Community Health	3.36		_			
	Officer	٥٠.٠		-			
	VALICEL						
	Community Dental	3.36					

^{*} p<0.05

- 1 Public Health Administrator
- 2 = Public Health Technical Officer
- 3 = Registered Nurse
- 4 = Community Health Officer
- 5 = Community Dental Health Officer

The table 27 shows the pair with statistic relationship at 0.05 of work morale with job post in line of work, in terms of household economic status which was registered nurse and community health officer and registered nurse and community dental health officer. In terms of relationship with supervisor, the pair in difference were public health administrator and public health technical officer. In terms of relationship with peers, the pair in difference were public health administrator and registered nurse, and between public health administrator and community health officer. For job satisfaction, the pair in difference were public health administrator and community health officer, and between and public health technical officer and community health officer.

Table 28: Analysis of variance of work morale of public health personnel of health centers in Krabi province and job status

Work morale components	Sources of	SS	df	MS	F
	variance				
	Between group	0.20	2	0.10	0.29
Household economic status	Within group	71.24	212	0.34	
	Total	71.44	214		
Opportunities for ich	Between group	0.11	2	0.05	0.15
Opportunities for job	Within group	76.14	212	0.36	
advancement	Total	76.25	214		
	Between group	1.29	2	0.64	1.27
Relationships with supervisor	Within group	107.50	212	0.51	
•	Total	108.79	214		
	Between group	0.57	2	0.28	0.74
Relationships with peers	Within group	81.55	212	0.38	
• •	Total	82.12	214		
	Between group	0.10	2	0.05	0.21
Intrinsic aspect of job	Within group	50.25	212	0.24	
1	Total	50.35	214		
	Between group	0.61	2	0.30	1.11
Job satisfaction	Within group	58.09	212	0.27	
	Total	58.70	214		
	Between group	1.06	2	0.53	1.66
Work conditions	Within group	67.44	212	0.32	
,, o o	Total	68.50	214		
	Between group	0.09	2	0.45	0.29
Total	Within group	33.23	212	0.16	J
1 0 664	Total	33.32	214	0.10	

The table 28 shows the comparison between work morale of the samples with job status in an overall picture and each item and found no difference.

Table 29: Analysis of variance of work morale of public health personnel of health centers in Krabi province and working experiences

Work morale components	Sources of	SS	df	MS	F
<u> </u>	variance	^ 1 -			
	Between group	0.17	2	0.83	0.25
Household economic status	Within group	71.27	212	0.34	
	Total	71.44	214		
Opportunities for ich	Between group	0.55	2	0.27	0.77
Opportunities for job	Within group	75.70	212	0.36	
advancement	Total	76.25	214		
	Between group	0.36	2	0.18	0.36
Relationships with supervisor	Within group	108.43	212	0.51	
, , , , , , , , , , , , , , , , , , ,	Total	108.79	214		
	Between group	9.20	2	4.60	13.37*
Relationships with peers	Within group	72.92	212	0.34	
reduced simps with pools	Total	82.12	214		
	Between group	1.71	2	0.85	3.72*
Intrinsic aspect of job	Within group	48.64	212	0.23	3.,2
intrinsic aspect of joo	Total	50.35	214	0.25	
	Between group	4.78	2	2.39	9.40*
Job satisfaction	Within group	53.92	212	0.25	7.70
Job Saustaction	Total	58.70	214	0.23	
				2 17	7 10*
***	Between group	4.34	2	2.17	7.18*
Work conditions	Within group	64.16	212	0.30	
	Total	68.50	214		
	Between group	1.28	2	0.64	4.23*
Total	Within group	32.04	212	0.15	
	Total	33.32	214		
4 005					

^{*} p<0.05

The table 29 shows the comparison between work morale of the samples with working experiences in an overall picture and found 0.05 statistical significance. When looking into each item, there were 0.05 statistical significance, in terms of relationship with peers, intrinsic aspect to job, job satisfaction, and work conditions

Table 30: Comparison of the mean of work morale of public health personnel of health centers in Krabi province and working experiences

Work morale	Working		work	ing exper	riences
	_	μ	1	2	3
components	experiences	•	3.48	3.97	3.75
D -1-4'1-1141-	Less than 10 years	3.48		*	*
Relationships with	10-20 years	3.97			
peers	More than 20 years	3.75			
		-	3.54	3.60	3.76
	Less than 10 years	3.54			*
Intrinsic aspect of job	10-20 years	3.60			
	More than 20 years	3.76			
			3.38	3.57	3.74
	Less than 10 years	3.38		*	*
Job satisfaction	10-20 years	3.57			
	More than 20 years	3.74			
			3.29	3.62	3.50
	Less than 10 years	3.29		*	*
Work conditions	10-20 years	3.62			
	More than 20 years	3.50			
			3.30	3.44	3.47
	Less than 10 years	3.30		*	*
Total	10-20 years	3.44			
	More than 20 years	3.47			
* p<0.05					
-					

^{1 =} Less than 10 years

The table 30 shows the pair in difference with 0.05 statistical significance of work morale of the samples and working experiences in an overall picture were less than 10 years work experiences and between 10-20 years, and between less than 10 years and more than 20 years.

In terms of relationship to peers, work conditions, job satisfaction, namely, those with less than 10 years work experiences and between 10-20 years, and between less than 10 years and more than 20 years.

 $^{2 = 10-20 \}text{ years}$

^{3 =} More than 20 years

For intrinsic aspect to job found key pair of different in less than 10 years experience and more than 20 years.

Table 31: Analysis of variance of work morale of public health personnel of health centers in Krabi province and monthly household income

Work morale components	Sources of variance	SS	df	MS	F
	Between group	2.33	2	1.17	3.58*
Household economic status	Within group	69.11	212	0.33	
	Total	71.44	214		
	Between group	0.71	2	0.36	1.00
Opportunities for job	Within group	75.54	212	0.36	
advancement	Total	76.25	214		
	Between group	0.77	2	0.39	0.76
Relationships with supervisor	Within group	108.12	212	0.51	
•	Total	108.79	214		
	Between group	3.33	2	1.67	4.45*
Relationships with peers	Within group	78.79	212	0.37	
1	Total	82.12	214		
	Between group	0.71	2	0.35	1.51
Intrinsic aspect of job	Within group	49.64	212	0.23	
	Total	50.35	214		
	Between group	3.85	2	1.92	7.45*
Job satisfaction	Within group	54.85	212	0.26	
	Total	58.70	214		
	Between group	2.19	2	1.09	3.50*
Work conditions	Within group	66.31	212	0.31	
	Total	68.50	214		
	Between group	1.10	2	0.55	3.63*
Total	Within group	32.21	212	0.15	
Total	Sources of	33.32	214		
	variance				

^{*} p<0.05

The table 31 shows the comparison between work morale of the samples and monthly household income in an overall picture and found 0.05 statistical

significance. In each item, it found that household economic status, relationship with peers, job satisfaction, and work conditions, had 0.05 statistical significance.

Table 32: Comparison of the mean of work morale of public health personnel of health centers in Krabi province and monthly household income

monthly household		mom	hly house	Siloid
· ·	μ	1		3
meome		2.53	2.66	2.80
Less than 15,000 Baht	2.53	-		*
15,000-30,000 Baht	2.66			
More than 30,000 Baht	2.80			
		3.56	3.59	3.84
Less than 15,000 Baht	3.56			*
15,000-30,000 Baht	3.59			*
More than 30,000 Baht	3.84			
		3.35	3.45	3.68
Less than 15,000 Baht	3.35			*
15,000-30,000 Baht	3.45			*
More than 30,000 Baht	3.68			
		3.26	3.43	3.53
Less than 15,000 Baht	3.26			*
15,000-30,000 Baht	3.43			
More than 30,000 Baht	3.53			
		3.30	3.33	3.47
Less than 15,000 Baht	3.30			*
15,000-30,000 Baht	3.33			*
More than 30,000 Baht	3.47			
<u> </u>				
Less than 15,000 Baht				
	15,000-30,000 Baht More than 30,000 Baht Less than 15,000 Baht 15,000-30,000 Baht More than 30,000 Baht Less than 15,000 Baht 15,000-30,000 Baht More than 30,000 Baht Less than 15,000 Baht 15,000-30,000 Baht More than 30,000 Baht Less than 15,000 Baht More than 30,000 Baht More than 30,000 Baht	Income Less than 15,000 Baht 2.53 15,000-30,000 Baht 2.66 More than 30,000 Baht 3.56 15,000-30,000 Baht 3.59 More than 30,000 Baht 3.84 Less than 15,000 Baht 3.45 More than 30,000 Baht 3.45 More than 30,000 Baht 3.68 Less than 15,000 Baht 3.68 Less than 15,000 Baht 3.68 Less than 15,000 Baht 3.43 More than 30,000 Baht 3.53 Less than 15,000 Baht 3.53 Less than 15,000 Baht 3.53 Less than 15,000 Baht 3.30 More than 30,000 Baht 3.30 15,000-30,000 Baht 3.33 More than 30,000 Baht 3.33 More than 30,000 Baht 3.33	income Less than 15,000 Baht 15,000-30,000 Baht 2.66 More than 30,000 Baht 2.80 Less than 15,000 Baht 3.56 Less than 15,000 Baht 3.59 More than 30,000 Baht 3.84 Less than 15,000 Baht 3.35 Less than 15,000 Baht 3.45 More than 30,000 Baht 3.68 Less than 15,000 Baht 3.68 Less than 15,000 Baht 3.26 Less than 15,000 Baht 3.30 Less than 30,000 Baht 3.30	Less than 15,000 Baht 2.53 15,000-30,000 Baht 2.80 Less than 15,000 Baht 2.80 Less than 15,000 Baht 3.56 15,000-30,000 Baht 3.59 More than 30,000 Baht 3.84 Less than 15,000 Baht 3.45 More than 30,000 Baht 3.45 More than 30,000 Baht 3.68 Less than 15,000 Baht 3.68 Less than 15,000 Baht 3.26 15,000-30,000 Baht 3.43 More than 30,000 Baht 3.43 More than 30,000 Baht 3.53 Less than 15,000 Baht 3.30 15,000-30,000 Baht 3.33 More than 30,000 Baht 3.47

^{15,000-30,000} Baht

The table 32 shows the pair in difference with 0.05 statistical significance of work morale of the samples and monthly household income in an overall picture were less than 15,000 baht and more than 30,000 baht, and 15,000-30,000 baht and more than 30,000 baht.

More than 30,000 Baht

In terms of household economic status and work conditions were less than 15,000 baht and more than 30,000 baht.

In terms of Relationships with peers and job satisfaction, it found the key pair of difference in below 15,000 baht and more than 30,000 baht, and 15,000-30,000 baht and more than 30,000 baht.

Table 33: Numbers of opinions and suggestion regarding the promotion for work morale

Items	Number
Adjust salary rate/wage for higher to be in line with economic	42
situation	
Should arrange for more welfare from present ones ie per diem,	33
rewards	
Increase manpower to be in line with more tasks	27
Should have provincial executives to give an orientation/visit the	24
centers on a constant basis	
Should have training to revive knowledge on a constant and	23
continuing basis	
Should be criteria to allocate money to boost up morale/proper	21
annual rewards	
Should have in place job description of each position in a clear	19
manner and not redundant with other positions	
Should have promotion in salary in employees as in officers	17
Should allow to have student trainees of Ministry of Public Health	15
to be officers	
Those finished Bachelor's degree should be considered for change	11
of job line without any examination	
There should be an evaluation for higher position promotion with	10
justice	
There should be a pause in transferring health centers to be in the	10
supervision of local administrative body	
There should be laws to protect work	9
There should be projects allowing people in other Amphurs to have	5
mutual activities	
Executives at all levels should perceive importance of employees at	3
the lower level more than now	
There should be an adjustment on data system/report system to	3
avoid redundancy	
There should be budgets to promote people to further their higher	3
education	-
There should be budgets to renovate landscape of health centers for	2
beautifying	_

Table 33 shows the opinions and suggestions of the samples for the first top 5 were adjust salary rate/wage for higher to be in line with economic situation for 42 samples, followed with Should arrange for more welfare from present ones i.e. per diem, rewards for 33 samples, increase manpower to be in line with more tasks for 27 samples, should have provincial executives to give an orientation/visit the centers on a constant basis for 24 samples and should have training to revive knowledge on a constant and continuing basis for 23 sample