

ภาคผนวก ข-16

เอกสารใบรับรอง ISO 14001 ISO45001 TIS18001

ISO 14001

ENVIRONMENTAL MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

CHEMAMAN PUBLIC COMPANY LIMITED KANGKOI PLANT

Address of premises : Tubkwang Mine and Tubkwang Dressing Plant
71 Moo 10,
Tubkwang, Kangkoi District,
Saraburi 18260, Thailand

has been assessed and found to be conforming to the requirements of
TIS 14001-2559 (ISO 14001:2015)

for the scope :
Limestone Mining and Limestone Dressing

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 24th May 2021

Valid Until 23rd May 2024

First Issued Date 27th May 2010

President
Management System Certification Institute (Thailand)



MASCI

certification

ISO 45001

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

CHEMAMAN PUBLIC COMPANY LIMITED

KANGKOI PLANT

Address of premises : Tubkwang Mine and Tubkwang Dressing Plant
71 Moo 10,
Tubkwang, Kangkoi District,
Saraburi 18260, Thailand

has been assessed and found to be conforming to the requirements of
TIS 45001-2561 (ISO 45001:2018)

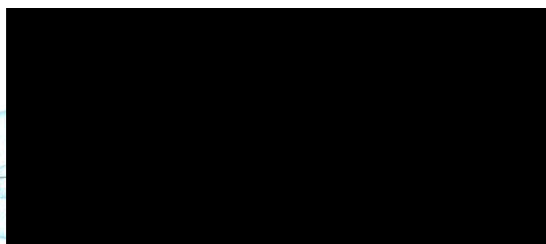
for the scope :

Limestone mining and limestone dressing

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 2nd September 2022Valid Until 1st September 2025

Migration from
BS OHSAS 18001:2007
First Issued Date 27th May 2010



President

Management System Certification Institute (Thailand)



MASCI

certification

TIS 18001

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

CHEMAMAN PUBLIC COMPANY LIMITED
KANGKOI PLANT

Address of premises : Tubkwang Mine and Tubkwang Dressing Plant
71 Moo 10,
Tubkwang, Kangkoi District,
Saraburi 18260, Thailand

has been assessed and found to be conforming to the requirements of
TIS 18001-2554 Occupational Health and Safety Management System

for the scope :

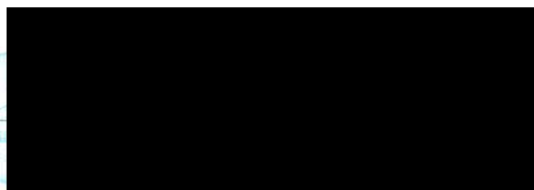
Limestone mining and limestone dressing

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 27th May 2022

Valid Until 26th May 2025

First Issued Date 27th May 2010



President
Management System Certification Institute (Thailand)



MASCI

ภาคผนวก ค

ใบรายงานผลการวิเคราะห์

ภาคผนวก ค-1

ใบรายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไป

ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 71 MOO 10 TABKWANG KAENGKHOI SARABURI 18260
CONTACT INFORMATION : TEL : 0 2661 9734-8 e-mail : ouriphonn@chememan.com
SAMPLING SOURCE : TUBKWANG MINE 71 MOO 10, TUBKWANG, KAENGKHOI, SARABURI 18260.
SAMPLE TYPE : AMBIENT **RECEIVED DATE** : APRIL 4, 2023
SAMPLING DATE : *, **, *** **ANALYTICAL DATE** : APRIL 4-10, 2023
SAMPLING TIME : *, **, *** **REPORT NO.** : 2023-U028113
SAMPLING BY : MR AUSADAWUT YONSIRI **WORK NO.** : 2023-000549
ANALYZED BY : MISS JETJARIN TUMSA-AT **ANALYSIS NO.** : T23AF979-0001 - T23AF979-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บริเวณหน้าสำนักงานโรงแต่งแร่ห้วยขวาง		
			* T23AF979-0001	** T23AF979-0002	*** T23AF979-0003
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.197	0.194	0.239
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.030	0.030	0.035
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 09:00 HOUR ON MARCH 30, 2023 TO 09:00 HOUR ON MARCH 31, 2023.
** : SAMPLING FROM 09:00 HOUR ON MARCH 31, 2023 TO 09:00 HOUR ON APRIL 1, 2023.
*** : SAMPLING FROM 09:00 HOUR ON APRIL 1, 2023 TO 09:00 HOUR ON APRIL 2, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

APRIL 20, 2023



ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 71 MOO 10 TABKWANG KAENGKHOI SARABURI 18260
CONTACT INFORMATION : TEL : 0 2661 9734-8 e-mail : ouriphonn@chememan.com
SAMPLING SOURCE : TUBKWANG MINE 71 MOO 10, TUBKWANG, KAENGKHOI, SARABURI 18260.
SAMPLE TYPE : AMBIENT **RECEIVED DATE** : APRIL 4, 2023
SAMPLING DATE : *, **, *** **ANALYTICAL DATE** : APRIL 4-10, 2023
SAMPLING TIME : *, **, *** **REPORT NO.** : 2023-U028114
SAMPLING BY : MR AUSADAWUT YONSIRI **WORK NO.** : 2023-000549
ANALYZED BY : MISS JETJARIN TUMSA-AT **ANALYSIS NO.** : T23AF979-0004 - T23AF979-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			สถาบันวิจัยห้วยขวาง		
			* T23AF979-0004	** T23AF979-0005	*** T23AF979-0006
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.115	0.095	0.079
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.080	0.068	0.059
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 08:30 HOUR ON MARCH 30, 2023 TO 08:30 HOUR ON MARCH 31, 2023.
** : SAMPLING FROM 08:30 HOUR ON MARCH 31, 2023 TO 08:30 HOUR ON APRIL 1, 2023.
*** : SAMPLING FROM 08:30 HOUR ON APRIL 1, 2023 TO 08:30 HOUR ON APRIL 2, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

APRIL 20, 2023



ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 71 MOO 10 TABKWANG KAENGKHOI SARABURI 18260
CONTACT INFORMATION : TEL : 0 2661 9734-8 e-mail : ouriphonn@chememan.com
SAMPLING SOURCE : TUBKWANG MINE 71 MOO 10, TUBKWANG, KAENGKHOI, SARABURI 18260.
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR AUSADAWUT YONSIRI
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : APRIL 4, 2023
ANALYTICAL DATE : APRIL 4-10, 2023
REPORT NO. : 2023-U028115
WORK NO. : 2023-000549
ANALYSIS NO. : T23AF979-0007 - T23AF979-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			ชุมชนบ้านท่าพัฒนา		
			* T23AF979-0007	** T23AF979-0008	*** T23AF979-0009
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.041	0.063	0.054
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.023	0.042	0.034
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 09:30 HOUR ON MARCH 30, 2023 TO 09:30 HOUR ON MARCH 31, 2023.
** : SAMPLING FROM 09:30 HOUR ON MARCH 31, 2023 TO 09:30 HOUR ON APRIL 1, 2023.
*** : SAMPLING FROM 09:30 HOUR ON APRIL 1, 2023 TO 09:30 HOUR ON APRIL 2, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

APRIL 20, 2023



ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 71 MOO 10 TABKWANG KAENGKHOI SARABURI 18260
CONTACT INFORMATION : TEL : 0 2661 9734-8 e-mail : ouriphonn@chememan.com
SAMPLING SOURCE : TUBKWANG MINE 71 MOO 10, TUBKWANG, KAENGKHOI, SARABURI 18260.
SAMPLE TYPE : AMBIENT **RECEIVED DATE** : APRIL 4, 2023
SAMPLING DATE : *, **, *** **ANALYTICAL DATE** : APRIL 4-10, 2023
SAMPLING TIME : *, **, *** **REPORT NO.** : 2023-U028116
SAMPLING BY : MR AUSADAWUT YONSIRI **WORK NO.** : 2023-000549
ANALYZED BY : MISS JETJARIN TUMSA-AT **ANALYSIS NO.** : T23AF979-0010 - T23AF979-0012

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			ชุมชนบ้านไทย		
			* T23AF979-0010	** T23AF979-0011	*** T23AF979-0012
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.050	0.042	0.040
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.028	0.029	0.029
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 08:30 HOUR ON MARCH 30, 2023 TO 08:30 HOUR ON MARCH 31, 2023.
** : SAMPLING FROM 08:30 HOUR ON MARCH 31, 2023 TO 08:30 HOUR ON APRIL 1, 2023.
*** : SAMPLING FROM 08:30 HOUR ON APRIL 1, 2023 TO 08:30 HOUR ON APRIL 2, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

APRIL 20, 2023



ภาคผนวก ค-2

ใบรายงานผลการตรวจวัดระดับเสียงโดยทั่วไป

ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 195/11-12 LAKE RAJADA OFFICE COMPLEX 2 TENTH-ELEVENTH FLOOR RATCHADAPHISEK ROAD KHLONG TOEI
KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 09 0160 7226 e-mail : mananyab@chememan.com
MEASURING SOURCE : บริเวณหน้าสำนักงานโรงแรมแบริ่ง
MEASURING TYPE : AMBIENT (NOISE) **RECEIVED DATE** : MARCH 30 - APRIL 2, 2023
MEASURING DATE : MARCH 30 - APRIL 2, 2023 **ANALYTICAL DATE** : MARCH 30 - APRIL 2, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U026831
MEASURING METHOD : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2023-000549
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF980-0001 - T23AF980-0003

TIME*	RESULT dB(A)		
	บริเวณหน้าสำนักงานโรงแรมแบริ่ง		
	MARCH 30-31, 2023		
	T23AF980-0001		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	60.3	79.8	46.0
08:00-09:00 HOUR	67.2	80.6	58.9
09:00-10:00 HOUR	66.6	82.4	57.8
10:00-11:00 HOUR	66.5	83.2	57.9
11:00-12:00 HOUR	65.8	80.1	55.8
12:00-13:00 HOUR	65.5	81.0	56.6
13:00-14:00 HOUR	66.6	83.8	59.2
14:00-15:00 HOUR	67.1	81.7	60.3
15:00-16:00 HOUR	61.6	78.0	54.5
16:00-17:00 HOUR	63.4	75.6	57.7
17:00-18:00 HOUR	62.2	76.2	55.3
18:00-19:00 HOUR	63.8	85.7	55.4
19:00-20:00 HOUR	60.6	78.6	55.7
20:00-21:00 HOUR	52.0	68.1	46.7
21:00-22:00 HOUR	53.3	72.5	39.9
22:00-23:00 HOUR	48.1	67.1	43.8
23:00-00:00 HOUR	46.6	66.4	39.2
00:00-01:00 HOUR	43.4	65.9	38.0
01:00-02:00 HOUR	39.8	60.5	37.8
02:00-03:00 HOUR	38.6	58.7	37.3
03:00-04:00 HOUR	39.6	59.1	37.7
04:00-05:00 HOUR	54.3	76.4	41.2
05:00-06:00 HOUR	64.5	78.7	56.9
06:00-07:00 HOUR	65.9	82.0	57.6
L _{Aeq} 24 hours		63.1	
L _{Adn}		66.7	



TIME*	RESULT dB(A)		
	บริเวณหน้าสำนักงานโรงแรมแรมบาว		
	MARCH 31 - APRIL 1, 2023		
	T23AF980-0002		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	66.1	80.5	57.0
08:00-09:00 HOUR	65.9	87.6	53.5
09:00-10:00 HOUR	67.1	92.5	55.4
10:00-11:00 HOUR	65.6	85.7	58.5
11:00-12:00 HOUR	66.7	84.1	58.0
12:00-13:00 HOUR	66.6	79.3	57.6
13:00-14:00 HOUR	59.3	81.5	54.9
14:00-15:00 HOUR	62.2	78.1	53.3
15:00-16:00 HOUR	65.0	88.0	53.0
16:00-17:00 HOUR	59.0	75.5	53.3
17:00-18:00 HOUR	52.2	71.0	44.4
18:00-19:00 HOUR	62.8	80.8	47.2
19:00-20:00 HOUR	63.1	79.6	52.3
20:00-21:00 HOUR	63.3	78.4	57.4
21:00-22:00 HOUR	47.7	66.9	43.8
22:00-23:00 HOUR	48.2	66.4	44.8
23:00-00:00 HOUR	45.5	66.9	38.7
00:00-01:00 HOUR	46.9	68.7	38.0
01:00-02:00 HOUR	44.8	64.7	38.9
02:00-03:00 HOUR	41.2	64.7	37.1
03:00-04:00 HOUR	41.1	63.4	37.4
04:00-05:00 HOUR	43.6	62.7	39.5
05:00-06:00 HOUR	67.5	82.7	53.9
06:00-07:00 HOUR	70.7	82.0	67.2
L _{Aeq} 24 hours		63.7	
L _{Adn}		69.5	

TIME*	RESULT dB(A)		
	บริเวณหน้าสำนักงานโรงแรมแรมบาว		
	APRIL 1-2, 2023		
	T23AF980-0003		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	69.0	78.7	64.7
08:00-09:00 HOUR	70.9	88.9	67.8
09:00-10:00 HOUR	67.4	87.8	57.9
10:00-11:00 HOUR	66.4	82.2	58.7
11:00-12:00 HOUR	67.1	80.4	57.2
12:00-13:00 HOUR	67.7	81.6	59.7
13:00-14:00 HOUR	65.3	84.1	54.3
14:00-15:00 HOUR	66.2	80.5	59.6
15:00-16:00 HOUR	65.4	81.7	58.4
16:00-17:00 HOUR	61.3	78.0	54.7
17:00-18:00 HOUR	63.4	81.9	52.5
18:00-19:00 HOUR	66.4	80.0	58.4
19:00-20:00 HOUR	62.2	75.7	53.1
20:00-21:00 HOUR	60.5	83.7	54.8
21:00-22:00 HOUR	52.6	67.7	44.3
22:00-23:00 HOUR	57.9	82.8	45.8
23:00-00:00 HOUR	45.7	65.0	42.9
00:00-01:00 HOUR	43.6	63.1	39.1
01:00-02:00 HOUR	45.8	66.0	39.3
02:00-03:00 HOUR	39.7	59.0	37.8
03:00-04:00 HOUR	42.3	65.0	37.6
04:00-05:00 HOUR	43.7	69.8	37.6
05:00-06:00 HOUR	41.5	59.4	38.8
06:00-07:00 HOUR	58.2	73.9	45.3
L _{Aeq} 24 hours		64.3	
L _{Adn}		65.1	

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

APRIL 12, 2023

- PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 195/11-12 LAKE RAJADA OFFICE COMPLEX 2 TENTH-ELEVENTH FLOOR RATCHADAPHISEK ROAD KHLONG TOEI
KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 09 0160 7226 e-mail : mananyab@chememan.com
MEASURING SOURCE : สถานีวิจัยห้วงทางมหาวิทยาลัยเกษตรศาสตร์
MEASURING TYPE : AMBIENT (NOISE) **RECEIVED DATE** : MARCH 30 - APRIL 2, 2023
MEASURING DATE : MARCH 30 - APRIL 2, 2023 **ANALYTICAL DATE** : MARCH 30 - APRIL 2, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U026832
MEASURING METHOD : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2023-000549
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF980-0004 - T23AF980-0006

TIME*	RESULT dB(A)		
	สถานีวิจัยห้วงทางมหาวิทยาลัยเกษตรศาสตร์		
	MARCH 30-31, 2023		
	T23AF980-0004		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	60.4	72.0	55.5
08:00-09:00 HOUR	56.1	73.1	46.5
09:00-10:00 HOUR	59.8	71.9	48.3
10:00-11:00 HOUR	59.0	71.4	48.4
11:00-12:00 HOUR	58.0	72.1	47.6
12:00-13:00 HOUR	59.5	70.8	46.5
13:00-14:00 HOUR	56.8	70.9	47.7
14:00-15:00 HOUR	59.1	69.2	47.7
15:00-16:00 HOUR	58.8	78.8	47.3
16:00-17:00 HOUR	60.5	77.7	48.6
17:00-18:00 HOUR	52.1	68.1	48.0
18:00-19:00 HOUR	61.6	76.3	48.9
19:00-20:00 HOUR	49.4	70.7	46.9
20:00-21:00 HOUR	49.3	71.6	45.8
21:00-22:00 HOUR	47.5	51.8	46.5
22:00-23:00 HOUR	47.4	55.8	46.0
23:00-00:00 HOUR	49.2	67.8	47.2
00:00-01:00 HOUR	50.9	73.8	47.4
01:00-02:00 HOUR	48.0	56.9	46.7
02:00-03:00 HOUR	47.7	56.0	46.5
03:00-04:00 HOUR	48.8	67.0	45.5
04:00-05:00 HOUR	49.4	69.7	45.0
05:00-06:00 HOUR	58.9	74.2	47.5
06:00-07:00 HOUR	62.7	76.7	50.2
L _{Aeq} 24 hours		57.3	
L _{Adn}		62.4	



TIME*	RESULT dB(A)		
	สถานีวัดห้วยขวาง มหาวิทยาลัยเกษตรศาสตร์		
	MARCH 31 - APRIL 1, 2023		
	T23AF980-0005		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	58.5	76.3	51.4
08:00-09:00 HOUR	55.1	73.6	44.7
09:00-10:00 HOUR	62.4	72.8	48.7
10:00-11:00 HOUR	61.6	72.8	49.5
11:00-12:00 HOUR	66.4	73.6	49.1
12:00-13:00 HOUR	55.3	72.4	47.3
13:00-14:00 HOUR	61.6	71.2	46.4
14:00-15:00 HOUR	58.4	71.3	47.6
15:00-16:00 HOUR	64.6	78.0	48.6
16:00-17:00 HOUR	60.3	73.3	48.8
17:00-18:00 HOUR	52.3	71.6	48.3
18:00-19:00 HOUR	60.8	79.0	51.4
19:00-20:00 HOUR	48.8	66.5	46.6
20:00-21:00 HOUR	61.4	94.2	45.6
21:00-22:00 HOUR	49.1	70.1	44.8
22:00-23:00 HOUR	46.6	60.9	45.3
23:00-00:00 HOUR	49.9	66.9	47.5
00:00-01:00 HOUR	49.6	70.2	47.1
01:00-02:00 HOUR	49.6	66.3	47.7
02:00-03:00 HOUR	47.5	53.4	46.4
03:00-04:00 HOUR	48.5	65.4	46.3
04:00-05:00 HOUR	52.9	70.2	47.1
05:00-06:00 HOUR	59.2	74.1	48.5
06:00-07:00 HOUR	62.1	78.5	50.0
L _{Aeq} 24 hours		59.4	
L _{Adn}		63.1	

TIME*	RESULT dB(A)		
	สถานีวิจัยห้วยขวาง มหาวิทยาลัยเกษตรศาสตร์		
	APRIL 1-2, 2023		
	T23AF980-0006		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	55.9	75.6	47.2
08:00-09:00 HOUR	56.5	77.8	46.3
09:00-10:00 HOUR	67.0	78.5	49.8
10:00-11:00 HOUR	64.3	75.5	45.0
11:00-12:00 HOUR	53.3	73.1	44.8
12:00-13:00 HOUR	64.1	73.4	43.8
13:00-14:00 HOUR	50.8	63.2	46.3
14:00-15:00 HOUR	61.8	75.0	45.2
15:00-16:00 HOUR	56.5	69.7	45.1
16:00-17:00 HOUR	52.2	73.0	45.1
17:00-18:00 HOUR	58.6	76.2	47.6
18:00-19:00 HOUR	61.6	75.6	47.7
19:00-20:00 HOUR	45.9	57.3	44.6
20:00-21:00 HOUR	46.0	52.8	44.5
21:00-22:00 HOUR	47.9	52.0	47.3
22:00-23:00 HOUR	49.4	60.2	48.2
23:00-00:00 HOUR	49.5	57.9	48.3
00:00-01:00 HOUR	48.8	55.1	47.3
01:00-02:00 HOUR	45.6	52.9	44.7
02:00-03:00 HOUR	48.0	66.6	46.3
03:00-04:00 HOUR	48.0	66.2	45.9
04:00-05:00 HOUR	51.4	69.7	46.2
05:00-06:00 HOUR	58.0	74.2	47.8
06:00-07:00 HOUR	61.7	76.2	52.3
L _{Aeq} 24 hours		58.9	
L _{Adn}		62.5	

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

APRIL 12, 2023

ANALYSIS REPORT

CUSTOMER NAME	: CHEMAMAN PUBLIC COMPANY LIMITED	RECEIVED DATE	: MARCH 30 - APRIL 2, 2023
ADDRESS	: 195/11-12 LAKE RAJADA OFFICE COMPLEX 2 TENTH-ELEVENTH FLOOR RATCHADAPHISEK ROAD KHLONG TOEI KHLONG TOEI BANGKOK 10110	ANALYTICAL DATE	: MARCH 30 - APRIL 2, 2023
CONTACT INFORMATION	: TEL : 09 0160 7226 e-mail : mananyab@chemaman.com	REPORT NO.	: 2023-U026833
MEASURING SOURCE	: ชุมชนบ้านถ้ำพัฒนา	WORK NO.	: 2023-000549
MEASURING TYPE	: AMBIENT (NOISE)	ANALYSIS NO.	: T23AF980-0007 - T23AF980-0009
MEASURING DATE	: MARCH 30 - APRIL 2, 2023		
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER		
MEASURED BY	: MR AUSADAWUT YONSIRI		

TIME*	RESULT dB(A)		
	ชุมชนบ้านถ้ำพัฒนา		
	MARCH 30-31, 2023		
	T23AF980-0007		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	57.9	71.3	53.3
08:00-09:00 HOUR	54.5	71.6	43.4
09:00-10:00 HOUR	56.9	77.3	47.8
10:00-11:00 HOUR	54.4	73.7	47.8
11:00-12:00 HOUR	54.6	75.4	47.4
12:00-13:00 HOUR	51.5	65.7	44.4
13:00-14:00 HOUR	57.4	84.5	48.4
14:00-15:00 HOUR	55.3	78.4	45.8
15:00-16:00 HOUR	58.0	77.1	49.5
16:00-17:00 HOUR	57.1	72.0	50.6
17:00-18:00 HOUR	54.4	72.2	45.0
18:00-19:00 HOUR	59.1	71.7	47.9
19:00-20:00 HOUR	49.2	65.7	43.1
20:00-21:00 HOUR	50.0	69.6	43.1
21:00-22:00 HOUR	54.2	85.3	38.8
22:00-23:00 HOUR	43.6	67.7	38.0
23:00-00:00 HOUR	46.6	69.3	37.6
00:00-01:00 HOUR	42.8	65.9	36.4
01:00-02:00 HOUR	50.6	62.9	50.6
02:00-03:00 HOUR	46.0	74.6	36.1
03:00-04:00 HOUR	38.6	57.7	36.1
04:00-05:00 HOUR	41.7	60.4	36.1
05:00-06:00 HOUR	55.5	66.5	39.2
06:00-07:00 HOUR	58.4	72.3	46.3
L _{Aeq} 24 hours		54.6	
L _{Adn}		58.9	



TIME*	RESULT dB(A)		
	ชุมชนบ้านท่าพัฒนา		
	MARCH 31 - APRIL 1, 2023		
	T23AF980-0008		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.3	77.7	48.9
08:00-09:00 HOUR	53.5	74.8	43.2
09:00-10:00 HOUR	57.8	83.3	46.7
10:00-11:00 HOUR	57.6	77.1	46.9
11:00-12:00 HOUR	58.5	76.3	47.6
12:00-13:00 HOUR	57.5	76.3	49.2
13:00-14:00 HOUR	59.0	69.2	50.6
14:00-15:00 HOUR	55.8	73.3	49.9
15:00-16:00 HOUR	58.2	70.5	50.8
16:00-17:00 HOUR	57.8	74.2	51.8
17:00-18:00 HOUR	57.0	75.2	48.8
18:00-19:00 HOUR	59.6	76.4	52.0
19:00-20:00 HOUR	52.1	66.7	47.2
20:00-21:00 HOUR	49.8	72.1	42.6
21:00-22:00 HOUR	45.8	65.2	40.2
22:00-23:00 HOUR	48.2	73.5	40.4
23:00-00:00 HOUR	45.4	67.3	40.4
00:00-01:00 HOUR	46.1	67.4	40.3
01:00-02:00 HOUR	46.5	66.5	41.0
02:00-03:00 HOUR	46.1	64.7	39.8
03:00-04:00 HOUR	45.4	64.7	41.7
04:00-05:00 HOUR	44.7	61.2	40.2
05:00-06:00 HOUR	57.2	69.9	42.5
06:00-07:00 HOUR	57.5	68.0	51.1
L _{Aeq} 24 hours		55.6	
L _{Adn}		59.4	

TIME*	RESULT dB(A)		
	ชุมชนบ้านท่าพัฒนา		
	APRIL 1-2, 2023		
	T23AF980-0009		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.0	79.8	48.8
08:00-09:00 HOUR	54.4	73.9	47.4
09:00-10:00 HOUR	53.5	69.2	46.8
10:00-11:00 HOUR	54.9	80.2	48.2
11:00-12:00 HOUR	58.7	73.1	50.6
12:00-13:00 HOUR	51.9	68.0	46.5
13:00-14:00 HOUR	55.0	69.1	47.1
14:00-15:00 HOUR	59.3	73.0	47.8
15:00-16:00 HOUR	56.4	69.7	48.6
16:00-17:00 HOUR	59.2	75.7	49.8
17:00-18:00 HOUR	60.7	72.3	49.9
18:00-19:00 HOUR	62.5	72.8	55.2
19:00-20:00 HOUR	51.6	68.0	46.1
20:00-21:00 HOUR	46.4	71.1	38.6
21:00-22:00 HOUR	45.6	65.7	38.1
22:00-23:00 HOUR	45.0	67.7	37.1
23:00-00:00 HOUR	43.3	66.4	35.3
00:00-01:00 HOUR	45.9	66.7	35.5
01:00-02:00 HOUR	46.9	64.8	40.7
02:00-03:00 HOUR	41.6	59.2	36.6
03:00-04:00 HOUR	45.9	64.3	35.1
04:00-05:00 HOUR	43.4	63.6	36.3
05:00-06:00 HOUR	49.8	64.0	42.2
06:00-07:00 HOUR	56.8	76.6	43.7
L _{Aeq} 24 hours		55.5	
L _{Adn}		58.1	

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

APRIL 12, 2023

ภาคผนวก ค-3

ใบรายงานผลการตรวจวัดความสั่นสะเทือน

ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 195/11-12 LAKE RAJADA OFFICE COMPLEX 2 TENTH-ELEVENTH FLOOR RATCHADAPHISEK ROAD KHLONG TOEI
KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 09 0160 7226 e-mail : mananyab@chememan.com
MEASURING PLACE : หน้าปากถ้ำค้างคาวทางทิศตะวันออก
MEASURING TYPE : AMBIENT (VIBRATION) **RECEIVED DATE** : MARCH 30 - APRIL 2, 2023
MEASURING DATE : MARCH 30 - APRIL 2, 2023 **ANALYTICAL DATE** : MARCH 30 - APRIL 2, 2023
MEASURING TIME : * **REPORT NO.** : 2022-U026837
MEASURING EQUIPMENT : VIBRATION METER ^{1/, 2/} **WORK NO.** : 2023-000549
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF980-0019-T23AF980-0021

TIME	RESULT								
	หน้าปากถ้ำค้างคาวทางทิศตะวันออก								
	TRANSVERSE						VERTICAL		
	X-AXIS			Y-AXIS			Z-AXIS		
	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)
MARCH 30, 2023 T23AF980-0019	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
MARCH 31, 2023 T23AF980-0019- T23AF980-0020	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
APRIL 1, 2023 T23AF980-0020- T23AF980-0021	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
APRIL 2, 2023 T23AF980-0021	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-

REMARK: * MEASURING FROM 07:00 HOUR ON MARCH 30, 2023 TO 07:00 HOUR ON APRIL 2, 2023

^{1/} TRIGGER SOURCE 0.200 mm/s

^{2/} NONEXISTENT ZC FREQUENCY

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)

LABORATORY SUPERVISOR

APRIL 12, 2023

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- REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 195/11-12 LAKE RAJADA OFFICE COMPLEX 2 TENTH-ELEVENTH FLOOR RATCHADAPHISEK ROAD KHLONG TOEI
KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 09 0160 7226 e-mail : mananyab@chememan.com
MEASURING PLACE : ขอบแปลงประทานบัตรด้านทิศใต้
MEASURING TYPE : AMBIENT (VIBRATION)
MEASURING DATE : MARCH 30 - APRIL 2, 2023
MEASURING TIME : *
MEASURING EQUIPMENT : VIBRATION METER ^{1/, 2/}
MEASURED BY : MR AUSADAWUT YONSIRI

RECEIVED DATE : MARCH 30 - APRIL 2, 2023
ANALYTICAL DATE : MARCH 30 - APRIL 2, 2023
REPORT NO. : 2022-U026834
WORK NO. : 2023-000549
ANALYSIS NO. : T23AF980-0010-T23AF980-0012

TIME	RESULT								
	ขอบแปลงประทานบัตรด้านทิศใต้								
	TRANSVERSE						VERTICAL		
	X-AXIS			Y-AXIS			Z-AXIS		
	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)
MARCH 30, 2023 T23AF980-0010	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
MARCH 31, 2023 T23AF980-0010- T23AF980-0011	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
APRIL 1, 2023 T23AF980-0011- T23AF980-0012	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
APRIL 2, 2023 T23AF980-0012	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-

REMARK: * MEASURING FROM 07:00 HOUR ON MARCH 30, 2023 TO 07:00 HOUR ON APRIL 2, 2023
^{1/} TRIGGER SOURCE 0.200 mm/s
^{2/} NONEXISTENT ZC FREQUENCY

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR
APRIL 12, 2023

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ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 195/11-12 LAKE RAJADA OFFICE COMPLEX 2 TENTH-ELEVENTH FLOOR RATCHADAPHISEK ROAD KHLONG TOEI
KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 09 0160 7226 e-mail : mananyab@chememan.com
MEASURING PLACE : สถานีวิจัยทับกวาง มหาวิทยาลัยเกษตรศาสตร์
MEASURING TYPE : AMBIENT (VIBRATION) **RECEIVED DATE** : MARCH 30 - APRIL 2, 2023
MEASURING DATE : MARCH 30 - APRIL 2, 2023 **ANALYTICAL DATE** : MARCH 30 - APRIL 2, 2023
MEASURING TIME : * **REPORT NO.** : 2022-U026835
MEASURING EQUIPMENT : VIBRATION METER ^{1/, 2/} **WORK NO.** : 2023-000549
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF980-0013-T23AF980-0015

TIME	RESULT								
	สถานีวิจัยทับกวาง มหาวิทยาลัยเกษตรศาสตร์								
	TRANSVERSE						VERTICAL		
	X-AXIS			Y-AXIS			Z-AXIS		
	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)
MARCH 30, 2023 T23AF980-0013	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
MARCH 31, 2023 T23AF980-0013- T23AF980-0014	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
APRIL 1, 2023 T23AF980-0014- T23AF980-0015	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
APRIL 2, 2023 T23AF980-0015	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-

REMARK: * MEASURING FROM 07:00 HOUR ON MARCH 30, 2023 TO 07:00 HOUR ON APRIL 2, 2023
^{1/} TRIGGER SOURCE 0.200 mm/s
^{2/} NONEXISTENT ZC FREQUENCY

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)

LABORATORY SUPERVISOR

APRIL 12, 2023

- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL.
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ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 195/11-12 LAKE RAJADA OFFICE COMPLEX 2 TENTH-ELEVENTH FLOOR RATCHADAPHISEK ROAD KHLONG TOEI
KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 09 0160 7226 e-mail : mananyab@chememan.com
MEASURING PLACE : ชุมชนบ้านเก่าพัฒนา
MEASURING TYPE : AMBIENT (VIBRATION) **RECEIVED DATE** : MARCH 30 - APRIL 2, 2023
MEASURING DATE : MARCH 30 - APRIL 2, 2023 **ANALYTICAL DATE** : MARCH 30 - APRIL 2, 2023
MEASURING TIME : * **REPORT NO.** : 2022-U026836
MEASURING EQUIPMENT : VIBRATION METER ^{1/, 2/} **WORK NO.** : 2023-000549
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF980-0016-T23AF980-0018

TIME	RESULT								
	ชุมชนบ้านเก่าพัฒนา								
	TRANSVERSE						VERTICAL		
	X-AXIS			Y-AXIS			Z-AXIS		
	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)	VELOCITY (mm/s)	FREQUENCY (Hz)	DISPLACEMENT (mm)
MARCH 30, 2023 T23AF980-0016	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
MARCH 31, 2023 T23AF980-0016- T23AF980-0017	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
APRIL 1, 2023 T23AF980-0017- T23AF980-0018	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-
APRIL 2, 2023 T23AF980-0018	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-	<0.200	NOT APPLICABLE ^{2/}	-

REMARK: * MEASURING FROM 07:00 HOUR ON MARCH 30, 2023 TO 07:00 HOUR ON APRIL 2, 2023
^{1/} TRIGGER SOURCE 0.200 mm/s
^{2/} NONEXISTENT ZC FREQUENCY

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR
APRIL 12, 2023

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ภาคผนวก ค-4

ใบรายงานผลการตรวจวัดความเร็วและทิศทางการไหล

ANALYSIS REPORT

CUSTOMER NAME : CHEMEMAN PUBLIC COMPANY LIMITED
ADDRESS : 195/11-12 LAKE RAJADA OFFICE COMPLEX 2 TENTH-ELEVENTH FLOOR RATCHADAPHISEK ROAD KHLONG TOEI KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 09 0160 7226 e-mail : mananyab@chememan.com
MEASURING PLACE : บริเวณหน้าสำนักงานโรงแรมแรมบ่อแก้ว
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : MARCH 30 - APRIL 2, 2023
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR AUSADAWUT YONSIRI

RECEIVED DATE : MARCH 30 - APRIL 2, 2023
ANALYTICAL DATE : MARCH 30 - APRIL 2, 2023
REPORT NO. : 2023-U026829
WORK NO. : 2023-000549
ANALYSIS NO. : T23AF979-0001 - T23AF979-0003

TIME *	RESULT (m/s)					
	บริเวณหน้าสำนักงานโรงแรมแรมบ่อแก้ว					
	MARCH 30-31, 2023 T23AF979-0001		MARCH 31 - APRIL 1, 2023 T23AF979-0002		APRIL 1-2, 2023 T23AF979-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	0.8	S	1.6	SSE	2.7	SE
08:00-09:00 HOUR	0.9	SSE	2.1	SSE	2.1	SE
09:00-10:00 HOUR	0.8	S	2.3	S	1.5	SE
10:00-11:00 HOUR	0.9	SSE	2.0	SE	1.8	SE
11:00-12:00 HOUR	0.9	SSE	2.9	SE	2.6	SSE
12:00-13:00 HOUR	0.8	SE	2.6	SE	2.5	SSE
13:00-14:00 HOUR	0.8	SSE	3.3	SSE	3.6	SSE
14:00-15:00 HOUR	1.2	SE	3.1	SSE	2.9	SW
15:00-16:00 HOUR	1.3	SSE	3.1	SE	3.7	S
16:00-17:00 HOUR	1.4	SSE	3.3	SSE	2.6	SSW
17:00-18:00 HOUR	1.7	SE	2.5	SSE	3.2	S
18:00-19:00 HOUR	1.8	SSE	2.2	S	2.4	SSW
19:00-20:00 HOUR	3.0	SSE	2.8	SSE	2.6	S
20:00-21:00 HOUR	2.9	SSE	2.9	SSE	2.5	SSE
21:00-22:00 HOUR	2.9	SE	2.8	SE	1.7	SSE
22:00-23:00 HOUR	2.7	SE	2.7	SE	2.5	SE
23:00-00:00 HOUR	1.7	SSE	3.2	SE	2.2	SE
00:00-01:00 HOUR	2.4	SSE	2.4	S	2.2	SSE
01:00-02:00 HOUR	2.3	SSE	3.0	S	2.3	SE
02:00-03:00 HOUR	1.6	S	2.8	S	1.8	SSE
03:00-04:00 HOUR	2.1	SSE	2.6	SSW	2.3	S
04:00-05:00 HOUR	1.6	SSE	3.4	S	1.9	S
05:00-06:00 HOUR	2.2	S	2.8	SSE	1.8	SSW
06:00-07:00 HOUR	1.7	S	2.2	SE	2.1	S



(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

APRIL 12, 2023

