

ภาคผนวก ง.1

ใบรับรองผลการตรวจวิเคราะห์
คุณภาพอากาศจากปล่องระบายอากาศ



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. REFERENCE NO. : 225004-CEMS-2510-0094
Branch 2 (BCC2)
SAMPLING BY : SECOT Co., Ltd. REGISTRATION NO. : 7-239
SAMPLING DATE : 08/10/2025 SAMPLING TIME : 09.30 a.m.-01.00 p.m.
RECEIVED DATE : 10/10/2025 ANALYTICAL DATE : 10-14/10/2025
REPORT DATE : 21/10/2025 OPERATOR : Mr. Song Hengchwankul (7-239-0-0016)
STACK LOCATION : HRS11 FUEL TYPE : Natural Gas
SOURCE DESCRIPTION : Combustion SAMPLE CONDITION : Normal

STACK DESCRIPTION

Height	: 40.0	m	Gas Velocity	: 15.8	m/s
Diameter	: 3.30	m	Flow Rate*	: 6,148	Ncu.m/min
Temperature	: 77.1	°C	Excess Oxygen	: 13.1	%

PARAMETER	UNITS	RESULTS*		STANDARDS ¹	REFERENCE METHODS
		13.1%O ₂	7%O ₂	7%O ₂	
Total Suspended Particulate	mg/Ncu.m.	1.78	3.18	60	US. EPA Method 5

Pornnapa Budthum
(Miss Pornnapa Budthum)

Analyst

REG.NO.7-239-0-0018

Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-0-0010

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. * At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ¹ Notification of the Ministry of Industry, B.E.2549 and the Ministry of Natural Resources and Environment, B.E.2549.



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STACK LOCATION : HRS11 FUEL TYPE : Natural Gas
SOURCE DESCRIPTION : Combustion SAMPLE CONDITION : Normal

STACK DESCRIPTION

Height	: 40.0	m	Gas Velocity	: 15.8	m/s
Diameter	: 3.30	m	Flow Rate*	: 6,148	Ncu.m/min
Temperature	: 77.1	°C	Excess Oxygen	: 13.1	%

PARAMETER	UNITS	RESULTS*		STANDARDS	REFERENCE METHODS
		13.1%O ₂	7%O ₂	7%O ₂	
Particulate matter less than 10 microns	mg/Ncu.m.	0.92	1.65	-	US. EPA Method 201A

Pornnapa Budthum
(Miss Pornnapa Budthum)

Analyst

Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)

Technical Management Team

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4. - Standard is not specified.

The Monitoring Result of Emission Concentration
HRSG 11
BANGKOK COGENERATION CO., LTD. (Branch 2)
October 8, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	13.23	13.14	8.88	8.81	15.78
2	13.23	13.13	9.03	8.96	16.03
3	13.24	13.14	9.43	9.37	16.78
Average	13.23	13.14	9.11	9.05	16.20

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	13.23	13.14	0.03	0.00	0.00
2	13.23	13.13	0.07	0.03	0.05
3	13.24	13.14	0.14	0.11	0.20
Average	13.23	13.14	0.08	0.05	0.08

Run Number	Oxygen content (%)		Carbonmonoxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	13.23	13.14	0.61	0.56	1.00
2	13.23	13.13	0.61	0.57	1.02
3	13.24	13.14	0.59	0.55	0.99
Average	13.23	13.14	0.60	0.56	1.00

BANGKOK COGENERATION CO., LTD. (Branch 2)
EMISSION TEST RESULT

Date: October 8, 2025
 Start time: 9:50 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: TELEDYNE 200 EM
 SO₂ instrument Model: TELEDYNE 100 EH
 CO instrument Model: API 300 A
 Fuel Type : Natural Gas

Run #: 1
 Location : HRSG 11
 Finish time : 10:10 AM
 Serial No.: 071023-47
 Serial No.: 438
 Serial No.: 186
 Serial No.: 1070
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)	CO (ppm)
9:50 AM	13.21	8.76	0.03	0.62
9:51 AM	13.34	8.69	0.03	0.62
9:52 AM	13.28	8.78	0.03	0.62
9:53 AM	13.25	8.73	0.03	0.62
9:54 AM	13.27	8.68	0.03	0.62
9:55 AM	13.23	8.85	0.03	0.62
9:56 AM	13.23	8.81	0.03	0.62
9:57 AM	13.22	8.75	0.03	0.62
9:58 AM	13.20	8.58	0.03	0.61
9:59 AM	13.21	8.37	0.03	0.61
10:00 AM	13.23	8.56	0.03	0.61
10:01 AM	13.23	9.23	0.03	0.61
10:02 AM	13.20	9.19	0.03	0.61
10:03 AM	13.21	9.03	0.03	0.61
10:04 AM	13.23	8.86	0.03	0.61
10:05 AM	13.23	8.93	0.03	0.61
10:06 AM	13.21	8.98	0.03	0.61
10:07 AM	13.22	8.89	0.03	0.56
10:08 AM	13.23	9.31	0.03	0.56
10:09 AM	13.22	9.39	0.03	0.61
10:10 AM	13.21	9.14	0.10	0.61
Average	13.23	8.88	0.03	0.61

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGKOK COGENERATION CO., LTD. (Branch 2) EMISSION TEST RESULT

Run # : 2
Date: October 8, 2025 **Location :** HRSG 11
Start time: 10:11 AM **Finish time :** 10:31 AM
O₂ instrument Model: AMI 70 **Serial No.:** 071023-47
NO_x instrument Model: TELEDYNE 200 EM **Serial No.:** 438
SO₂ instrument Model: TELEDYNE 100 EH **Serial No.:** 186
CO instrument Model: API 300 A **Serial No.:** 1070
Fuel Type : Natural Gas **Test Operator :** Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)	CO (ppm)
10:11 AM	13.23	9.15	0.11	0.65
10:12 AM	13.21	9.09	0.09	0.67
10:13 AM	13.22	8.90	0.09	0.66
10:14 AM	13.22	8.78	0.16	0.61
10:15 AM	13.22	8.90	0.19	0.61
10:16 AM	13.22	8.75	0.19	0.61
10:17 AM	13.23	8.81	0.14	0.61
10:18 AM	13.23	9.09	0.07	0.61
10:19 AM	13.23	9.52	0.04	0.61
10:20 AM	13.22	9.66	0.03	0.61
10:21 AM	13.22	8.98	0.03	0.61
10:22 AM	13.23	8.65	0.01	0.62
10:23 AM	13.24	8.79	0.01	0.62
10:24 AM	13.24	8.91	0.01	0.62
10:25 AM	13.24	9.05	0.01	0.62
10:26 AM	13.23	9.27	0.01	0.62
10:27 AM	13.25	9.35	0.02	0.62
10:28 AM	13.25	9.42	0.02	0.62
10:29 AM	13.23	9.11	0.04	0.56
10:30 AM	13.23	8.81	0.05	0.56
10:31 AM	13.23	8.66	0.06	0.56
Average	13.23	9.03	0.07	0.61

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist

BANGKOK COGENERATION CO., LTD. (Branch 2) EMISSION TEST RESULT

Run # : 3
Date: October 8, 2025 **Location :** HRSG 11
Start time: 10:32 AM **Finish time :** 10:52 AM
O₂ instrument Model: AMI 70 **Serial No.:** 071023-47
NO_x instrument Model: TELEDYNE 200 EM **Serial No.:** 438
SO₂ instrument Model: TELEDYNE 100 EH **Serial No.:** 186
CO instrument Model: API 300 A **Serial No.:** 1070
Fuel Type : Natural Gas **Test Operator :** Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)	CO (ppm)
10:32 AM	13.23	8.91	0.08	0.56
10:33 AM	13.23	9.00	0.08	0.56
10:34 AM	13.23	9.22	0.08	0.56
10:35 AM	13.23	9.26	0.10	0.57
10:36 AM	13.23	8.90	0.10	0.57
10:37 AM	13.23	9.39	0.10	0.61
10:38 AM	13.22	8.93	0.11	0.61
10:39 AM	13.24	9.19	0.13	0.56
10:40 AM	13.23	9.83	0.14	0.56
10:41 AM	13.23	9.72	0.18	0.56
10:42 AM	13.23	9.79	0.19	0.58
10:43 AM	13.23	9.75	0.19	0.62
10:44 AM	13.25	9.73	0.18	0.62
10:45 AM	13.23	9.85	0.17	0.62
10:46 AM	13.24	9.72	0.17	0.61
10:47 AM	13.26	9.56	0.15	0.61
10:48 AM	13.26	9.58	0.13	0.60
10:49 AM	13.26	9.60	0.13	0.56
10:50 AM	13.27	9.68	0.12	0.57
10:51 AM	13.23	9.33	0.16	0.61
10:52 AM	13.25	9.05	0.16	0.61
Average	13.24	9.43	0.14	0.59

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist



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	Branch 2 (BCC2)		
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION NO.	: 2-239
SAMPLING DATE	: 09/10/2025	SAMPLING TIME	: 09.30 a.m.-01.00 p.m.
RECEIVED DATE	: 10/10/2025	ANALYTICAL DATE	: 10-14/10/2025
REPORT DATE	: 21/10/2025	OPERATOR	: Mr. Song Hengchwankul (2-239-0-0016)
STACK LOCATION	: HRSG 12	FUEL TYPE	: Natural Gas
SOURCE DESCRIPTION	: Combustion	SAMPLE CONDITION	: Normal

STACK DESCRIPTION

Height	: 40.0	m	Gas Velocity	: 16.0	m/s
Diameter	: 3.30	m	Flow Rate*	: 6,178	Ncu.m/min
Temperature	: 79.6	°C	Excess Oxygen	: 13.3	%

PARAMETER	UNITS	RESULTS*		STANDARDS ^{1/}	REFERENCE
		13.3%O ₂	7%O ₂	7%O ₂	
					METHODS
Total Suspended Particulate	mg/Ncu.m.	2.22	4.04	60	US. EPA Method 5

Bongke Puthum

(Miss Pornnapa Budthum)

Analyst

REG.NO.2-239-0-0018

Naris Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.2-239-0-0010

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4. ^{1/} Notification of the Ministry of Industry, B.E.2549 and the Ministry of Natural Resources and Environment, B.E.2549.



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REPORT DATE	: 21/10/2025	OPERATOR	: Mr. Song Hengchwankul (2-239-0-0016)
STACK LOCATION	: HRSG 12	FUEL TYPE	: Natural Gas
SOURCE DESCRIPTION	: Combustion	SAMPLE CONDITION	: Normal

STACK DESCRIPTION

Height	: 40.0	m	Gas Velocity	: 16.0	m/s
Diameter	: 3.30	m	Flow Rate*	: 6,178	Ncu.m/min
Temperature	: 79.6	°C	Excess Oxygen	: 13.3	%

PARAMETER	UNITS	RESULTS*		STANDARDS	REFERENCE
		13.3%O ₂	7%O ₂	7%O ₂	
					METHODS
Particulate matter	mg/Ncu.m.	0.93	1.69	-	US. EPA Method 201A
less than 10 microns					

Bongke Puthum

(Miss Pornnapa Budthum)

Analyst

Naris Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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The Monitoring Result of Emission Concentration
HRSG 12
BANGKOK COGENERATION CO., LTD. (Branch 2)
October 9, 2025

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	13.31	13.25	9.33	9.26	16.83
2	13.29	13.25	9.55	9.49	17.24
3	13.33	13.30	9.54	9.49	17.36
Average	13.31	13.27	9.47	9.41	17.14

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	13.31	13.25	1.03	1.01	1.84
2	13.29	13.25	1.08	1.05	1.91
3	13.33	13.30	1.12	1.09	1.99
Average	13.31	13.27	1.08	1.05	1.91

Run Number	Oxygen content (%)		Carbonmonoxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	13.31	13.25	1.05	1.01	1.84
2	13.29	13.25	0.98	0.94	1.71
3	13.33	13.30	0.91	0.87	1.59
Average	13.31	13.27	0.98	0.94	1.71

BANGKOK COGENERATION CO., LTD. (Branch 2)
EMISSION TEST RESULT

Run # : 1
Date: October 9, 2025
Location : HRSG 12
Start time: 9:30 AM
Finish time: 9:50 AM
O₂ instrument Model: AMI 70
Serial No.: 071023-47
NO_x instrument Model: TELEDYNE 200 EM
Serial No.: 435
SO₂ instrument Model: TELEDYNE 100 EH
Serial No.: 186
CO instrument Model: API 300 A
Serial No.: 1070
Fuel Type : Natural Gas
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)	CO (ppm)
9:30 AM	13.39	9.49	1.02	1.06
9:31 AM	13.40	9.38	1.10	1.06
9:32 AM	13.34	9.49	1.18	1.06
9:33 AM	13.39	9.59	1.22	1.06
9:34 AM	13.34	9.60	1.15	1.06
9:35 AM	13.34	9.51	1.01	1.06
9:36 AM	13.34	9.39	1.05	1.00
9:37 AM	13.33	9.26	0.96	1.00
9:38 AM	13.33	9.31	0.99	1.00
9:39 AM	13.31	9.39	1.02	1.00
9:40 AM	13.31	9.37	0.98	1.06
9:41 AM	13.30	9.32	1.06	1.06
9:42 AM	13.27	9.23	0.98	1.06
9:43 AM	13.27	9.25	1.01	1.04
9:44 AM	13.26	9.29	1.03	1.04
9:45 AM	13.29	9.23	0.98	1.06
9:46 AM	13.29	9.17	1.01	1.06
9:47 AM	13.29	9.15	0.97	1.06
9:48 AM	13.24	9.14	1.02	1.04
9:49 AM	13.24	9.17	0.99	1.06
9:50 AM	13.24	9.21	0.98	1.06
Average	13.31	9.33	1.03	1.05

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGKOK COGENERATION CO., LTD. (Branch 2)

EMISSION TEST RESULT

Run # : 2

Date: October 9, 2025

Location : HRSG 12

Start time: 9:51 AM

Finish time : 10:11 AM

O₂ instrument Model: AMI 70

Serial No.: 071023-47

NO_x instrument Model: TELEDYNE 200 EM

Serial No.: 435

SO₂ instrument Model: TELEDYNE 100 EH

Serial No.: 186

CO instrument Model: API 300 A

Serial No.: 1070

Fuel Type : Natural Gas

Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)	CO (ppm)
9:51 AM	13.24	9.18	1.05	1.06
9:52 AM	13.28	9.22	0.98	1.06
9:53 AM	13.27	9.31	1.00	1.06
9:54 AM	13.25	9.36	0.97	1.01
9:55 AM	13.25	9.44	1.07	1.00
9:56 AM	13.28	9.55	1.15	1.00
9:57 AM	13.29	9.71	1.07	1.00
9:58 AM	13.26	9.69	1.02	1.00
9:59 AM	13.28	9.43	1.05	1.00
10:00 AM	13.29	9.35	1.07	1.00
10:01 AM	13.29	9.46	1.11	1.00
10:02 AM	13.27	9.52	1.16	0.96
10:03 AM	13.31	9.55	1.23	0.94
10:04 AM	13.29	9.64	1.02	0.94
10:05 AM	13.30	9.71	0.96	0.94
10:06 AM	13.31	9.74	1.08	0.94
10:07 AM	13.31	9.74	1.03	0.94
10:08 AM	13.32	9.73	0.96	0.98
10:09 AM	13.32	9.76	1.10	0.94
10:10 AM	13.33	9.72	1.33	0.94
10:11 AM	13.31	9.74	1.21	0.94
Average	13.29	9.55	1.08	0.98

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGKOK COGENERATION CO., LTD. (Branch 2)

EMISSION TEST RESULT

Run # : 3

Date: October 9, 2025

Location : HRSG 12

Start time: 10:12 AM

Finish time : 10:32 AM

O₂ instrument Model: AMI 70

Serial No.: 071023-47

NO_x instrument Model: TELEDYNE 200 EM

Serial No.: 435

SO₂ instrument Model: TELEDYNE 100 EH

Serial No.: 186

CO instrument Model: API 300 A

Serial No.: 1070

Fuel Type : Natural Gas

Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)	CO (ppm)
10:12 AM	13.31	9.75	1.07	0.94
10:13 AM	13.31	9.67	1.10	0.94
10:14 AM	13.31	9.66	1.24	0.94
10:15 AM	13.33	9.66	1.17	0.94
10:16 AM	13.33	9.67	1.00	0.94
10:17 AM	13.33	9.71	1.07	0.94
10:18 AM	13.34	9.68	1.23	0.94
10:19 AM	13.34	9.61	1.19	0.94
10:20 AM	13.33	9.53	1.12	0.94
10:21 AM	13.33	9.40	0.97	0.94
10:22 AM	13.34	9.31	0.97	0.88
10:23 AM	13.34	9.30	0.98	0.88
10:24 AM	13.34	9.45	1.12	0.88
10:25 AM	13.33	9.48	1.27	0.88
10:26 AM	13.33	9.36	1.13	0.88
10:27 AM	13.34	9.33	1.06	0.88
10:28 AM	13.34	9.45	1.08	0.89
10:29 AM	13.34	9.61	1.12	0.92
10:30 AM	13.34	9.64	1.13	0.94
10:31 AM	13.34	9.58	1.18	0.90
10:32 AM	13.34	9.50	1.22	0.88
Average	13.33	9.54	1.12	0.91

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

ภาคผนวก ง.2

ใบรับรองผลการตรวจวิเคราะห์
คุณภาพอากาศในบรรยากาศทั่วไป



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. REFERENCE NO. : 225004-Amb-2510-0095
(BCC2) SAMPLING DATE : 03-10/10/2025
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 22-27/10/2025
RECEIVED DATE : 18/10/2025 SAMPLE CONDITION : Normal
REPORT DATE : 30/10/2025 SITE OPERATOR : Mr. Sittichai Sawangwongchai

LOCATION DESCRIPTION : 1. Wat Map Chalute
2. Wat Sophon Wanaram
3. Ban Plong Community
4. Wat Nong Feab

PARAMETER	SAMPLING DATE	UNITS	RESULTS				STANDARD*	REFERENCE METHODS
			1	2	3	4		
TSP (24 hr)	03-04/10/2025	mg/m ³	0.038	0.021	0.030	0.057	0.330	High Volume Air
	04-05/10/2025	mg/m ³	0.027	0.018	0.023	0.019		Sampler/Gravimetric
	05-06/10/2025	mg/m ³	0.016	0.018	0.020	0.018		Method
	06-07/10/2025	mg/m ³	0.018	0.018	0.019	0.023		
	07-08/10/2025	mg/m ³	0.018	0.021	0.027	0.022		
	08-09/10/2025	mg/m ³	0.019	0.019	0.021	0.021		
	09-10/10/2025	mg/m ³	0.026	0.031	0.041	0.056		

Boonpa Puthum

(Miss Pornnapa Budthum)

Analyst

Main Pawanapetch

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. * Notification of National Environment Board, No.24, B.E.2547 (2004).



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LOCATION DESCRIPTION : 1. Wat Map Chalute
2. Wat Sophon Wanaram
3. Ban Plong Community
4. Wat Nong Feab

PARAMETER	SAMPLING DATE	UNITS	RESULTS				STANDARD*	REFERENCE METHODS
			1	2	3	4		
PM-10 (24 hr)	03-04/10/2025	mg/m ³	0.020	0.014	0.015	0.021	0.120	High Volume Air Sampler
	04-05/10/2025	mg/m ³	0.015	0.016	0.014	0.014		(Hi-Vol PM-10 Size
	05-06/10/2025	mg/m ³	0.014	0.015	0.011	0.008		Selective Inlet)/
	06-07/10/2025	mg/m ³	0.016	0.014	0.012	0.007		Gravimetric Method
	07-08/10/2025	mg/m ³	0.016	0.016	0.014	0.007		
	08-09/10/2025	mg/m ³	0.015	0.016	0.009	0.010		
	09-10/10/2025	mg/m ³	0.023	0.024	0.032	0.023		

Boonpa Puthum

(Miss Pornnapa Budthum)

Analyst

Main Pawanapetch

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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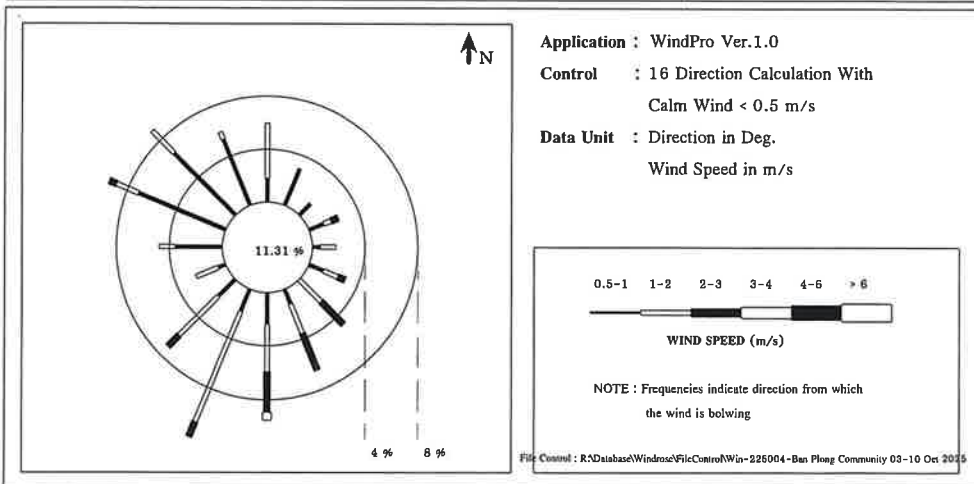
3. * Notification of National Environment Board, No.24, B.E.2547 (2004).



Meteorological Monitoring Results : Wind Rose MTR-BCC2

Location : Ban Plong Community Monitor period : 03-10 Oct 2025
 Wind Speed Model : Scarlet WS-21 Serial No : AD:06
 Wind Direction Model : Scarlet WS-21 Serial No : AD:06

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0179	0.0417	0.0000	0.0000	0.0000	0.0000	0.0595
NNE	0.0298	0.0000	0.0000	0.0000	0.0000	0.0000	0.0298
NE	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
ENE	0.0119	0.0060	0.0060	0.0000	0.0000	0.0000	0.0238
E	0.0060	0.0119	0.0000	0.0000	0.0000	0.0000	0.0179
ESE	0.0119	0.0119	0.0060	0.0000	0.0000	0.0000	0.0298
SE	0.0000	0.0238	0.0238	0.0000	0.0000	0.0000	0.0476
SSE	0.0119	0.0238	0.0298	0.0000	0.0000	0.0000	0.0655
S	0.0238	0.0357	0.0298	0.0060	0.0000	0.0000	0.0952
SSW	0.0179	0.0893	0.0119	0.0000	0.0000	0.0000	0.1190
SW	0.0179	0.0417	0.0119	0.0000	0.0000	0.0000	0.0714
WSW	0.0060	0.0179	0.0000	0.0000	0.0000	0.0000	0.0238
W	0.0357	0.0119	0.0000	0.0000	0.0000	0.0000	0.0476
WNW	0.0714	0.0179	0.0060	0.0000	0.0000	0.0000	0.0952
NW	0.0655	0.0238	0.0000	0.0000	0.0000	0.0000	0.0893
NNW	0.0536	0.0060	0.0000	0.0000	0.0000	0.0000	0.0595
CALM	0.1131						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

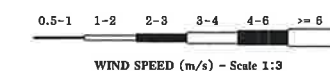
Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BCC2

Location : Ban Plong Community Monitor period : 03-10 Oct 2025
 Wind Speed Model : Scarlet WS-21 Serial No : AD:06
 Wind Direction Model : Scarlet WS-21 Serial No : AD:06

Time	03-04 Oct 2025		04-05 Oct 2025		05-06 Oct 2025		06-07 Oct 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	1.0	ENE	0.9	SW	2.4	S	1.7	SSW
11:00 - 12:00	2.3	SW	1.1	N	0.8	W	1.9	SSW
12:00 - 13:00	2.2	WNW	1.3	S	1.2	E	2.6	S
13:00 - 14:00	1.4	N	1.3	SSE	1.8	SE	2.3	S
14:00 - 15:00	0.7	NW	1.6	S	2.1	SSE	1.3	SSW
15:00 - 16:00	1.2	SSW	2.3	S	2.2	ESE	1.4	SSW
16:00 - 17:00	0.9	W	2.4	SSW	1.7	SE	1.2	SSW
17:00 - 18:00	0.5	NW	1.3	SSW	1.4	ESE	0.9	S
18:00 - 19:00	0.9	ENE	0.9	SSW	1.1	E	0.7	SSE
19:00 - 20:00	0.8	NNE	0.8	NNE	0.8	ENE	1.1	SSW
20:00 - 21:00	2.7	ENE	0.3	WNW	1.6	SE	1.3	S
21:00 - 22:00	0.5	NNW	0.4	NW	2.1	SE	2.0	SE
22:00 - 23:00	0.8	E	0.6	NNE	1.7	SE	2.6	SE
23:00 - 24:00	1.2	SSE	0.6	NNE	2.6	SSE	2.8	SE
00:00 - 01:00	1.1	S	0.4	NNW	1.2	SSE	2.1	SW
01:00 - 02:00	1.1	SSW	0.5	NW	2.7	SSE	0.8	WNW
02:00 - 03:00	0.6	NE	0.6	N	1.8	SW	0.8	WNW
03:00 - 04:00	0.3	NW	0.7	NW	1.3	N	0.6	WNW
04:00 - 05:00	0.4	NNW	0.6	NNW	1.0	N	1.0	WNW
05:00 - 06:00	0.9	NW	0.7	NNW	0.9	NNW	0.6	WNW
06:00 - 07:00	0.9	WSW	1.2	NNW	1.0	N	0.8	NW
07:00 - 08:00	2.4	SSW	2.6	SSE	0.9	NNW	0.6	W
08:00 - 09:00	0.9	ESE	2.9	S	0.8	NNE	1.0	S
09:00 - 10:00	1.0	ESE	3.6	S	1.2	S	1.1	SW



File Control : R:\Database\Windrose\FileControl\Win-225004-Ban Plong Community 03-10 Oct 2025

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose

MTR-BCC2

Location : Ban Plong Community Monitor period : 03-10 Oct 2025
 Wind Speed Model : Scarlet WS-21 Serial No : AD:06
 Wind Direction Model : Scarlet WS-21 Serial No : AD:06

Time	07-08 Oct 2025		08-09 Oct 2025		09-10 Oct 2025		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
10:00 - 11:00	1.0	SW	1.3	WSW	0.9	S	
11:00 - 12:00	1.3	SSW	1.6	SW	1.0	SW	
12:00 - 13:00	1.4	SSW	1.4	WSW	1.5	WSW	
13:00 - 14:00	1.6	SSW	1.8	W	2.3	SSE	
14:00 - 15:00	1.4	SSW	1.6	SW	1.4	SSW	
15:00 - 16:00	0.9	SSW	0.9	SW	1.1	SSW	
16:00 - 17:00	0.9	ESE	0.8	SSW	0.6	SW	
17:00 - 18:00	0.6	S	0.8	S	0.3	WSW	
18:00 - 19:00	0.8	SSE	0.9	NNW	0.1	WSW	
19:00 - 20:00	0.8	NE	0.6	NW	0.2	WSW	
20:00 - 21:00	1.0	SSE	0.8	N	0.1	WNW	
21:00 - 22:00	1.2	W	0.8	WNW	0.2	W	
22:00 - 23:00	0.8	WNW	0.8	NW	0.1	W	
23:00 - 24:00	0.7	W	0.5	W	0.3	WNW	
00:00 - 01:00	0.8	NNW	0.6	NNW	0.1	NW	
01:00 - 02:00	0.3	W	0.6	NW	0.3	WNW	
02:00 - 03:00	0.6	WNW	0.5	NW	0.1	WNW	
03:00 - 04:00	0.7	WNW	0.6	WNW	0.1	W	
04:00 - 05:00	0.5	WNW	0.9	WNW	0.2	WNW	
05:00 - 06:00	0.1	WNW	0.6	W	0.5	WNW	
06:00 - 07:00	0.6	NW	0.6	NNW	0.6	N	
07:00 - 08:00	1.1	WNW	1.4	N	1.3	NW	
08:00 - 09:00	1.1	WNW	1.8	NW	1.9	NW	
09:00 - 10:00	1.2	SW	1.7	NW	1.8	N	
Wind Rose							



File Control : R:\Database\Windrose\FileControl\Win-225004-Ban Plong Community 03-10 Oct 2025

(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

(Miss Preeda Somjai)
 Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide

MTR-BCC2

Location : Wat Map Chalae Monitor Period : 03-10 Oct 2025
 Analyzer Model : API 200A Station No : Shelter 19
 Serial No : 1505 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Teledyne 700E Serial No : 587
 Calibration Gas Cylinder I.D.: EB0102326
 Certified Date : 08 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
 Expire Date : 07 Jan 2026

Time	NO2 Concentration (ppm)						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
10:00 - 11:00	0.0105	0.0111	0.0056	0.0104	0.0070	0.0105	0.0102
11:00 - 12:00	0.0029	0.0033	0.0100	0.0115	0.0051	0.0045	0.0096
12:00 - 13:00	0.0104	0.0085	0.0108	0.0097	0.0041	0.0067	0.0078
13:00 - 14:00	0.0081	0.0089	0.0069	0.0078	0.0047	0.0114	0.0117
14:00 - 15:00	0.0034	0.0082	0.0102	0.0060	0.0107	0.0103	0.0037
15:00 - 16:00	0.0039	0.0044	0.0056	0.0093	0.0078	0.0058	0.0069
16:00 - 17:00	0.0069	0.0070	0.0100	0.0108	0.0085	0.0087	0.0034
17:00 - 18:00	0.0082	0.0033	0.0118	0.0065	0.0050	0.0093	0.0029
18:00 - 19:00	0.0100	0.0113	0.0078	0.0103	0.0076	0.0126	0.0037
19:00 - 20:00	0.0059	0.0083	0.0105	0.0110	0.0094	0.0057	0.0073
20:00 - 21:00	0.0057	0.0114	0.0099	0.0087	0.0070	0.0048	0.0074
21:00 - 22:00	0.0076	0.0078	0.0036	0.0104	0.0058	0.0090	0.0112
22:00 - 23:00	0.0058	0.0069	0.0114	0.0048	0.0089	0.0042	0.0118
23:00 - 00:00	0.0043	0.0111	0.0045	0.0087	0.0081	0.0046	0.0115
00:00 - 01:00	0.0035	0.0068	0.0108	0.0123	0.0119	0.0081	0.0101
01:00 - 02:00	0.0068	0.0056	0.0062	0.0036	0.0070	0.0087	0.0042
02:00 - 03:00	0.0116	0.0094	0.0104	0.0106	0.0035	0.0122	0.0030
03:00 - 04:00	0.0034	0.0082	0.0026	0.0069	0.0100	0.0055	0.0109
04:00 - 05:00	0.0054	0.0103	0.0046	0.0056	0.0041	0.0125	0.0082
05:00 - 06:00	0.0085	0.0066	0.0088	0.0100	0.0089	0.0048	0.0027
06:00 - 07:00	0.0072	0.0026	0.0104	0.0094	0.0099	0.0112	0.0046
07:00 - 08:00	0.0109	0.0075	0.0039	0.0115	0.0108	0.0126	0.0068
08:00 - 09:00	0.0036	0.0128	0.0069	0.0042	0.0035	0.0106	0.0124
09:00 - 10:00	0.0048	0.0038	0.0064	0.0113	0.0043	0.0093	0.0071
Average-24Hr*	0.0066	0.0077	0.0079	0.0088	0.0088	0.0085	0.0075
Max-1Hr	0.0116	0.0128	0.0118	0.0123	0.0119	0.0126	0.0124
Min-1Hr	0.0029	0.0026	0.0026	0.0036	0.0034	0.0042	0.0027
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr							

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

(Miss Preeda Somjai)
 Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-BCC2

Location : Wat Sophon Wanaram Monitor Period : 03-10 Oct 2025
Analyzer Model : API 200A Station No : Shelter 13
Serial No : 2384 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 08 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 07 Jan 2026

Time	NO2 Concentration (ppm)						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
09:00 - 10:00	0.0084	0.0050	0.0016	0.0029	0.0093	0.0035	0.0111
10:00 - 11:00	0.0005	0.0035	0.0030	0.0038	0.0079	0.0073	0.0073
11:00 - 12:00	0.0102	0.0047	0.0084	0.0032	0.0013	0.0072	0.0049
12:00 - 13:00	0.0069	0.0070	0.0028	0.0041	0.0037	0.0088	0.0072
13:00 - 14:00	0.0045	0.0004	0.0050	0.0096	0.0015	0.0036	0.0020
14:00 - 15:00	0.0095	0.0028	0.0053	0.0027	0.0011	0.0106	0.0034
15:00 - 16:00	0.0055	0.0083	0.0081	0.0094	0.0005	0.0056	0.0097
16:00 - 17:00	0.0060	0.0056	0.0054	0.0053	0.0055	0.0095	0.0006
17:00 - 18:00	0.0094	0.0099	0.0023	0.0041	0.0037	0.0069	0.0008
18:00 - 19:00	0.0049	0.0028	0.0057	0.0085	0.0095	0.0106	0.0061
19:00 - 20:00	0.0078	0.0008	0.0055	0.0016	0.0062	0.0075	0.0074
20:00 - 21:00	0.0023	0.0033	0.0038	0.0096	0.0012	0.0054	0.0051
21:00 - 22:00	0.0068	0.0040	0.0088	0.0107	0.0053	0.0068	0.0018
22:00 - 23:00	0.0006	0.0072	0.0088	0.0115	0.0069	0.0041	0.0053
23:00 - 00:00	0.0066	0.0093	0.0077	0.0094	0.0027	0.0098	0.0020
00:00 - 01:00	0.0015	0.0050	0.0088	0.0087	0.0057	0.0069	0.0090
01:00 - 02:00	0.0047	0.0083	0.0033	0.0095	0.0007	0.0021	0.0046
02:00 - 03:00	0.0054	0.0048	0.0057	0.0098	0.0023	0.0073	0.0017
03:00 - 04:00	0.0047	0.0066	0.0015	0.0049	0.0083	0.0036	0.0085
04:00 - 05:00	0.0005	0.0030	0.0031	0.0074	0.0067	0.0084	0.0098
05:00 - 06:00	0.0073	0.0097	0.0079	0.0028	0.0009	0.0034	0.0013
06:00 - 07:00	0.0006	0.0080	0.0088	0.0034	0.0057	0.0003	0.0086
07:00 - 08:00	0.0088	0.0098	0.0103	0.0025	0.0079	0.0103	0.0040
08:00 - 09:00	0.0028	0.0072	0.0037	0.0034	0.0096	0.0091	0.0038

Average-24Hr*	0.0053	0.0057	0.0056	0.0062	0.0048	0.0066	0.0053
Max-1Hr	0.0102	0.0099	0.0103	0.0115	0.0096	0.0106	0.0111
Min-1Hr	0.0005	0.0004	0.0015	0.0016	0.0005	0.0003	0.0006

Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-BCC2

Location : Ban Plong Community Monitor Period : 03-10 Oct 2025
Analyzer Model : API 200A Station No : Shelter 15
Serial No : 2386 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 08 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 07 Jan 2026

Time	NO2 Concentration (ppm)						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
10:00 - 11:00	0.0048	0.0134	0.0072	0.0050	0.0031	0.0042	0.0065
11:00 - 12:00	0.0067	0.0129	0.0109	0.0031	0.0032	0.0102	0.0095
12:00 - 13:00	0.0085	0.0116	0.0066	0.0092	0.0113	0.0117	0.0058
13:00 - 14:00	0.0057	0.0081	0.0029	0.0090	0.0067	0.0037	0.0104
14:00 - 15:00	0.0129	0.0032	0.0108	0.0105	0.0136	0.0083	0.0072
15:00 - 16:00	0.0049	0.0129	0.0041	0.0090	0.0039	0.0085	0.0056
16:00 - 17:00	0.0096	0.0139	0.0089	0.0078	0.0103	0.0023	0.0037
17:00 - 18:00	0.0098	0.0041	0.0042	0.0125	0.0016	0.0112	0.0032
18:00 - 19:00	0.0065	0.0084	0.0124	0.0090	0.0029	0.0079	0.0076
19:00 - 20:00	0.0053	0.0113	0.0116	0.0055	0.0110	0.0049	0.0107
20:00 - 21:00	0.0114	0.0063	0.0065	0.0123	0.0018	0.0134	0.0064
21:00 - 22:00	0.0138	0.0057	0.0069	0.0124	0.0093	0.0106	0.0097
22:00 - 23:00	0.0121	0.0079	0.0037	0.0127	0.0044	0.0071	0.0072
23:00 - 00:00	0.0077	0.0067	0.0089	0.0073	0.0056	0.0117	0.0114
00:00 - 01:00	0.0109	0.0045	0.0058	0.0051	0.0064	0.0130	0.0083
01:00 - 02:00	0.0064	0.0106	0.0107	0.0096	0.0061	0.0065	0.0068
02:00 - 03:00	0.0106	0.0065	0.0131	0.0040	0.0087	0.0130	0.0068
03:00 - 04:00	0.0064	0.0110	0.0087	0.0032	0.0118	0.0035	0.0079
04:00 - 05:00	0.0094	0.0086	0.0110	0.0123	0.0093	0.0070	0.0048
05:00 - 06:00	0.0042	0.0088	0.0058	0.0108	0.0064	0.0053	0.0120
06:00 - 07:00	0.0044	0.0063	0.0086	0.0055	0.0036	0.0057	0.0036
07:00 - 08:00	0.0113	0.0094	0.0044	0.0114	0.0085	0.0079	0.0103
08:00 - 09:00	0.0071	0.0071	0.0031	0.0098	0.0022	0.0068	0.0034
09:00 - 10:00	0.0110	0.0043	0.0059	0.0084	0.0047	0.0086	0.0023

Average-24Hr*	0.0084	0.0085	0.0076	0.0086	0.0065	0.0060	0.0071
Max-1Hr	0.0138	0.0139	0.0131	0.0127	0.0136	0.0134	0.0120
Min-1Hr	0.0042	0.0032	0.0029	0.0031	0.0016	0.0023	0.0023

Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-BCC2

Location : Wat Nong Feab Monitor Period : 03-10 Oct 2025
Analyzer Model : API 200A Station No : Shelter 14
Serial No : 2385 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 08 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 07 Jan 2026

Time	NO2 Concentration (ppm)						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
11:00 - 12:00	0.0024	0.0023	0.0102	0.0109	0.0066	0.0028	0.0065
12:00 - 13:00	0.0066	0.0107	0.0050	0.0094	0.0045	0.0096	0.0082
13:00 - 14:00	0.0045	0.0096	0.0052	0.0092	0.0043	0.0053	0.0080
14:00 - 15:00	0.0023	0.0054	0.0101	0.0104	0.0048	0.0103	0.0043
15:00 - 16:00	0.0058	0.0068	0.0055	0.0103	0.0060	0.0090	0.0042
16:00 - 17:00	0.0099	0.0056	0.0088	0.0049	0.0043	0.0050	0.0037
17:00 - 18:00	0.0030	0.0088	0.0033	0.0092	0.0103	0.0043	0.0080
18:00 - 19:00	0.0045	0.0077	0.0090	0.0110	0.0058	0.0098	0.0100
19:00 - 20:00	0.0074	0.0105	0.0033	0.0052	0.0108	0.0084	0.0077
20:00 - 21:00	0.0040	0.0078	0.0075	0.0078	0.0057	0.0115	0.0058
21:00 - 22:00	0.0030	0.0084	0.0023	0.0065	0.0090	0.0051	0.0100
22:00 - 23:00	0.0033	0.0075	0.0105	0.0059	0.0100	0.0096	0.0100
23:00 - 00:00	0.0110	0.0066	0.0107	0.0073	0.0050	0.0056	0.0070
00:00 - 01:00	0.0041	0.0033	0.0043	0.0036	0.0027	0.0043	0.0101
01:00 - 02:00	0.0035	0.0023	0.0072	0.0064	0.0049	0.0100	0.0067
02:00 - 03:00	0.0056	0.0103	0.0082	0.0085	0.0098	0.0044	0.0092
03:00 - 04:00	0.0091	0.0067	0.0095	0.0044	0.0041	0.0034	0.0066
04:00 - 05:00	0.0069	0.0052	0.0085	0.0047	0.0020	0.0075	0.0089
05:00 - 06:00	0.0052	0.0091	0.0040	0.0053	0.0065	0.0070	0.0072
06:00 - 07:00	0.0079	0.0108	0.0084	0.0085	0.0062	0.0079	0.0034
07:00 - 08:00	0.0081	0.0052	0.0083	0.0093	0.0043	0.0032	0.0075
08:00 - 09:00	0.0096	0.0054	0.0056	0.0089	0.0035	0.0067	0.0043
09:00 - 10:00	0.0082	0.0104	0.0108	0.0059	0.0060	0.0071	0.0082
10:00 - 11:00	0.0072	0.0080	0.0101	0.0066	0.0071	0.0105	0.0075
Average-24Hr*	0.0060	0.0073	0.0073	0.0075	0.0060	0.0070	0.0072
Max-1Hr	0.0110	0.0108	0.0108	0.0110	0.0108	0.0115	0.0101
Min-1Hr	0.0023	0.0023	0.0023	0.0036	0.0020	0.0028	0.0034
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr							

Remark : * Average time between 11:00-11:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-BCC2

Location : Wat Map Chaluc Monitor Period : 03-10 Oct 2025
Analyzer Model : Teledyne T100 Station No : Shelter 19
Serial No : 119 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 10 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 09 Jan 2026

Time	SO2 Concentration (ppm)						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
10:00 - 11:00	0.0025	0.0024	0.0044	0.0045	0.0035	0.0027	0.0025
11:00 - 12:00	0.0046	0.0045	0.0025	0.0039	0.0047	0.0036	0.0024
12:00 - 13:00	0.0038	0.0026	0.0025	0.0033	0.0035	0.0032	0.0032
13:00 - 14:00	0.0032	0.0046	0.0026	0.0032	0.0036	0.0024	0.0038
14:00 - 15:00	0.0028	0.0044	0.0035	0.0047	0.0026	0.0041	0.0034
15:00 - 16:00	0.0034	0.0046	0.0029	0.0042	0.0035	0.0047	0.0042
16:00 - 17:00	0.0028	0.0035	0.0027	0.0033	0.0036	0.0032	0.0039
17:00 - 18:00	0.0030	0.0040	0.0043	0.0026	0.0035	0.0024	0.0040
18:00 - 19:00	0.0047	0.0047	0.0034	0.0032	0.0044	0.0038	0.0030
19:00 - 20:00	0.0038	0.0040	0.0045	0.0044	0.0043	0.0046	0.0033
20:00 - 21:00	0.0042	0.0046	0.0046	0.0039	0.0033	0.0033	0.0043
21:00 - 22:00	0.0025	0.0042	0.0031	0.0033	0.0044	0.0026	0.0031
22:00 - 23:00	0.0044	0.0031	0.0036	0.0042	0.0039	0.0026	0.0028
23:00 - 00:00	0.0047	0.0046	0.0045	0.0042	0.0041	0.0042	0.0039
00:00 - 01:00	0.0029	0.0038	0.0042	0.0032	0.0033	0.0030	0.0041
01:00 - 02:00	0.0037	0.0034	0.0044	0.0044	0.0044	0.0032	0.0043
02:00 - 03:00	0.0032	0.0043	0.0047	0.0036	0.0043	0.0031	0.0031
03:00 - 04:00	0.0040	0.0037	0.0030	0.0027	0.0036	0.0032	0.0042
04:00 - 05:00	0.0028	0.0036	0.0028	0.0024	0.0041	0.0034	0.0039
05:00 - 06:00	0.0038	0.0043	0.0030	0.0036	0.0039	0.0024	0.0038
06:00 - 07:00	0.0033	0.0042	0.0044	0.0029	0.0043	0.0039	0.0046
07:00 - 08:00	0.0025	0.0034	0.0034	0.0038	0.0044	0.0036	0.0042
08:00 - 09:00	0.0026	0.0038	0.0025	0.0024	0.0047	0.0027	0.0046
09:00 - 10:00	0.0024	0.0038	0.0033	0.0036	0.0033	0.0044	0.0041
Average-24Hr*	0.0034	0.0039	0.0035	0.0036	0.0039	0.0033	0.0037
Max-1Hr	0.0047	0.0047	0.0047	0.0047	0.0047	0.0047	0.0046
Min-1Hr	0.0024	0.0024	0.0025	0.0024	0.0026	0.0024	0.0024
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-BCC2

Location : Wat Sophon Wanaram Monitor Period : 03-10 Oct 2025
Analyzer Model : API 100A Station No : Shelter 13
Serial No : 342 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 10 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 09 Jan 2026

Time	SO2 Concentration (ppm)						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
09:00 - 10:00	0.0044	0.0045	0.0037	0.0046	0.0045	0.0033	0.0042
10:00 - 11:00	0.0042	0.0042	0.0043	0.0039	0.0055	0.0038	0.0038
11:00 - 12:00	0.0033	0.0035	0.0037	0.0037	0.0058	0.0041	0.0040
12:00 - 13:00	0.0034	0.0041	0.0043	0.0044	0.0055	0.0040	0.0044
13:00 - 14:00	0.0032	0.0038	0.0039	0.0042	0.0054	0.0039	0.0039
14:00 - 15:00	0.0036	0.0039	0.0042	0.0041	0.0057	0.0046	0.0042
15:00 - 16:00	0.0043	0.0047	0.0039	0.0032	0.0044	0.0036	0.0042
16:00 - 17:00	0.0046	0.0042	0.0033	0.0043	0.0051	0.0045	0.0038
17:00 - 18:00	0.0033	0.0035	0.0036	0.0047	0.0043	0.0034	0.0041
18:00 - 19:00	0.0044	0.0039	0.0039	0.0038	0.0059	0.0044	0.0042
19:00 - 20:00	0.0041	0.0036	0.0046	0.0034	0.0053	0.0047	0.0034
20:00 - 21:00	0.0046	0.0033	0.0045	0.0034	0.0035	0.0039	0.0034
21:00 - 22:00	0.0044	0.0046	0.0035	0.0038	0.0037	0.0032	0.0037
22:00 - 23:00	0.0036	0.0042	0.0035	0.0036	0.0041	0.0040	0.0045
23:00 - 00:00	0.0033	0.0045	0.0043	0.0052	0.0047	0.0046	0.0040
00:00 - 01:00	0.0033	0.0044	0.0046	0.0033	0.0037	0.0040	0.0034
01:00 - 02:00	0.0046	0.0044	0.0046	0.0041	0.0044	0.0033	0.0033
02:00 - 03:00	0.0037	0.0039	0.0044	0.0041	0.0032	0.0043	0.0043
03:00 - 04:00	0.0039	0.0039	0.0046	0.0039	0.0034	0.0045	0.0040
04:00 - 05:00	0.0033	0.0047	0.0044	0.0033	0.0045	0.0033	0.0044
05:00 - 06:00	0.0041	0.0037	0.0039	0.0045	0.0039	0.0038	0.0043
06:00 - 07:00	0.0036	0.0047	0.0033	0.0040	0.0035	0.0040	0.0041
07:00 - 08:00	0.0043	0.0043	0.0037	0.0053	0.0045	0.0047	0.0037
08:00 - 09:00	0.0047	0.0038	0.0040	0.0038	0.0040	0.0037	0.0047

Average-24Hr*	0.0039	0.0041	0.0040	0.0040	0.0045	0.0040	0.0040
Max-1Hr	0.0047	0.0047	0.0046	0.0053	0.0059	0.0047	0.0047
Min-1Hr	0.0032	0.0033	0.0033	0.0032	0.0032	0.0032	0.0033

Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-BCC2

Location : Ban Plong Community Monitor Period : 03-10 Oct 2025
Analyzer Model : API 100A Station No : Shelter 15
Serial No : 120 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 10 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 09 Jan 2026

Time	SO2 Concentration (ppm)						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
10:00 - 11:00	0.0056	0.0055	0.0090	0.0077	0.0090	0.0085	0.0084
11:00 - 12:00	0.0078	0.0091	0.0075	0.0084	0.0063	0.0061	0.0080
12:00 - 13:00	0.0068	0.0050	0.0080	0.0045	0.0086	0.0079	0.0092
13:00 - 14:00	0.0091	0.0073	0.0046	0.0091	0.0052	0.0096	0.0090
14:00 - 15:00	0.0066	0.0086	0.0080	0.0051	0.0047	0.0068	0.0054
15:00 - 16:00	0.0088	0.0070	0.0086	0.0085	0.0081	0.0079	0.0075
16:00 - 17:00	0.0086	0.0090	0.0048	0.0060	0.0075	0.0077	0.0075
17:00 - 18:00	0.0091	0.0074	0.0073	0.0087	0.0053	0.0087	0.0056
18:00 - 19:00	0.0097	0.0091	0.0097	0.0074	0.0087	0.0062	0.0069
19:00 - 20:00	0.0084	0.0066	0.0082	0.0090	0.0067	0.0069	0.0087
20:00 - 21:00	0.0086	0.0086	0.0069	0.0083	0.0046	0.0071	0.0064
21:00 - 22:00	0.0079	0.0096	0.0071	0.0082	0.0080	0.0079	0.0097
22:00 - 23:00	0.0052	0.0077	0.0091	0.0089	0.0081	0.0069	0.0091
23:00 - 00:00	0.0061	0.0067	0.0087	0.0065	0.0062	0.0068	0.0065
00:00 - 01:00	0.0092	0.0073	0.0075	0.0063	0.0063	0.0056	0.0055
01:00 - 02:00	0.0093	0.0087	0.0053	0.0055	0.0053	0.0079	0.0049
02:00 - 03:00	0.0074	0.0069	0.0058	0.0073	0.0073	0.0059	0.0093
03:00 - 04:00	0.0055	0.0068	0.0065	0.0081	0.0054	0.0080	0.0074
04:00 - 05:00	0.0053	0.0053	0.0096	0.0095	0.0078	0.0070	0.0083
05:00 - 06:00	0.0064	0.0057	0.0068	0.0066	0.0063	0.0048	0.0070
06:00 - 07:00	0.0081	0.0059	0.0095	0.0047	0.0097	0.0087	0.0077
07:00 - 08:00	0.0080	0.0097	0.0066	0.0053	0.0074	0.0090	0.0063
08:00 - 09:00	0.0051	0.0064	0.0086	0.0096	0.0047	0.0059	0.0065
09:00 - 10:00	0.0064	0.0059	0.0060	0.0089	0.0050	0.0080	0.0083

Average-24Hr*	0.0075	0.0073	0.0075	0.0074	0.0088	0.0073	0.0075
Max-1Hr	0.0097	0.0097	0.0097	0.0096	0.0097	0.0096	0.0097
Min-1Hr	0.0051	0.0050	0.0046	0.0045	0.0046	0.0048	0.0049

Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide

MTR-BCC2


Location : Wat Nong Feab Monitor Period : 03-10 Oct 2025
 Analyzer Model : API 100A Station No : Shelter 14
 Serial No : 906 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Teledyne 700E Serial No : 587
 Calibration Gas Cylinder I.D.: EB0102326
 Certified Date : 10 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
 Expire Date : 09 Jan 2026

Time	SO2 Concentration (ppm)						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
11:00 - 12:00	0.0046	0.0056	0.0055	0.0056	0.0032	0.0040	0.0060
12:00 - 13:00	0.0061	0.0034	0.0036	0.0044	0.0033	0.0041	0.0037
13:00 - 14:00	0.0054	0.0044	0.0060	0.0042	0.0042	0.0036	0.0048
14:00 - 15:00	0.0060	0.0034	0.0041	0.0063	0.0034	0.0037	0.0049
15:00 - 16:00	0.0038	0.0043	0.0054	0.0034	0.0052	0.0033	0.0052
16:00 - 17:00	0.0051	0.0043	0.0050	0.0035	0.0065	0.0043	0.0053
17:00 - 18:00	0.0034	0.0038	0.0055	0.0038	0.0033	0.0061	0.0065
18:00 - 19:00	0.0043	0.0038	0.0045	0.0046	0.0062	0.0060	0.0055
19:00 - 20:00	0.0063	0.0058	0.0054	0.0046	0.0061	0.0042	0.0047
20:00 - 21:00	0.0064	0.0051	0.0062	0.0049	0.0044	0.0052	0.0054
21:00 - 22:00	0.0049	0.0059	0.0036	0.0059	0.0045	0.0047	0.0062
22:00 - 23:00	0.0044	0.0039	0.0049	0.0044	0.0034	0.0063	0.0035
23:00 - 00:00	0.0052	0.0053	0.0053	0.0060	0.0049	0.0051	0.0043
00:00 - 01:00	0.0055	0.0044	0.0046	0.0063	0.0058	0.0037	0.0049
01:00 - 02:00	0.0038	0.0062	0.0063	0.0034	0.0034	0.0062	0.0040
02:00 - 03:00	0.0041	0.0059	0.0035	0.0055	0.0035	0.0047	0.0058
03:00 - 04:00	0.0042	0.0060	0.0051	0.0041	0.0054	0.0054	0.0055
04:00 - 05:00	0.0064	0.0059	0.0041	0.0042	0.0057	0.0039	0.0061
05:00 - 06:00	0.0034	0.0058	0.0042	0.0053	0.0039	0.0044	0.0047
06:00 - 07:00	0.0035	0.0046	0.0049	0.0061	0.0036	0.0054	0.0046
07:00 - 08:00	0.0062	0.0042	0.0051	0.0046	0.0032	0.0034	0.0037
08:00 - 09:00	0.0043	0.0038	0.0044	0.0034	0.0051	0.0048	0.0034
09:00 - 10:00	0.0057	0.0051	0.0065	0.0058	0.0060	0.0046	0.0050
10:00 - 11:00	0.0047	0.0049	0.0054	0.0041	0.0065	0.0052	0.0058
Average-24Hr*	0.0049	0.0048	0.0050	0.0048	0.0046	0.0047	0.0050
Max-1Hr	0.0064	0.0062	0.0065	0.0063	0.0065	0.0063	0.0065
Min-1Hr	0.0034	0.0034	0.0035	0.0034	0.0032	0.0033	0.0034
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 11:00-11:00


 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist


 (Miss Preeda Somjai)
 Technical Management Team

ภาคผนวก ง.3

ใบรับรองผลการตรวจวัดระดับเสียงในบรรยากาศทั่วไป



Noise Monitoring Result : Community Noise MTR-BCC2

Location : Wat Map Chalute
SLM Model : Cirrus CR161B
Site Operator : Mr. Sittichai Sawangwongchai

Monitor Period : 03-10 Oct 2025
Serial No : G302356

Calibrator Model : Cirrus CR:515
Calibration Ref dB(A) : 94.0
SLM Reading / Adjust dB(A) : 93.7/0.0
Cal Sheet No.: CR-515-2025-272

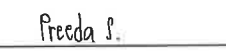
Serial No : 94296
Certified Date : 27 Feb 2025
Expire Date : 25 Feb 2026

Time	Equivalent Sound Pressure Level (dB(A))						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
10:00 - 11:00	57.4	55.9	57.5	57.6	57.5	57.8	56.9
11:00 - 12:00	58.8	58.2	58.9	57.9	59.1	57.8	57.8
12:00 - 13:00	63.3	56.5	59.5	61.9	58.1	59.6	60.0
13:00 - 14:00	59.8	57.2	57.6	61.0	57.2	55.9	62.2
14:00 - 15:00	57.0	51.8	56.4	59.2	57.7	55.7	58.2
15:00 - 16:00	57.5	53.7	58.1	57.7	57.7	56.3	55.8
16:00 - 17:00	59.3	56.6	58.0	60.2	58.5	57.9	59.4
17:00 - 18:00	61.6	59.1	59.5	61.3	59.0	59.7	59.8
18:00 - 19:00	57.4	57.4	55.0	59.6	57.0	57.1	58.3
19:00 - 20:00	58.7	56.7	56.9	56.3	56.2	58.8	57.1
20:00 - 21:00	56.0	57.7	56.0	55.4	54.3	55.8	55.9
21:00 - 22:00	53.9	53.7	52.7	57.5	51.8	51.9	52.0
22:00 - 23:00	55.7	53.8	53.1	60.5	57.2	51.8	50.7
23:00 - 00:00	53.0	55.3	52.7	58.1	49.8	51.1	48.4
00:00 - 01:00	53.0	53.1	62.9	57.3	49.8	48.9	50.4
01:00 - 02:00	53.4	51.0	50.7	60.9	47.7	46.4	46.9
02:00 - 03:00	52.5	50.3	66.0	59.1	46.8	47.2	49.0
03:00 - 04:00	53.5	53.5	61.2	59.0	49.1	49.4	48.9
04:00 - 05:00	54.1	52.5	56.2	55.5	53.3	51.1	50.2
05:00 - 06:00	54.4	56.1	54.5	54.5	55.3	54.2	56.1
06:00 - 07:00	61.5	57.9	59.8	57.0	58.7	59.3	60.0
07:00 - 08:00	61.8	58.3	61.6	59.8	61.4	61.6	60.9
08:00 - 09:00	60.7	56.2	59.8	57.3	59.5	59.4	61.9
09:00 - 10:00	58.1	57.3	57.8	57.1	57.0	57.5	56.8
Leq(24)*	58.3	56.0	59.0	58.8	56.8	56.7	57.5
Ldn	62.9	61.2	66.4	64.9	61.2	60.6	61.2
Lmax **	90.8	85.8	87.1	94.5	86.8	84.3	92.1
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 10:00-10:00

** Maximum Sound Pressure Level between 10:00-10:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-BCC2

Location : Wat Map Chalute
SLM Model : Cirrus CR161B
Site Operator : Mr. Sittichai Sawangwongchai

Monitor Period : 03-10 Oct 2025
Serial No : G302356

Calibrator Model : Cirrus CR:515
Calibration Ref dB(A) : 94.0
SLM Reading / Adjust dB(A) : 93.7/0.0
Cal Sheet No.: CR-515-2025-272

Serial No : 94296
Certified Date : 27 Feb 2025
Expire Date : 25 Feb 2026

Time	L90 (dB(A))						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
10:00 - 11:00	44.9	45.7	50.0	48.6	48.3	46.8	46.6
11:00 - 12:00	46.6	44.2	50.6	47.6	47.7	48.2	47.0
12:00 - 13:00	49.0	44.8	48.3	50.7	49.3	50.0	48.2
13:00 - 14:00	45.8	43.7	49.3	50.6	48.5	48.1	49.5
14:00 - 15:00	44.4	41.7	48.2	51.4	48.7	47.5	47.4
15:00 - 16:00	45.7	43.9	50.0	51.0	48.6	47.2	46.7
16:00 - 17:00	47.9	47.0	48.5	51.1	48.2	47.7	48.1
17:00 - 18:00	50.7	48.9	47.2	49.4	48.7	48.9	48.1
18:00 - 19:00	50.9	50.4	47.1	50.1	49.2	49.9	49.3
19:00 - 20:00	51.8	51.1	48.4	50.0	49.1	51.3	49.2
20:00 - 21:00	49.4	51.0	48.5	50.6	48.8	49.2	48.8
21:00 - 22:00	49.5	50.9	49.5	50.1	48.3	47.6	47.7
22:00 - 23:00	49.4	50.2	48.6	50.0	48.0	47.5	46.5
23:00 - 00:00	49.3	52.8	48.2	50.6	47.5	46.0	45.6
00:00 - 01:00	50.4	50.6	48.8	50.5	45.1	45.0	45.3
01:00 - 02:00	50.3	49.3	47.9	50.5	44.5	44.9	44.6
02:00 - 03:00	49.0	48.4	49.3	48.7	43.9	44.7	45.0
03:00 - 04:00	49.2	47.5	55.3	49.5	43.7	43.7	43.7
04:00 - 05:00	47.1	46.6	52.4	49.4	44.7	43.6	43.1
05:00 - 06:00	43.7	46.1	49.0	50.0	45.7	44.5	44.3
06:00 - 07:00	51.0	48.3	50.9	49.4	50.1	49.1	48.2
07:00 - 08:00	53.3	48.3	52.9	49.4	52.5	50.0	49.6
08:00 - 09:00	51.9	47.4	49.0	49.9	49.9	48.5	47.9
09:00 - 10:00	49.8	48.6	48.5	49.7	48.8	47.5	48.4
L90(avg)*	49.4	48.6	49.9	50.0	48.3	47.9	47.4

Remark : * Average time between 10:00-10:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-BCC2

Location : North of Fence Monitor Period : 03-10 Oct 2025
SLM Model : Cirrus CR161B Serial No : G301333
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 27 Feb 2025
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 25 Feb 2026
Cal Sheet No.: CR-515-2025-272

Time	Equivalent Sound Pressure Level (dB(A))							
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025	
09:00 - 10:00	65.6	67.6	66.0	66.9	66.5	65.3	65.6	
10:00 - 11:00	65.4	67.0	66.0	66.1	66.3	65.0	65.7	
11:00 - 12:00	65.5	66.7	65.9	65.8	65.7	64.8	66.1	
12:00 - 13:00	65.7	65.7	65.9	65.6	65.5	65.3	66.0	
13:00 - 14:00	65.5	66.2	65.7	65.6	65.9	64.3	68.3	
14:00 - 15:00	64.6	65.4	66.0	65.5	65.5	64.5	67.0	
15:00 - 16:00	64.8	65.3	65.8	65.5	65.5	64.9	66.3	
16:00 - 17:00	65.1	65.7	66.4	65.9	66.1	65.6	66.4	
17:00 - 18:00	65.2	66.2	67.1	66.3	66.2	65.9	66.3	
18:00 - 19:00	65.7	66.6	67.0	66.5	66.5	66.3	66.3	
19:00 - 20:00	65.9	66.7	66.9	66.6	66.6	66.9	66.6	
20:00 - 21:00	66.1	66.8	67.0	66.7	66.5	67.0	66.6	
21:00 - 22:00	66.2	66.5	66.6	66.7	66.3	66.6	66.6	
22:00 - 23:00	66.2	66.5	66.6	66.6	66.3	67.0	66.6	
23:00 - 00:00	66.6	66.9	66.7	66.6	66.2	66.8	66.8	
00:00 - 01:00	66.7	66.8	67.7	66.7	66.8	66.8	66.7	
01:00 - 02:00	67.0	67.1	67.9	67.3	66.7	66.6	66.8	
02:00 - 03:00	67.0	66.8	67.6	67.5	66.6	66.6	66.9	
03:00 - 04:00	67.0	66.4	68.2	67.2	66.7	66.4	67.0	
04:00 - 05:00	67.1	66.3	68.2	67.0	66.8	66.8	67.0	
05:00 - 06:00	67.1	66.6	68.1	67.2	67.0	66.9	67.0	
06:00 - 07:00	67.8	66.2	68.2	67.2	66.8	66.9	66.9	
07:00 - 08:00	68.1	66.1	67.9	67.2	66.2	66.8	66.9	
08:00 - 09:00	68.2	66.1	67.3	67.0	65.9	66.3	66.0	
Leq(24)*	66.4	66.5	67.0	66.6	66.3	66.2	66.6	
Ldn	73.2	73.0	74.0	73.4	73.0	73.0	73.2	
Lmax **	84.8	81.3	84.1	79.5	74.1	84.7	96.2	
Standard-24Hr	70 dB(A)							
Standard-Max	115 dB(A)							

Remark : * Average time between 09:00-09:00

** Maximum Sound Pressure Level between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-BCC2

Location : North of Fence Monitor Period : 03-10 Oct 2025
SLM Model : Cirrus CR161B Serial No : G301333
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 27 Feb 2025
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 25 Feb 2026
Cal Sheet No.: CR-515-2025-272

Time	L90 (dB(A))							
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025	
09:00 - 10:00	64.7	66.3	65.1	65.8	65.6	64.4	64.7	
10:00 - 11:00	64.5	66.0	65.2	65.2	65.5	64.2	64.8	
11:00 - 12:00	64.6	65.4	65.0	64.9	64.8	64.0	65.3	
12:00 - 13:00	64.7	64.8	65.0	64.8	64.6	63.8	65.4	
13:00 - 14:00	64.2	65.2	64.9	64.8	65.1	63.6	65.8	
14:00 - 15:00	63.8	64.5	65.0	64.7	64.7	63.9	65.5	
15:00 - 16:00	64.0	64.5	64.9	64.7	64.6	64.1	65.5	
16:00 - 17:00	64.4	64.9	65.4	65.1	65.2	64.7	65.5	
17:00 - 18:00	64.5	65.3	66.2	65.4	65.3	64.8	65.4	
18:00 - 19:00	64.8	65.6	66.1	65.7	65.6	65.3	65.5	
19:00 - 20:00	65.0	65.8	65.9	65.7	65.7	65.8	65.8	
20:00 - 21:00	65.1	65.8	65.9	65.7	65.5	65.9	65.7	
21:00 - 22:00	65.4	65.5	65.7	65.8	65.3	65.7	65.8	
22:00 - 23:00	65.4	65.7	65.7	65.8	65.3	65.9	65.8	
23:00 - 00:00	65.8	65.9	65.7	65.8	65.3	65.7	65.9	
00:00 - 01:00	66.0	65.9	66.2	65.8	65.7	65.6	65.8	
01:00 - 02:00	66.0	66.1	66.8	66.1	65.7	65.5	66.2	
02:00 - 03:00	66.0	65.9	66.5	66.3	65.8	65.6	66.2	
03:00 - 04:00	65.9	65.5	66.9	66.1	65.8	65.5	66.2	
04:00 - 05:00	65.9	65.5	67.0	66.0	65.7	65.8	66.2	
05:00 - 06:00	65.7	65.5	66.8	66.3	65.8	66.0	66.2	
06:00 - 07:00	66.5	65.4	66.9	66.4	65.8	66.1	66.3	
07:00 - 08:00	66.7	65.2	66.6	66.4	65.3	66.0	66.0	
08:00 - 09:00	67.0	65.2	66.3	66.0	64.9	65.3	65.3	
L90(avg)*	65.4	65.5	66.0	65.7	65.4	65.2	65.7	

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-BCC2

Location : South of Fence Monitor Period : 03-10 Oct 2025
SLM Model : Cirrus CR161B Serial No : G301331
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 27 Feb 2025
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 25 Feb 2026
Cal Sheet No.: CR-515-2025-272

Time	Equivalent Sound Pressure Level (dB(A))						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
09:00 - 10:00	63.7	58.6	58.0	57.7	57.3	56.8	67.2
10:00 - 11:00	56.8	57.8	58.0	58.2	56.7	57.2	58.0
11:00 - 12:00	58.0	57.5	57.6	57.4	63.6	56.1	61.0
12:00 - 13:00	59.0	57.1	56.8	57.3	56.8	58.2	56.6
13:00 - 14:00	58.4	57.5	57.1	57.6	57.2	56.6	63.8
14:00 - 15:00	56.9	58.7	56.7	57.3	56.8	61.5	62.9
15:00 - 16:00	57.7	57.7	56.9	57.3	57.0	57.4	57.3
16:00 - 17:00	57.8	57.4	57.1	57.4	57.6	57.3	58.0
17:00 - 18:00	57.8	57.5	57.3	58.1	57.7	57.6	57.5
18:00 - 19:00	57.7	58.4	56.8	58.1	57.7	57.8	57.3
19:00 - 20:00	57.6	60.9	56.9	57.9	57.6	58.6	57.2
20:00 - 21:00	58.0	59.8	57.8	58.1	57.6	57.3	57.4
21:00 - 22:00	57.8	57.3	57.8	57.9	57.5	57.1	57.4
22:00 - 23:00	57.7	56.5	57.9	58.1	57.5	57.3	57.5
23:00 - 00:00	57.8	56.6	56.5	57.7	57.5	57.1	57.6
00:00 - 01:00	57.9	56.4	62.5	61.5	56.0	56.1	57.2
01:00 - 02:00	57.1	56.4	57.3	62.3	55.6	55.5	57.1
02:00 - 03:00	56.6	56.4	59.8	56.4	55.7	55.5	56.8
03:00 - 04:00	56.3	56.1	61.3	56.6	55.6	55.4	57.0
04:00 - 05:00	56.0	55.9	56.8	56.2	55.6	55.3	56.7
05:00 - 06:00	55.4	56.1	57.3	56.3	56.2	55.4	56.9
06:00 - 07:00	64.0	57.7	57.8	56.9	57.1	58.2	58.5
07:00 - 08:00	61.0	57.6	57.1	57.2	56.2	57.2	59.1
08:00 - 09:00	60.5	57.7	56.8	58.4	57.1	57.8	57.7
Leq(24)*	58.9	57.7	58.0	58.1	57.5	57.3	59.6
Ldn	65.0	63.2	65.3	64.9	63.1	63.0	64.4
Lmax **	90.0	83.6	86.8	81.5	74.5	92.7	97.8
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 09:00-09:00

** Maximum Sound Pressure Level between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-BCC2

Location : South of Fence Monitor Period : 03-10 Oct 2025
SLM Model : Cirrus CR161B Serial No : G301331
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 27 Feb 2025
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 25 Feb 2026
Cal Sheet No.: CR-515-2025-272

Time	L90 (dB(A))						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
09:00 - 10:00	56.6	57.8	57.1	56.9	56.6	55.9	57.7
10:00 - 11:00	55.5	57.5	57.1	56.6	56.3	55.6	55.9
11:00 - 12:00	57.4	57.0	56.8	56.4	56.4	55.4	56.3
12:00 - 13:00	57.3	56.6	56.4	56.8	56.1	55.4	55.9
13:00 - 14:00	56.9	56.8	56.2	56.7	56.4	55.6	56.9
14:00 - 15:00	56.5	56.8	56.0	56.7	56.4	55.8	57.0
15:00 - 16:00	56.7	56.9	56.1	56.6	56.5	55.8	56.7
16:00 - 17:00	56.9	57.0	56.6	56.9	57.0	56.5	56.9
17:00 - 18:00	57.3	57.1	56.6	57.2	57.3	56.7	57.0
18:00 - 19:00	57.3	57.5	56.4	57.8	57.4	57.1	56.8
19:00 - 20:00	57.4	59.6	56.4	57.7	57.3	57.0	56.9
20:00 - 21:00	57.1	59.3	57.5	57.8	57.3	57.0	57.1
21:00 - 22:00	57.1	56.0	57.5	57.6	57.2	56.9	57.1
22:00 - 23:00	57.1	56.2	57.5	57.6	57.2	57.0	57.2
23:00 - 00:00	57.5	56.3	55.8	57.2	57.2	56.8	57.2
00:00 - 01:00	56.7	56.2	56.1	59.9	55.2	55.3	56.9
01:00 - 02:00	56.5	56.1	56.8	55.3	55.2	55.2	56.9
02:00 - 03:00	56.1	56.0	56.5	56.0	55.4	55.1	56.5
03:00 - 04:00	56.0	55.7	57.0	56.1	55.3	55.1	56.7
04:00 - 05:00	55.5	55.6	56.4	55.8	55.2	55.0	56.3
05:00 - 06:00	55.1	55.7	56.6	55.8	55.4	55.0	56.6
06:00 - 07:00	56.5	56.1	57.1	56.4	55.9	55.2	56.9
07:00 - 08:00	58.1	57.2	56.7	56.6	55.2	56.6	56.3
08:00 - 09:00	58.6	57.1	56.5	56.9	56.3	56.8	56.0
L90(avg)*	56.9	57.0	56.7	57.0	56.4	56.1	56.8

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



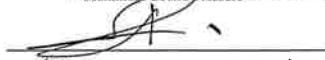
Noise Monitoring Result : Community Noise

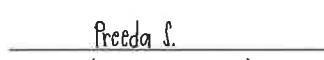
MTR-BCC2

Location : East of Fence				Monitor Period : 03-10 Oct 2025			
SLM Model : Cirrus CR161B				Serial No : G301354			
Site Operator : Mr. Sittichai Sawangwongchai							
Calibrator Model : Cirrus CR:515				Serial No : 94296			
Calibration Ref dB(A) : 94.0				Certified Date : 27 Feb 2025			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 25 Feb 2026			
Cal Sheet No.: CR-515-2025-272							
Time	Equivalent Sound Pressure Level (dB(A))						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
09:00 - 10:00	58.3	58.4	58.4	57.3	57.6	58.1	59.8
10:00 - 11:00	57.4	57.6	57.7	56.6	56.1	55.8	56.8
11:00 - 12:00	57.8	56.8	56.9	56.7	57.0	54.9	56.1
12:00 - 13:00	57.6	56.7	57.1	55.6	55.2	55.1	56.3
13:00 - 14:00	59.2	57.4	57.0	55.6	55.7	54.8	63.0
14:00 - 15:00	56.5	56.9	56.2	54.9	68.4	54.5	60.6
15:00 - 16:00	56.8	56.9	56.5	56.0	57.5	54.5	56.3
16:00 - 17:00	56.8	56.9	57.7	55.5	55.4	55.2	56.0
17:00 - 18:00	56.3	55.5	57.7	55.3	55.8	55.3	55.2
18:00 - 19:00	57.5	55.9	58.2	55.8	56.5	56.9	56.1
19:00 - 20:00	56.7	56.0	57.3	55.2	56.3	57.5	56.6
20:00 - 21:00	59.3	57.1	57.0	55.1	56.1	56.4	56.9
21:00 - 22:00	59.8	57.0	55.7	57.0	55.7	56.0	57.0
22:00 - 23:00	58.9	57.7	56.1	55.8	55.5	55.8	57.1
23:00 - 00:00	58.5	58.5	56.7	56.5	56.5	55.8	57.0
00:00 - 01:00	58.7	58.0	59.6	57.2	56.7	55.1	56.7
01:00 - 02:00	57.4	58.0	56.4	58.3	57.0	54.9	57.8
02:00 - 03:00	57.3	57.2	57.6	55.6	57.3	56.4	57.6
03:00 - 04:00	58.2	56.7	59.3	56.1	57.4	56.1	57.4
04:00 - 05:00	57.4	57.1	57.8	56.7	56.5	56.6	56.7
05:00 - 06:00	57.0	56.9	58.9	58.0	57.7	57.4	57.3
06:00 - 07:00	62.3	55.4	59.3	57.4	57.1	57.6	58.6
07:00 - 08:00	60.6	57.1	58.5	58.2	57.3	58.6	58.3
08:00 - 09:00	59.7	57.4	57.8	57.5	57.4	58.3	58.0
Leq(24)*	58.4	57.1	57.7	56.5	58.6	56.3	57.9
Ldn	65.1	63.7	64.5	63.3	63.8	62.7	63.9
Lmax **	90.3	88.6	91.7	92.4	88.6	90.5	96.7
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 09:00-09:00

** Maximum Sound Pressure Level between 09:00-09:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



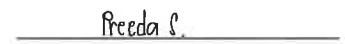
Noise Monitoring Result : Background Noise

MTR-BCC2

Location : East of Fence				Monitor Period : 03-10 Oct 2025			
SLM Model : Cirrus CR161B				Serial No : G301354			
Site Operator : Mr. Sittichai Sawangwongchai							
Calibrator Model : Cirrus CR:515				Serial No : 94296			
Calibration Ref dB(A) : 94.0				Certified Date : 27 Feb 2025			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 25 Feb 2026			
Cal Sheet No.: CR-515-2025-272							
Time	L90 (dB(A))						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
09:00 - 10:00	56.3	57.0	56.2	56.4	55.9	55.0	55.9
10:00 - 11:00	56.7	56.8	56.3	56.0	55.6	54.4	56.0
11:00 - 12:00	56.4	56.3	56.4	54.9	55.7	54.2	55.5
12:00 - 13:00	55.9	56.2	56.5	55.0	54.5	54.1	55.4
13:00 - 14:00	56.9	56.3	56.3	54.8	54.9	53.9	55.9
14:00 - 15:00	55.2	55.5	55.5	54.2	55.5	53.6	55.4
15:00 - 16:00	55.5	55.6	55.6	54.4	55.1	53.5	55.3
16:00 - 17:00	55.4	55.8	56.3	54.7	54.8	54.5	55.4
17:00 - 18:00	55.0	54.4	56.9	54.6	54.8	54.1	54.6
18:00 - 19:00	55.5	54.9	56.9	55.0	55.8	54.4	55.1
19:00 - 20:00	55.9	55.1	56.6	54.6	55.8	55.0	56.0
20:00 - 21:00	56.8	55.6	55.9	54.6	55.2	55.5	56.2
21:00 - 22:00	58.4	55.9	55.0	54.7	54.1	55.4	56.4
22:00 - 23:00	57.3	57.1	55.3	55.2	54.1	55.3	56.4
23:00 - 00:00	57.5	57.5	55.8	55.5	55.7	54.7	56.4
00:00 - 01:00	57.6	57.3	55.7	54.8	55.2	54.6	55.5
01:00 - 02:00	56.1	56.8	55.5	55.8	55.8	54.3	57.1
02:00 - 03:00	56.5	56.6	55.1	55.2	56.6	55.7	56.2
03:00 - 04:00	57.1	56.1	56.2	55.6	56.7	55.4	56.1
04:00 - 05:00	55.6	56.1	57.2	55.4	55.9	55.2	54.7
05:00 - 06:00	55.3	55.4	57.9	56.9	56.7	56.0	56.1
06:00 - 07:00	57.6	54.4	57.8	56.9	56.3	56.7	57.5
07:00 - 08:00	58.3	56.2	57.9	57.6	56.6	57.8	57.8
08:00 - 09:00	58.3	56.7	57.3	56.3	56.3	57.3	57.2
L90(avg)*	56.7	56.1	56.4	55.5	55.6	55.2	56.1

Remark : * Average time between 09:00-09:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-BCC2

Location : West of Fence Monitor Period : 03-10 Oct 2025
SLM Model : Cirrus CR161B Serial No : G301250
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 27 Feb 2025
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 25 Feb 2026
Cal Sheet No.: CR-515-2025-272

Time	Equivalent Sound Pressure Level (dB(A))						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
09:00 - 10:00	62.0	63.7	61.9	63.2	62.7	62.0	63.0
10:00 - 11:00	61.9	63.0	61.8	62.0	63.8	61.7	61.9
11:00 - 12:00	61.6	62.3	61.7	61.7	63.8	61.6	61.9
12:00 - 13:00	62.1	62.2	61.7	61.4	63.3	61.5	61.8
13:00 - 14:00	62.7	62.4	61.7	61.0	63.6	61.2	65.1
14:00 - 15:00	61.4	62.1	61.4	60.9	62.8	62.0	63.5
15:00 - 16:00	61.4	63.8	61.6	61.1	61.6	61.9	61.9
16:00 - 17:00	61.4	61.5	62.5	61.6	62.0	62.0	61.9
17:00 - 18:00	61.8	61.8	63.0	61.9	62.2	62.4	62.1
18:00 - 19:00	62.2	62.2	63.0	62.3	62.6	62.7	62.5
19:00 - 20:00	62.7	62.5	63.0	62.4	62.7	63.6	62.6
20:00 - 21:00	63.0	62.7	62.8	62.4	62.5	63.1	62.8
21:00 - 22:00	63.3	63.2	62.3	62.3	62.2	62.9	62.9
22:00 - 23:00	63.3	63.4	62.5	62.2	62.6	62.7	62.8
23:00 - 00:00	63.6	63.6	62.5	62.1	62.7	62.6	62.5
00:00 - 01:00	63.6	63.5	65.3	62.2	63.1	62.5	62.5
01:00 - 02:00	62.9	63.4	63.3	64.0	63.0	62.4	63.3
02:00 - 03:00	63.0	63.0	64.0	62.4	63.2	62.9	63.0
03:00 - 04:00	63.2	62.9	65.3	62.7	63.5	62.9	63.0
04:00 - 05:00	62.6	62.7	63.7	62.7	62.8	62.9	62.5
05:00 - 06:00	62.3	62.6	63.6	63.3	62.9	63.1	62.6
06:00 - 07:00	66.4	62.4	64.7	63.2	62.9	63.3	63.3
07:00 - 08:00	64.7	62.2	63.1	63.0	62.9	63.1	62.7
08:00 - 09:00	64.8	62.1	62.7	62.6	62.3	64.1	62.3
Leq(24)*	63.0	62.8	63.0	62.3	62.9	62.6	62.7
Ldn	69.9	69.4	70.2	69.1	69.4	69.2	69.2
Lmax **	92.2	77.8	83.8	80.5	75.0	97.1	94.2
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 09:00-09:00

** Maximum Sound Pressure Level between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-BCC2

Location : West of Fence Monitor Period : 03-10 Oct 2025
SLM Model : Cirrus CR161B Serial No : G301250
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 27 Feb 2025
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 25 Feb 2026
Cal Sheet No.: CR-515-2025-272

Time	L90 (dB(A))						
	03-04 Oct 2025	04-05 Oct 2025	05-06 Oct 2025	06-07 Oct 2025	07-08 Oct 2025	08-09 Oct 2025	09-10 Oct 2025
09:00 - 10:00	61.4	63.3	61.4	62.5	61.8	61.4	61.9
10:00 - 11:00	61.4	62.3	61.3	61.4	63.4	61.2	61.5
11:00 - 12:00	61.1	61.9	61.3	61.2	63.3	61.0	61.4
12:00 - 13:00	61.1	61.7	61.3	60.8	62.8	60.8	61.4
13:00 - 14:00	61.7	61.7	61.2	60.4	63.2	60.7	61.6
14:00 - 15:00	60.9	61.3	60.9	60.4	61.3	60.7	61.5
15:00 - 16:00	61.0	61.1	61.0	60.6	61.0	60.9	61.5
16:00 - 17:00	61.0	61.1	61.6	61.0	61.5	61.4	61.6
17:00 - 18:00	61.4	61.3	62.5	61.5	61.8	61.9	61.7
18:00 - 19:00	61.8	61.7	62.6	61.9	62.2	62.2	62.1
19:00 - 20:00	62.3	62.0	62.6	62.0	62.3	62.7	62.2
20:00 - 21:00	62.4	62.3	62.3	61.9	61.9	62.5	62.3
21:00 - 22:00	62.8	62.8	61.9	61.8	61.7	62.4	62.4
22:00 - 23:00	62.7	62.9	62.0	61.7	62.0	62.2	62.3
23:00 - 00:00	63.0	63.0	62.0	61.6	62.0	62.0	62.1
00:00 - 01:00	63.1	63.0	62.3	61.5	62.4	62.0	62.1
01:00 - 02:00	62.2	62.8	62.6	62.7	62.4	61.9	62.9
02:00 - 03:00	62.5	62.6	62.4	61.9	62.7	62.4	62.3
03:00 - 04:00	62.4	62.5	63.8	62.2	63.1	62.4	62.4
04:00 - 05:00	62.2	62.3	63.2	62.2	62.3	62.4	62.1
05:00 - 06:00	61.9	62.2	63.1	62.9	62.5	62.4	62.2
06:00 - 07:00	63.3	61.9	62.9	62.8	62.4	62.7	62.9
07:00 - 08:00	63.5	61.6	62.7	62.6	61.9	62.7	62.3
08:00 - 09:00	63.5	61.4	62.4	61.9	61.9	62.6	61.9
L90(avg)*	62.2	62.2	62.2	61.8	62.3	61.9	62.0

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

ภาคผนวก ง.4

ใบรับรองผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



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TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 1209/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 02/07/2025 SAMPLING TIME : 08:52
RECEIVED DATE : 03/07/2025 ANALYTICAL DATE : 03-08/07/2025
REPORT DATE : 08/07/2025 SITE OPERATOR : Mr. Jeerawat Khothamhan
SAMPLE CONDITION : Normal FILE CODE : 225004_WW_July

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD ¹⁾
		METHODS	(non-detectable)	บ่อพักน้ำทิ้งของโครงการ	
Flow Rate*	m ³ /hr	-	-	14	-
Temperature	°C	2550 B	< 0.5	34.3	≤ 40
pH	-	4500-H ⁺ B	< 0.10	7.89	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	2,134	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	6.0	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

- Remark :**
1. Reported analysis refers to submitted sample only.
 2. This report shall not be reproduced, except in full, without official approval.
 3. ¹⁾ Notification of the Ministry of the Natural Resources and Environment, B.E.2565 (2022).
 4. *Not registered with the Department of Industrial Works.
 5. - Not available .



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 1437/68
SAMPLING BY : SECOT Co., Ltd. REGISTRATION No. : 2-239
SAMPLING DATE : 06/08/2025 SAMPLING METHOD : Grab
RECEIVED DATE : 07/08/2025 SAMPLING TIME : 09:14
ANALYTICAL DATE : 07-16/08/2025 SITE OPERATOR : Miss Salisa Ainrec
REPORT DATE : 16/08/2025 FILE CODE : 2-239-ก-0039
SAMPLE CONDITION : ใส FILE CODE : 225004_WW_August

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD ¹⁾
		METHODS	(non-detectable)	บ่อพักน้ำทิ้งของโครงการ	
Temperature	°C	2550 B	< 0.5	33.7	≤ 40
pH	-	4500-H ⁺ B	< 0.10	8.10	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	1,780	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	4.0	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

- Remark :**
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 3. ¹⁾ Notification of the Ministry of the Natural Resources and Environment, B.E.2565 (2022).
 4. - Not available .



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TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 1437/68
SAMPLING BY : SECOT Co., Ltd. REGISTRATION No. : -
SAMPLING DATE : 06/08/2025 SAMPLING METHOD : Grab
RECEIVED DATE : 06/08/2025 SAMPLING TIME : 09:14
ANALYTICAL DATE : 06/08/2025 SITE OPERATOR : Miss Salisa Ainree
REPORT DATE : 16/08/2025
SAMPLE CONDITION : ใส FILE CODE : 225004_WW_August

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งของโครงการ	STANDARD
Flow Rate	m ³ /hr	-	-	14	-

Khemchuda Insorn

(Miss Khemchuda Insorn)

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 1645/68
SAMPLING BY : SECOT Co., Ltd. REGISTRATION No. : 7-239
SAMPLING DATE : 03/09/2025 SAMPLING METHOD : Grab
RECEIVED DATE : 04/09/2025 SAMPLING TIME : 08:57
ANALYTICAL DATE : 04-09/09/2025 SITE OPERATOR : Mr. Aniwat Pimwanna
REPORT DATE : 09/09/2025
SAMPLE CONDITION : เหลืองใส FILE CODE : 225004_WW_September

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งของโครงการ	STANDARD ¹⁾
Temperature	°C	2550 B	< 0.5	33.1	≤ 40
pH	-	4500-H ⁺ B	< 0.10	8.11	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	1,700	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ท-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ท-0004

Remark : 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. ¹⁾ Notification of the Ministry of the Natural Resources and Environment, B.E.2565 (2022).
4. - Not available .



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 1645/68
SAMPLING BY : SECOT Co., Ltd. REGISTRATION No. : -
SAMPLING DATE : 03/09/2025 SAMPLING METHOD : Grab
RECEIVED DATE : 03/09/2025 SAMPLING TIME : 08:57
ANALYTICAL DATE : 03/09/2025 SITE OPERATOR : Mr. Aniwat Pimwanna
REPORT DATE : 09/09/2025 FILE CODE : 225004_WW_September
SAMPLE CONDITION : เหลือใส

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งของโครงการ	STANDARD
Flow Rate	m ³ /hr	-	-	15	-

(Mrs. Araya Tipparuk)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. - Not available .



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 1851/68
SAMPLING BY : SECOT Co., Ltd. REGISTRATION No. : 7-239
SAMPLING DATE : 01/10/2025 SAMPLING METHOD : Grab
RECEIVED DATE : 02/10/2025 SAMPLING TIME : 10:05
ANALYTICAL DATE : 02-09/10/2025 SITE OPERATOR : Miss Thipsuda Wannakran
REPORT DATE : 09/10/2025 FILE CODE : 7-239-0-0027
SAMPLE CONDITION : เหลือใส

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งของโครงการ	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	32.2	≤ 40
pH	-	4500-H ⁺ B	< 0.10	7.74	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	1,418	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-0-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-0-0004

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3. ^{1/} Notification of the Ministry of the Natural Resources and Environment, B.E.2565 (2022).

4. - Not available .



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 1851/68
SAMPLING BY : SECOT Co., Ltd. REGISTRATION No. :
SAMPLING DATE : 01/10/2025 SAMPLING METHOD : Grab
RECEIVED DATE : 01/10/2025 SAMPLING TIME : 10:05
ANALYTICAL DATE : 01/10/2025 SITE OPERATOR : Miss Thipsuda Wannakran
REPORT DATE : 09/10/2025
SAMPLE CONDITION : เหลืองใส FILE CODE : 225004_WW_October

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งของโครงการ	STANDARD
Flow Rate	m ³ /hr	-	-	14	-

(Mrs. Araya Tipparuk)
Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 2094/68
SAMPLING BY : SECOT Co., Ltd. REGISTRATION No. : 7-239
SAMPLING DATE : 05/11/2025 SAMPLING METHOD : Grab
RECEIVED DATE : 06/11/2025 SAMPLING TIME : 08:40
ANALYTICAL DATE : 06-14/11/2025 SITE OPERATOR : Miss Thipsuda Wannakran
REPORT DATE : 14/11/2025
SAMPLE CONDITION : เหลืองใส FILE CODE : 225004_WW_November

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งของโครงการ	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	30.9	≤ 40
pH	-	4500-H ⁺ B	< 0.10	7.48	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	1,330	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	< 2.5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 24th ED. 2023 (AWWA, APHA, WEF)

(Miss Khemchuda Inorn)
Analyst
REG. NO. 7-239-ค-0005

(Mrs. Araya Tipparuk)
Technical Management Team
REG. NO. 7-239-ค-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 2094/68
SAMPLING BY : SECOT Co., Ltd. REGISTRATION No. : -
SAMPLING DATE : 05/11/2025 SAMPLING METHOD : Grab
RECEIVED DATE : 05/11/2025 SAMPLING TIME : 08:40
ANALYTICAL DATE : 05/11/2025 SITE OPERATOR : Miss Thipsuda Wannakran
REPORT DATE : 14/11/2025
SAMPLE CONDITION : เหลือใส FILE CODE : 225004_WW_November

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งของโครงการ	STANDARD
Flow Rate	m ³ /hr	-	-	12	-

Araya

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC 2) REQUEST SERVICE No. : 2301/68
SAMPLING BY : SECOT Co., Ltd. REGISTRATION No. : 2-239
SAMPLING DATE : 03/12/2025 SAMPLING METHOD : Grab
RECEIVED DATE : 04/12/2025 SAMPLING TIME : 08:50
ANALYTICAL DATE : 04-12/12/2025 SITE OPERATOR : Miss Thipsuda Wannakran
REPORT DATE : 12/12/2025
SAMPLE CONDITION : เหลือใสมีตะกอน FILE CODE : 225004_WW_December

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งของโครงการ	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	29.6	≤ 40
pH	-	4500-H ⁺ B	< 0.10	7.77	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 25	1,584	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	9.3	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 5

REFERENCE - STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 24th ED. 2011 (AWWA, APHA, WEF)

Khemchuda

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-R-0005

Araya

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-R-0004

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4. - Not available .



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangkok Cogeneration Co., Ltd. (BCC 2)	REQUEST SERVICE No.	: 2301/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 03/12/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 03/12/2025	SAMPLING TIME	: 08:50
ANALYTICAL DATE	: 03/12/2025	SITE OPERATOR	: Miss Thipsuda Wannakran
REPORT DATE	: 03/12/2025		
SAMPLE CONDITION	: เหลือสิ่งใสมีตะกอน	FILE CODE	: 225004_WW_December

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD
		METHODS	(non-detectable)	บ่อพักน้ำทิ้งของโครงการ	
Flow Rate	m ³ /hr	-	-	14.0	-

(Mrs. Araya Tipparuk)

Technical Management Team

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ภาคผนวก ง.5

ใบรับรองผลการตรวจวัดระดับเสียงในพื้นที่ปฏิบัติงาน



Noise Monitoring Result : Working Noise MTR-BCC2

Location : Gas Turbine Generator No.11 Monitor Period : Sep 03, 2025
SLM Model : SCARLET ST-21D Serial No : 821082
Site Operator : Miss Wiraya Patchimboon

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : Feb 27 2025
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : Feb 25 2026
Cal Sheet No.: CR-515-2025-219

Time	Equivalent Sound Pressure Level (dB(A))	
	Sep 03, 2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00	76.0	
08:00 - 09:00	75.7	
09:00 - 10:00	73.9	
10:00 - 11:00	72.7	
11:00 - 12:00	72.4	
12:00 - 13:00	72.2	
13:00 - 14:00	72.7	
14:00 - 15:00	72.5	
15:00 - 16:00	72.5	
16:00 - 17:00	72.5	
17:00 - 18:00	72.7	
18:00 - 19:00	72.8	
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 24:00		
Leq(12)*	73.4	
Lmax **	87.2	
Standard-12Hr	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 07:00-19:00

** Maximum Sound Pressure Level between 07:00-19:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-BCC2

Location : Gas Turbine Generator No.12 Monitor Period : Sep 03, 2025
SLM Model : SCARLET ST-21D Serial No : 821080
Site Operator : Miss Wiraya Patchimboon

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : Feb 27 2025
SLM Reading / Adjust dB(A) : 93.7/0.1 Expire Date : Feb 25 2026
Cal Sheet No.: CR-515-2025-219

Time	Equivalent Sound Pressure Level (dB(A))	
	Sep 03, 2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00	76.8	
08:00 - 09:00	76.3	
09:00 - 10:00	76.4	
10:00 - 11:00	75.9	
11:00 - 12:00	76.4	
12:00 - 13:00	76.1	
13:00 - 14:00	75.8	
14:00 - 15:00	76.1	
15:00 - 16:00	76.6	
16:00 - 17:00	76.9	
17:00 - 18:00	76.3	
18:00 - 19:00	76.8	
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 24:00		
Leq(12)*	76.4	
Lmax **	92.0	
Standard-12Hr	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 07:00-19:00

** Maximum Sound Pressure Level between 07:00-19:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-BCC2

Location : Steam Turbine Generator Monitor Period : Sep 03, 2025
SLM Model : SCARLET ST-21D Serial No : 820731
Site Operator : Miss Wiraya Patchimboon

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : Feb 27 2025
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : Feb 25 2026
Cal Sheet No.: CR-515-2025-219

Time	Equivalent Sound Pressure Level (dB(A))	
	Sep 03, 2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00	82.3	
08:00 - 09:00	83.2	
09:00 - 10:00	82.6	
10:00 - 11:00	82.6	
11:00 - 12:00	82.8	
12:00 - 13:00	83.1	
13:00 - 14:00	83.3	
14:00 - 15:00	82.6	
15:00 - 16:00	82.5	
16:00 - 17:00	82.5	
17:00 - 18:00	82.9	
18:00 - 19:00	83.1	
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 24:00		
Leq(12)*	82.8	
Lmax **	85.8	
Standard-12Hr	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 07:00-19:00

** Maximum Sound Pressure Level between 07:00-19:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team

SECOT CO.,LTD

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Bangkok, Bangkok 10800

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Noise Monitoring Result : Working Noise MTR-BCC2

Location : Auxiliary Boiler Monitor Period : Sep 03, 2025
SLM Model : SCARLET ST-21D Serial No : 821081
Site Operator : Miss Wiraya Patchimboon

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : Feb 27 2025
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : Feb 25 2026
Cal Sheet No.: CR-515-2025-219

Time	Equivalent Sound Pressure Level (dB(A))	
	Sep 03, 2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00	62.8	
08:00 - 09:00	62.9	
09:00 - 10:00	59.1	
10:00 - 11:00	65.9	
11:00 - 12:00	65.9	
12:00 - 13:00	66.1	
13:00 - 14:00	62.3	
14:00 - 15:00	62.2	
15:00 - 16:00	62.3	
16:00 - 17:00	62.5	
17:00 - 18:00	62.8	
18:00 - 19:00	65.7	
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 24:00		
Leq(12)*	63.8	
Lmax **	87.2	
Standard-12Hr	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 07:00-19:00

** Maximum Sound Pressure Level between 07:00-19:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
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ภาคผนวก ง.6

ใบรับรองผลการตรวจวัดระดับเสียงเฉลี่ยตลอดระยะเวลาการทำงาน



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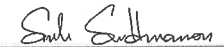
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NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC2) REFERENCE NO. : 225004-TWA-2509-0049
MEASUREMENT BY : SECOT Co., Ltd. MEASUREMENT DATE : 03/09/2025
OPERATOR : Miss Wiraya Patchimboon INSTRUMENT : Dosimeter
INSTRUMENT MODEL : Cirrus CR110A INSTRUMENT SERIAL NO. : CB1023
CALIBRATOR MODEL : Cirrus RC 110A CALIBRATOR SERIAL NO. : 95167
CALIBRATION REF. : 1,000 Hz, 114 dB CALIBRATION DATE : 21/02/2025
READING / ADJUST : 113.8 / 0.2 EXPIRE DATE : 20/02/2026
CAL SHEET NO. : NC-CIRRUS-2025-141

OPERATOR ID	LOCATION	TIME	%DOSE	SOUND PRESSURE LEVEL (dBA)	
				TWA (8 hr)	STANDARD*
2025001	Operator Maintenance	07.57-15.57	47.1	81.7	85.0


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team

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 3. * Notification of the Department of Labour Protection and Welfare, B.E.2561 (2018).
 4. TWA means Time Weighted Average.



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NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME : Bangkok Cogeneration Co., Ltd. (BCC2) REFERENCE NO. : 225004-TWA-2509-0049
MEASUREMENT BY : SECOT Co., Ltd. MEASUREMENT DATE : 03/09/2025
OPERATOR : Miss Wiraya Patchimboon INSTRUMENT : Dosimeter
INSTRUMENT MODEL : Cirrus CR110A INSTRUMENT SERIAL NO. : CB1041
CALIBRATOR MODEL : Cirrus RC 110A CALIBRATOR SERIAL NO. : 95167
CALIBRATION REF. : 1,000 Hz, 114 dB CALIBRATION DATE : 21/02/2025
READING / ADJUST : 113.6 / 0.4 EXPIRE DATE : 20/02/2026
CAL SHEET NO. : NC-CIRRUS-2025-142

OPERATOR ID	LOCATION	TIME	%DOSE	SOUND PRESSURE LEVEL (dBA)	
				TWA (12 hr)	STANDARD*
2200725	Operator Production	07.57-18.58	18.1	75.9	83.0


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team

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 3. * Notification of the Department of Labour Protection and Welfare, B.E.2561 (2018).
 4. TWA means Time Weighted Average.

ภาคผนวก ง.7

ใบรับรองผลการตรวจวัดระดับความร้อนในพื้นที่ปฏิบัติงาน



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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. REFERENCE NO. : 225004-WBGT-2509-0051
(BCC2)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 03/09/2025 MODEL NO. : JT2011-E2A
SITE OPERATOR : Miss Wiraya Patchimboon SERIAL NO. : 3522210177

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{Ave}	
HRSG 11	10.30-11.00	29.2	32.4	33.2	30.3	30.6	34.0
	11.00-11.30	29.1	31.5	32.4	30.0		
	11.30-12.00	29.7	32.6	33.8	30.8		
	12.00-12.30	29.8	33.4	34.8	31.2		


(Miss Katesarin Vorradetwittaya)

Environmental Scientist


(Miss Sununta Sirawuttinanon)

Technical Management Team

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3. * WBGT standard was notified by the Ministerial Regulations of Labour, B.E.2559 (2016).

4. NWB = Natural Wet Bulb Temperature

DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

5. Work Load - Light work load = 34°C, Moderate work load = 32°C and Heavy work load = 30°C



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

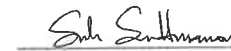
HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. REFERENCE NO. : 225004-WBGT-2509-0051
(BCC2)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 03/09/2025 MODEL NO. : JT2011-E2A
SITE OPERATOR : Miss Wiraya Patchimboon SERIAL NO. : 3522210176

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{Ave}	
HRSG 12	10.30-11.00	27.3	31.4	32.3	28.7	28.8	34.0
	11.00-11.30	27.2	30.9	32.1	28.6		
	11.30-12.00	27.1	31.6	33.2	28.8		
	12.00-12.30	27.4	32.1	33.4	29.1		


(Miss Katesarin Vorradetwittaya)

Environmental Scientist


(Miss Sununta Sirawuttinanon)

Technical Management Team

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2. This report shall not be reproduced, except in full, without official approval.

3. * WBGT standard was notified by the Ministerial Regulations of Labour, B.E.2559 (2016).

4. NWB = Natural Wet Bulb Temperature

DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

5. Work Load - Light work load = 34°C, Moderate work load = 32°C and Heavy work load = 30°C



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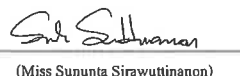
HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. REFERENCE NO. : 225004-WBGT-2509-0051
(BCC2)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 03/09/2025 MODEL NO. : JT2011-E2A
SITE OPERATOR : Miss Wiraya Patchimboon SERIAL NO. : 3522210180

LOCATION	TIME	MEASURED TEMPERATURE (°C)				STANDARD (°C) *	
		NWB	DB	GT	WBGT _{In}	WBGT _{Avg}	WBGT
Steam Turbine Generator	10.30-11.00	30.1	34.0	34.4	31.4	31.7	34.0
	11.00-11.30	30.3	34.4	34.8	31.7		
	11.30-12.00	30.2	34.8	35.1	31.7		
	12.00-12.30	30.5	34.7	35.0	31.9		


(Miss Katesarin Vorradetwittaya)

Environmental Scientist


(Miss Sununta Sirawuttinanon)

Technical Management Team

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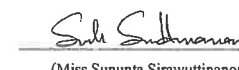
HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Bangkok Cogeneration Co., Ltd. REFERENCE NO. : 225004-WBGT-2509-0051
(BCC2)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 03/09/2025 MODEL NO. : JT2011-E2A
SITE OPERATOR : Miss Wiraya Patchimboon SERIAL NO. : 3522210179

LOCATION	TIME	MEASURED TEMPERATURE (°C)				STANDARD (°C) *	
		NWB	DB	GT	WBGT _{out}	WBGT _{Avg}	WBGT
Auxiliary Boiler	10.30-11.00	29.2	32.1	39.0	31.5	32.1	34.0
	11.00-11.30	29.0	32.9	39.8	31.6		
	11.30-12.00	29.4	33.6	44.1	32.8		
	12.00-12.30	30.1	33.7	39.4	32.3		


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ภาคผนวก ง.8

ใบรับรองผลการตรวจวัดความเข้มของแสงสว่าง
ภายในสถานประกอบการ



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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME	: Bangkok Cogeneration Co., Ltd. (BCC2)	REFERENCE NO.	: 225004-Light-2509-0052
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 03/09/2025	MODEL	: 407026
MEASUREMENT LOCATION	: Cogeneration Energy Facility, Branch 2	SERIAL NO.	: A 051050
SITE OPERATOR	: Ms. Wiraya Patchimboon		

LOCATION	DATE	TIME	LIGHT INTENSITY (LUX)			
			AVERAGE VALUE	STANDARD*	MINIMUM VALUE	STANDARD*
<u>Office 1st Floor</u>						
ห้องประชุม 3	03/09/2025	08.13	541	≥ 300	488	≥ 150
ห้องอาหาร	03/09/2025	08.11	717	≥ 300	592	≥ 150
ทางเดิน ชั้น 1	03/09/2025	08.09	235	≥ 100	128	≥ 50
<u>Office 2nd Floor</u>						
ห้องประชุม 1	03/09/2025	07.36	875	≥ 300	594	≥ 150
ห้องประชุม 2	03/09/2025	07.43	1,154	≥ 300	1,108	≥ 150
ทางเดินหน้าห้องประชุม 2	03/09/2025	08.05	485	≥ 100	430	≥ 50
ทางเดิน ชั้น 2	03/09/2025	07.47	275	≥ 100	206	≥ 50
ทางเดินหน้าบันได ชั้น 2	03/09/2025	08.06	132	≥ 100	109	≥ 50
ทางเดินหน้า CCR ชั้น 2	03/09/2025	08.08	300	≥ 100	276	≥ 50

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 3. * Notification of the Department of Labour Protection and Welfare, B.E.2561 (2018) :

The standards of light intensity in general area and process area (Table 1).



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MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 03/09/2025	MODEL	: 407026
MEASUREMENT LOCATION	: Cogeneration Energy Facility, Branch 2	SERIAL NO.	: A 051050
SITE OPERATOR	: Ms. Wiraya Patchimboon		

LOCATION	DATE	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
Office 2 nd Floor				
โต๊ะ Control Panel 1	03/09/2025	07.38	620	400-500
โต๊ะ Control Panel 2	03/09/2025	07.38	517	400-500
โต๊ะ Control Panel 3	03/09/2025	07.38	478	400-500
โต๊ะ Control Panel 4	03/09/2025	07.39	714	400-500
โต๊ะ Shift Sup.	03/09/2025	07.39	695	400-500
โต๊ะทำงาน 1 (ว่าง)	03/09/2025	07.45	401	400-500
โต๊ะทำงานคุณจุติกาญจน์	03/09/2025	07.46	406	400-500
โต๊ะทำงานคุณกิตติชัย	03/09/2025	07.47	453	400-500
โต๊ะทำงานคุณพิภพ	03/09/2025	07.48	750	400-500
โต๊ะทำงานคุณสุภักดิ์	03/09/2025	07.49	769	400-500
โต๊ะทำงานคุณทวีทรัพย์	03/09/2025	07.50	748	400-500
โต๊ะทำงานคุณสมเกียรติ	03/09/2025	07.51	558	400-500

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The standards of light intensity for employee in working area using specific sighting for working (Table 2).



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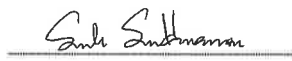
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CLIENT NAME	: Bangkok Cogeneration Co., Ltd. (BCC2)	REFERENCE NO.	: 225004-Light-2509-0052
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 03/09/2025	MODEL	: 407026
MEASUREMENT LOCATION	: Cogeneration Energy Facility, Branch 2	SERIAL NO.	: A 051050
SITE OPERATOR	: Ms. Wiraya Patchimboon		

LOCATION	DATE	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
Office 2 nd Floor (ต่อ)				
โต๊ะทำงานคุณยุทธพงษ์	03/09/2025	07.52	867	400-500
โต๊ะทำงานคุณกิตติมา	03/09/2025	07.53	448	400-500
โต๊ะทำงานคุณณัฐนิชา	03/09/2025	07.54	412	400-500
โต๊ะทำงาน 2 (ว่าง)	03/09/2025	07.55	442	400-500
โต๊ะทำงาน 3 (ว่าง)	03/09/2025	07.56	437	400-500
โต๊ะทำงาน 4 (ว่าง)	03/09/2025	07.56	471	400-500
โต๊ะทำงานคุณนพรัตน์	03/09/2025	07.57	426	400-500


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ภาคผนวก จ

ใบแสดงการตรวจเทียบเครื่องมือ

Reference No: BH-003/01/25



High Volume TSP&PM-10 Calibration Report

Date: 15-Jan-25

Ta (°C): 29

Pa (mm Hg): 760

Orifice Transfer Standard Calibration

Equipment: Orifice
 Model No: TE-5025A
 Serial No: 3674
 Manufacturer: TISCH
 Slope (m): 2.14057
 Intercept (b): -0.07783

Unit Under Test

Equipment: High-vol pump
 Model No: TE-5005X
 Serial No: BH-003

High Volume TSP&PM-10 Calibration Report

Plate	TRUE (in H ₂ O)	Indicate (X) (cm H ₂ O)	Actual Flow (Y) (cfm)	Remark
18	11.51	17.86	56.884	
13	8.66	14.33	49.512	
10	6.98	11.02	44.582	
7	4.15	6.65	34.670	
5	2.21	3.63	25.647	

Linear Regression

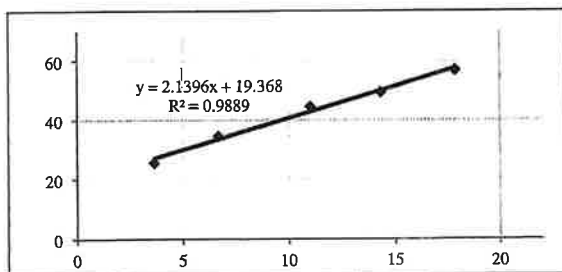
Slope: 2.1396

Intercept: 19.3682

Corr. Coeff: 0.9944

Flow PM-10: 9.6428

Flow TSP: 14.3165



Calibrated by:

Witaya Kr.

Approved by:

Reference No: BH-007/01/25



High Volume TSP&PM-10 Calibration Report

Date: 16-Jan-25

Ta (°C): 30

Pa (mm Hg): 760

Orifice Transfer Standard Calibration

Equipment: Orifice
 Model No: TE-5025A
 Serial No: 3674
 Manufacturer: TISCH
 Slope (m): 2.14057
 Intercept (b): -0.07783

Unit Under Test

Equipment: High-vol pump
 Model No: TE-5005X
 Serial No: BH-007

High Volume TSP&PM-10 Calibration Report

Plate	TRUE (in H ₂ O)	Indicate (X) (cm H ₂ O)	Actual Flow (Y) (cfm)	Remark
18	13.03	17.50	60.344	
13	10.1	13.84	53.281	
10	7.94	11.28	47.387	
7	5.12	7.37	38.305	
5	3.15	4.55	30.323	

Linear Regression

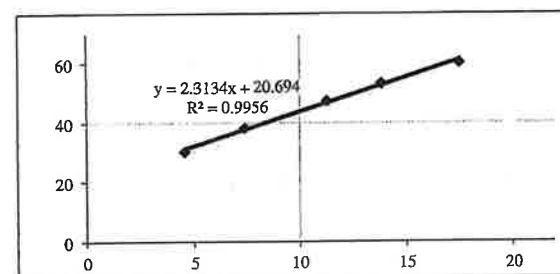
Slope: 2.3134

Intercept: 20.6942

Corr. Coeff: 0.9978

Flow PM-10: 8.3453

Flow TSP: 12.6680



Calibrated by:

Witaya Kr.

Approved by:



High Volume TSP&PM-10 Calibration Report

Date: 14-Jan-25

Ta (°C): 25

Pa (mm Hg): 762

Orifice Transfer Standard Calibration

Equipment: Orifice
 Model No: TE-5025A
 Serial No: 3674
 Manufacturer: TISCH
 Slope (m): 2.14057
 Intercept (b): -0.07783

Unit Under Test

Equipment: High-vol pump
 Model No: TE-5005X
 Serial No: BH-010

High Volume TSP&PM-10 Calibration Report

Plate	TRUE (in H ₂ O)	Indicate (X) (cm H ₂ O)	Actual Flow (Y) (cfm)	Remark
18	12.31	18.06	59.244	
13	10.1	14.83	53.784	
10	7.44	11.38	46.344	
7	4.84	7.37	37.627	
5	3.07	4.83	30.229	

Linear Regression

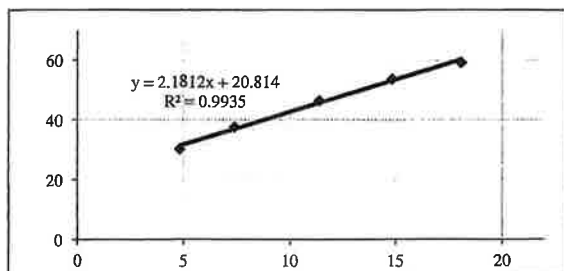
Slope: 2.1812

Intercept: 20.8142

Corr. Coeff: 0.9967

Flow PM-10: 8.7962

Flow TSP: 13.3809



Calibrated by:

Witthaya K.

Approved by:



High Volume TSP&PM-10 Calibration Report

Date: 13-Jan-25

Ta (°C): 26

Pa (mm Hg): 761

Orifice Transfer Standard Calibration

Equipment: Orifice
 Model No: TE-5025A
 Serial No: 3674
 Manufacturer: TISCH
 Slope (m): 2.14057
 Intercept (b): -0.07783

Unit Under Test

Equipment: High-vol pump
 Model No: TE-5005X
 Serial No: BH-017

High Volume TSP&PM-10 Calibration Report

Plate	TRUE (in H ₂ O)	Indicate (X) (cm H ₂ O)	Actual Flow (Y) (cfm)	Remark
18	12.78	19.96	60.203	
13	10.71	16.23	55.221	
10	8.11	12.57	48.219	
7	5.25	8.43	39.047	
5	3.29	5.13	31.178	

Linear Regression

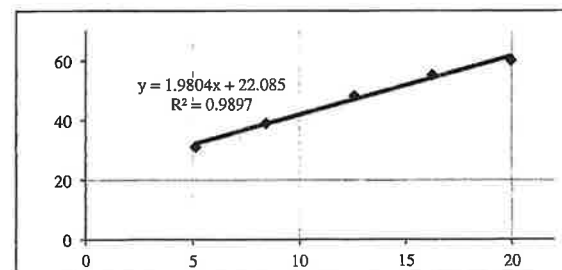
Slope: 1.9804

Intercept: 22.0853

Corr. Coeff: 0.9948

Flow PM-10: 9.0460

Flow TSP: 14.0955



Calibrated by:

Witthaya K.

Approved by:

Reference No: BH-019/01/25



High Volume TSP&PM-10 Calibration Report

Date:

13-Jan-25

Ta (°C):

21

Pa (mm Hg)

763

Orifice Transfer Standard Calibration

Equipment: Orifice
 Model No: TE-5025A
 Serial No: 3674
 Manufacturer: TISCH
 Slope (m): 2.14057
 Intercept (b): -0.07783

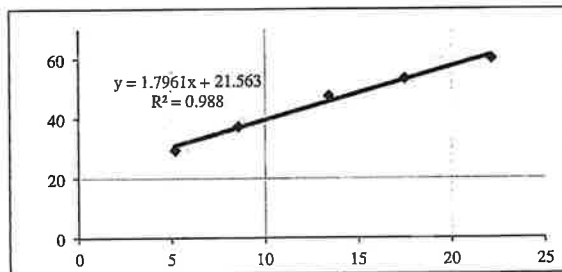
Unit Under Test

Equipment: High-vol pump
 Model No: TE-5005X
 Serial No: BH-019

High Volume TSP&PM-10 Calibration Report

Plate	TRUE (in H ₂ O)	Indicate (X) (cm H ₂ O)	Actual Flow (Y) (cfm)	Remark
18	12.48	22.12	60.077	
13	9.77	17.50	53.303	
10	7.72	13.41	47.525	
7	4.7	8.56	37.364	
5	2.87	5.18	29.478	

Linear Regression



Slope: 1.7961
 Intercept: 21.5625
 Corr. Coeff: 0.9940
 Flow PM-10: 10.2655
 Flow TSP: 15.8332

Calibrated by:

Wittaya K.

Approved by:

Reference No: BH-024/01/25



High Volume TSP&PM-10 Calibration Report

Date:

10-Jan-25

Ta (°C):

30

Pa (mm Hg)

760

Orifice Transfer Standard Calibration

Equipment: Orifice
 Model No: TE-5025A
 Serial No: 3674
 Manufacturer: TISCH
 Slope (m): 2.14057
 Intercept (b): -0.07783

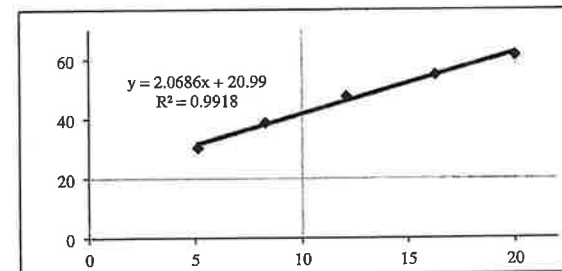
Unit Under Test

Equipment: High-vol pump
 Model No: TE-5005X
 Serial No: BH-024

High Volume TSP&PM-10 Calibration Report

Plate	TRUE (in H ₂ O)	Indicate (X) (cm H ₂ O)	Actual Flow (Y) (cfm)	Remark
18	13.53	20.02	61.466	
13	10.73	16.31	54.878	
10	7.97	12.09	47.474	
7	5.23	8.28	38.701	
5	3.15	5.13	30.323	

Linear Regression



Slope: 2.0686
 Intercept: 20.9902
 Corr. Coeff: 0.9959
 Flow PM-10: 9.1895
 Flow TSP: 14.0236

Calibrated by:

Wittaya K.

Approved by:



High Volume TSP&PM-10 Calibration Report

Date: 10-Jan-25

Ta (°C): 31

Pa (mm Hg): 760

Orifice Transfer Standard Calibration

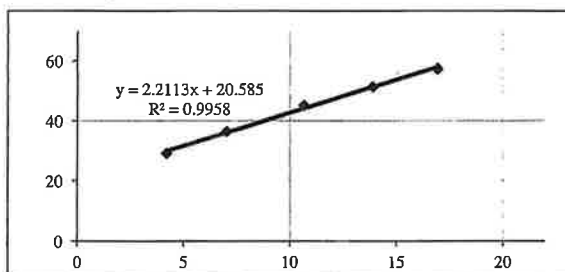
Equipment: Orifice
 Model No: TE-S025A
 Serial No: 3674
 Manufacturer: TISCH
 Slope (m): 2.14057
 Intercept (b): -0.07783

Unit Under Test

Equipment: High-vol pump
 Model No: TE-5005X
 Serial No: BH-026

High Volume TSP&PM-10 Calibration Report

Plate	TRUE (in H ₂ O)	Indicate (X) (cm H ₂ O)	Actual Flow (Y) (cfm)	Remark
18	11.84	16.94	57.490	
13	9.38	13.92	51.311	
10	7.22	10.67	45.175	
7	4.65	7.01	36.507	
5	2.9	4.22	29.101	



Calibrated by: W. H. H. H.

Approved by: [Signature]



CONTROL UNIT CALIBRATION (Metric units, mm)

Date: 9 Jan 25

Barometric press, Pb Initial Final Average
 758 758 758 mmHg

Dry Gas Meter Data

Console No. M50-09
 Metering System ID
 DGM Number 333249
 DGM Model ES-110

Reference Dry Gas Meter Data

Serial No. 358794
 Model S110
 Correction factor (Yr) 1.0077
 Last Calibration Date 25 Oct 24

Calibrated by: Montri P.

Orifice manometer setting, ΔH mm H ₂ O	Ref. DGM Volume V _r Liters	DGM Volume V _m Liters	Temperature (°C)				Time @ min	DGM Correction factor (Y)	ΔH@ mm
			Ref DGM T _r	Inlet T _i	Outlet T _o	Avg T _m			
12.5	100.1	101.3	25	25	24	24.5	8.57	0.9926	41.6238
25.0	100.2	100.4	25	25	24	24.5	6.23	1.0012	44.0131
50.0	100.1	100.5	25	25	24	24.5	4.42	0.9965	44.2732
76.0	100.2	99.7	25	25	24	24.5	3.58	1.0037	44.1905
100.0	100.3	99.6	25	25	24	24.5	3.58	1.0034	45.3098
150.0	100.3	99.2	25	25	24	24.5	2.60	1.0029	45.7895

Average 1.0000 44.2000

Approved by: [Signature]



PITOT TUBE CALIBRATION REPORT

Calibration Location: SECOT

Calibration Date : 03-01-2025

Calibration Duct No.: CD-0123

Calibration Standard Pitot tube data

Pitot No. : Std-02

Coefficient (Cp) : 0.99

Type S Pitot No. : PS20-02

Calibrated by : Mr. Montri P.

A Side Calibration

Run No.	ΔP_{std} (mm H ₂ O)	ΔP_s (mm H ₂ O)	Cp(s)	Deviation, δ Cp(s) - Cp(A)
1	15.0	20.5	0.8468	0.0000
2	15.0	20.5	0.8468	0.0000
3	15.0	20.5	0.8468	0.0000

 $C_{P(A),avg}$ 0.8468

B Side Calibration

Run No.	ΔP_{std} (mm H ₂ O)	ΔP_s (mm H ₂ O)	Cp(s)	Deviation, δ Cp(s) - Cp(B)
1	15.0	21.0	0.8367	-0.0034
2	15.0	21.0	0.8367	-0.0034
3	15.0	20.5	0.8468	0.0068

 $C_{P(B),avg}$ 0.8401 $|Cp(A) - Cp(B)| = 0.0068$ $C_{P(Avg)} = 0.8435$

Approved by :

*** δ must be ≤ 0.01 for the test to be acceptable ***
 *** $|Cp(A) - Cp(B)|$ must also be < 0.01 if average of Cp(A) and Cp(B) is to be used ***

CONTROL UNIT CALIBRATION
(Metric units, mm)

Date 9 Jan 25

Initial Final Average
 Barometric press, Pb 758 758 758 mmHg

Dry Gas Meter Data

Console No. M50-09

Serial No. 358794

Metering System ID

Model S110

DGM Number 333249

Correction factor (Yr) 1.0077

DGM Model ES-110

Last Calibration Date 25 Oct 24

Calibrated by : Montri P.

Reference Dry Gas Meter Data

Orifice manometer setting, ΔH mm H2O	Ref. DGM Volume V _r Liters	DGM Volume V _m Liters	Temperature (°C)				Time ⊙ min	DGM Correction factor (Y)	ΔH@ mm
			Ref DGM T _r	Dry Gas Meter					
				Inlet T _i	Outlet T _o	Avg T _m			
12.5	100.1	101.3	25	25	24	24.5	8.57	0.9926	41.6238
25.0	100.2	100.4	25	25	24	24.5	6.23	1.0012	44.0131
50.0	100.1	100.5	25	25	24	24.5	4.42	0.9965	44.2732
76.0	100.2	99.7	25	25	24	24.5	3.58	1.0037	44.1905
100.0	100.3	99.6	25	25	24	24.5	3.58	1.0034	45.3098
150.0	100.3	99.2	25	25	24	24.5	2.60	1.0029	45.7895

Average 1.0000 44.2000

Approved by :

Sheet No. : CAL-PI-PS10-01/2025



PITOT TUBE CALIBRATION REPORT

Calibration Location: SECOT

Calibration Date : 03-01-2025

Calibration Duct No.: CD-0123

Calibration Standard Pitot tube data

Pitot No. : Std-02

Coefficient (Cp) : 0.99

Type S Pitot No. : PS10-01

Calibrated by : Mr. Montri P.

A Side Calibration

Run No.	ΔP_{std} (mm H ₂ O)	ΔP_s (mm H ₂ O)	Cp(s)	Deviation, δ Cp(s) - Cp(A)
1	15.0	21.0	0.8367	-0.0034
2	15.0	20.5	0.8468	0.0068
3	15.0	21.0	0.8367	-0.0034

C_{P(A),AVG} = 0.8401

B Side Calibration

Run No.	ΔP_{std} (mm H ₂ O)	ΔP_s (mm H ₂ O)	Cp(s)	Deviation, δ Cp(s) - Cp(B)
1	15.0	21.0	0.8367	-0.0034
2	15.0	20.5	0.8468	0.0068
3	15.0	21.0	0.8367	-0.0034

C_{P(B),AVG} = 0.8401

| Cp(A) - Cp(B) | = 0.0000

C_{P(Avg)} = 0.8401

Approved by :

*** δ must be ≤ 0.01 for the test to be acceptable ***
 *** | Cp(A) - Cp(B) | must also be < 0.01 if average of Cp(A) and Cp(B) is to be used ***

Airgas
 an Air Liquide company

 Airgas Specialty Gases
 Airgas USA, LLC
 600 Union Landing Road
 Cinnaminson, NJ 08077-0000
 Airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number: E04NI99E15AC084

Reference Number: 82-401409170-1

Cylinder Number: EB0102326

Cylinder Volume: 144.4 CF

Laboratory: 124 - Riverton (SAP) - NJ

Cylinder Pressure: 2015 PSIG

PGVP Number: B52019

Valve Outlet: 660

Gas Code: CO,NO,NOX,SO2,BALN

Certification Date: Feb 05, 2019

Expiration Date: Feb 05, 2027

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	50.00 PPM	51.01 PPM	G1	+/- 0.9% NIST Traceable	01/28/2019, 02/05/2019
NITRIC OXIDE	50.00 PPM	50.86 PPM	G1	+/- 0.9% NIST Traceable	01/28/2019, 02/05/2019
SULFUR DIOXIDE	50.00 PPM	50.87 PPM	G1	+/- 1.0% NIST Traceable	01/28/2019, 02/05/2019
CARBON MONOXIDE	0.5000 %	0.5050 %	G1	+/- 0.7% NIST Traceable	01/31/2019
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	13080206	CC401947	4950 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Feb 15, 2019
PRM	12367	APEX1089237	9.82 PPM NITROGEN DIOXIDE/AIR	+/- 2.0%	Jun 02, 2017
NTRM	12010724	KAL004497	50.03 PPM NITRIC OXIDE/NITROGEN	+/- 0.8%	Mar 12, 2024
GMIS	1114201601	CC506710	4.971 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Nov 14, 2019
NTRM	14010327	KAL004376	49.08 PPM SULFUR DIOXIDE/NITROGEN	+/- 1.0%	Apr 17, 2024

The SRM, PRM or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Siemens Ultramat 6 J3-599 COHIGH	NDIR	Jan 18, 2019
Nicolet 6700 APW1100391 NO	FTIR	Jan 10, 2019
Nicolet 6700 APW1100391 NO2	FTIR	Jan 10, 2019
Nicolet 6700 APW1100391 SO2	FTIR	Jan 10, 2019

Triad Data Available Upon Request

PERMANENT NOTES: PRODUCED IN ACCORDANCE WITH ISO17025 REQUIREMENTS

NOTES:

Gross Weight: 27806.3 grams

Net Weight: 4733.2 grams

This calibration std. has been certified in accordance with the May 2012 EPA Traceability Protocol document EPA-600/R-12/531. All testing processes and measurements conform to the requirements of ISO/IEC 17025 and to Airgas ISO 9001:2008 and relate only to items identified on this certificate. These items are certified to be NIST Traceable with total uncertainty as detailed under Analytical Uncertainty. This document shall not be reproduced in full without written approval of the issuer.



TESTING CERT No. 3082.05

Approved for Release

Sheet No. : CR-515-2025-272



SOUND LEVEL METER CALIBRATION

Calibration Location: SECOT

Calibration Date: Oct 3, 25

ACOUSTIC CALIBRATOR

Brand	Model	Serial No.	Frequency (Hz)	Ref.Calibrated (dB)	Eff.Calibrated (dB)
Cirrus	CR:515	94296	1000.00	94.0	93.7

No.	Brand	Model	Serial No.	Reading (dB)	dB Adjust
6	Cirrus	CR161B	G301250	93.7	0.0
9	Cirrus	CR161B	G301331	93.7	0.0
10	Cirrus	CR161B	G301333	93.7	0.0
13	Cirrus	CR161B	G301354	93.7	0.0
32	Cirrus	CR161B	G302356	93.7	0.0

Calibrated by :

Approved by :

Preeda S.

CR-515-2025-272/Cal/24/10/2025

SECOT CO., LTD.
239 Rimklongprapa Rd. Bangsue, Bangkok, 10800, THAILAND
Tel: (662)959-3600 Fax: (662) 959-3535
E-Mail: envserv@secot.co.th

Sheet No. : CR-515-2025-219



SOUND LEVEL METER CALIBRATION

Calibration Location: SECOT

Calibration Date: Sep 3, 25

ACOUSTIC CALIBRATOR

Brand	Model	Serial No.	Frequency (Hz)	Ref.Calibrated (dB)	Eff.Calibrated (dB)
Cirrus	CR:515	94296	1000.00	94.0	93.8

No.	Brand	Model	Serial No.	Reading (dB)	dB Adjust
10	SCARLET	ST-21D	820731	93.8	0.0
13	SCARLET	ST-21D	821080	93.7	0.1
14	SCARLET	ST-21D	821081	93.8	0.0
15	SCARLET	ST-21D	821082	93.8	0.0

Calibrated by :

Approved by :

Sukh Suthmanan

CR-515-2025-219/Cal/06/09/2025

SECOT CO., LTD.
239 Rimklongprapa Rd. Bangsue, Bangkok, 10800, THAILAND
Tel: (662)959-3600 Fax: (662) 959-3535
E-Mail: envserv@secot.co.th



ELECTRICAL AND ELECTRONICS INSTITUTE
FOUNDATION FOR INDUSTRIAL DEVELOPMENT

975 Moo 4, Bangpoo Industrial Estate, Soi 8, Sukhumvit Road km 37,

Phraek Sa, Mueang Samut Prakan, Samut Prakan 10280

Tel: +66 2709 4860 Fax: +66 2324 0917



Certificate No.: CP20250074EA
Operation No.: CP2025020068

Certificate of Calibration

Equipment: Sound Calibrator
Manufacturer: Cirrus Research Plc
Model/Type: CR:515
Serial No.: 94296
ID No.:
Customer: SECOT Co.,Ltd.
Address: 239 Rimklongprapa Rd., Bangsue,
Bangkok 10800 Thailand
Received Date: 19 February 2025
Calibrated Date: 27 February 2025
Issued Date: 28 February 2025
Calibrated by: Ms. Juntaporn Kunhakom

Approved by:

(Mr. Sittichai Swaksuriyawong)
Group Manager

This report was prepared electronically using applicable electronic signature. Printing or copy of file are considered as a copy of the document.

The reported uncertainty of measurement was based on standard uncertainty multiplied by a coverage factor (k) providing a level of confidence of approximately 95%. This certificate may not be reproduced other than in full except with the prior written approval of the Electrical and Electronics Institute, Foundation for Industrial Development.



ELECTRICAL AND ELECTRONICS INSTITUTE
FOUNDATION FOR INDUSTRIAL DEVELOPMENT

Certificate No.: CP20250074EA

Calibration Report

Equipment: Sound Calibrator
Manufacturer: Cirrus Research Plc
Model/Type: CR:515
Serial No.: 94296
ID No.:
Ambient Temperature: (23 ± 2) °C
Relative Humidity: (50 ± 15) %
Pressure: (101.3 ± 1.5) kPa
Method of Calibration :-
IEC 60942:2017

Condition of this result of calibration

1. Reference standards instrument :-

Instrument	Model	Serial No.	Cert. No.	Due Date
1) Standard microphone	4180	2661000	AA-1007-24	6 June 2025
2) Waveform Generator	33511B	MY52302264	CK20240047EA	23 June 2025
3) Audio Analyzing DMM	2015-P	4079144	E1U2402195	23 May 2025
4) Pressure humidity and Temperature Transmitter	PTU301	F0640002	CL1-P240022 CD20240180EA	20 March 2025 7 August 2025

2. This result of calibration was found accurate as shown on date and place of calibration only.

3. This certification is traceable to the international system of unit maintained at :-

Reference standards instrument for Acoustic function

- National Institute of Metrology (Thailand)

Reference standards instrument for Electrical function

- Electrical and Electronics Institute; NSC Accredited Calibration No.0119

- NA Caltechnologies Co., Ltd.; ANAB Accredited Calibration No.AC-2658.

Result of Calibration:-

1. Function : Sound pressure level

Normal	Specified Sound	Measured value	Deviated value ^[1]	Acceptance limit ^[3]
Frequency (Hz)	Pressure level (dB)	(dB)	(dB)	(dB)
1000	94	93.86	-0.14	± 0.25

2. Function : Frequency

Normal Sound	Specified Frequency	Measured value	Deviated value ^[2]	Acceptance limit ^[3]
Pressure level (dB)	(Hz)	(Hz)	(%)	(%)
94	1000	1000.34	0.03	± 0.70

Certificate No.: CP20250074EA

Calibration Report

3. Function : Total distortion + noise

Normal Sound Pressure Level (dB)	Normal Frequency (Hz)	Measured value ^[4] (%)	Acceptance limit ^[5] (%)
94	1000	0.72	2.50

Uncertainty of measurement

Function	Uncertainty	Maximum-permitted uncertainty of measurement
Sound pressure level	0.10 dB	0.15 dB
Frequency	0.10 %	0.20 %
Total distortion + noise	0.40 %	0.50 %

- Note:
- [1] The deviated value is the absolute value of the difference between the measured value and the corresponding specified sound pressure level.
 - [2] The deviated value is the absolute value of the difference in percent between the measured value and the corresponding specified frequency.
 - [3] The acceptance limit is for the deviated value.
 - [4] The measured value is the total distortion + noise, measured over the frequency range from 20 Hz to 20 kHz.
 - [5] The acceptance limit is for the Measured value.

- Remarks:
- 1. Acceptance limit was IEC 60942:2017 Class 1.
 - 2. Maximum-permitted uncertainty of measurement was IEC 60942:2017 Class 1.
 - 3. The coverage factor $k = 2.00$

-- End of Report --

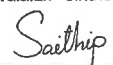


TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert.No.: 25CH1009
Page.: 1 of 3

Equipment :	pH Meter
Manufacturer :	Mettler Toledo
Model :	Seven2Go
Serial No. :	B924795409
ID No. :	ID.12
Condition As-Received:	Used Item
Received Date :	26 August 2025
Calibration Date :	27 August 2025
Reference :	2508-0784DN-3
Submitted by :	Secot Co.,Ltd. 239 Rimklongprapa Road, Bangsue, Bangkok 10800
Ambient Temperature :	(25 ± 2.5) °C
Relative Humidity :	(50 ± 15) %
Calibration Procedure :	In - house method : - CP-CH5 by direct measurement with DC voltage standard and direct measurement with certified reference material (CRM) - CP-CH8 by comparison with temperature standard
Calibrated by :	Walalak Sirithean
Approved by :	 Approved Signatory
() Chakrit Waewwanjua () Ponpan Paipim (✓) Saitthip Meangmai	
Issue Date :	28 August 2025

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Cert.No.: 25CH1009
Page.: 2 of 3

Condition of this calibration result

1. Reference Standard Instrument

Instrument	Serial No.	ID No.	Cert. No.	Due Date
1) Document Process Calibrator	58440003	130RC120	24E3731	25 Nov 2025
2) Ref. Standard Thermometer	4982054	110RC044	25I708	03 July 2026

- This measurement result is traceable to SI through Technology Promotion Association (Thailand - Japan)

2. Certified Reference Materials : The measurement results are traceable to SI through CPA chem Ltd.,
ANSI-ASQ National Accreditation Board, Accredited No. AR-1835

Buffer Solution	Manufacturer	Lot No.	Exp. date
pH 4.007	CPA chem	1114384	12 June 2027
pH 6.987	CPA chem	1034204	27 Sep 2025
pH 10.010	CPA chem	1114385	08 June 2026

3. This certificate is valid only to the item calibrated on date and place of calibration.

Calibration Results

Function : mV Measurement

Performing standard curve by Document Process Calibrator at pH (4,7,10)

Unit Under Calibration	Nominal Value	Standard Voltage Input	Actual Reading		Uncertainty of Measurement (\pm mV)	Coverage factor <i>k</i>
	pH	mV	mV	pH		
pH Meter S/N.: B924795409	4.00	177.48	177	4.00	0.58	2.00
	7.00	0.00	0	7.00	0.58	2.00
	10.00	-177.48	-177	10.00	0.58	2.00



Cert.No.: 25CH1009
Page.: 3 of 3

Calibration Results

Function : pH Measurement

Performing three buffers standard curve by using buffer nominal pH (4,7,10)

Unit Under Calibration	Standard pH Buffer Solution	Actual pH Reading	Actual mV Reading (mV)	Uncertainty of pH Measurement (\pm)	Coverage factor <i>k</i>
pH Electrode S/N.: 4320459	4.007	4.02	182	0.0071	2.00
	6.987	7.00	6	0.0095	2.00
	10.010	10.01	-167	0.0092	2.00

Function : Temperature Measurement

(*) Without adjustment

This equipment was connected with Temperature Probe;

- Model : InLab Expert Go
- Serial No. : 4320459
Dimension of probe
- Length : 120 mm.
- Diameter : 12 mm.
- Immersion Depth : 100 mm.

Calibration Point (°C)	Standard Temperature (°C)	UUC* Reading (°C)	Error (°C)	Uncertainty of measurement (\pm °C)	Coverage factor <i>k</i>
25.0	24.999	25.1	0.101	0.13	2.00
30.0	30.001	30.2	0.199	0.13	2.00
35.0	35.001	35.2	0.199	0.13	2.00

Remark - UUC* = Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

-000-


Calibration Certificate

Certificate No.: 2503897-002-01
Client name: SECOT CO., LTD.
Address: 239 Rimklongprapa Road,
Bangsue, Bangsue, Bangkok 10800

Page 1 of 3

Equipment: Water Bath
Manufacturer: MEMMERT
Model: WB 29
Serial No.: I698.0051
ID No.: N/A
Order No.: 2503897
Operation No.: 2503897-002
Date of Receipt: 14 July 2025
Date of Calibration: 14 July 2025

Calibrated by Mr.Yothin Charoensuk
Scientist

Approved by 
(Mr.Pheraphat Tuanjit)
Manager, Division of Calibration Laboratory
Responsible for the Technical Management Team

Date of Issue: 17 July 2025

The uncertainties are for a confidence probability of approximately 95 %.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standards laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the National Food Institute.

F-CS-009 Revision: 01 Date: 20-04-65



Calibration Report

Certificate No.: 2503897-002-01
Equipment: Water Bath
Model: WB 29 Serial No.: I698.0051
Resolution: 0.1 °C ID No.: N/A
Manufacturer: MEMMERT
Date of Calibration: 14 July 2025

Page 2 of 3

Location: Laboratory, SECOT CO., LTD.
Environment Condition: Ambient Temperature (31 ± 1) °C
Relative Humidity (61 ± 1) %
Line Voltage (228 ± 3) Volt

Condition of this results of Calibration:

- This Instrument was calibrated by insert 5 standard thermometer into its liquid bath and calibration according to W-TE-011 based on ASTM E715-80 (Re-approved-2016): Standard Specification for Gravity-Convection and Forced-Circulation Water Baths.
- The temperature scale used is ITS - 90.
- All data show below were final values and the initial data may be obtained upon request.
- Reference Standard Instrument :

Instrument	Model	Serial No./ID No.	Certificate No.	Due Date	Through
Digital Thermometer with sensor	34972A	MY57003188	2503175-002	2-Jun-26	NATIONAL FOOD INSTITUTE
	RTD	RTD#301-305 / CH#301-305			

- This certificate is traceable to International System of Units (SI Units).
- This certificate was certified only for the instrument we calibrated.
- This result of calibration was found accurate as shown on date and place of calibration only.
- Condition of Calibrated item : Good
UUC Description:

Time of Record 1 Hour 9 Minute At 95.0 °C

- Result of Calibration : ☒ Without adjustment
☐ After adjustment

F-CS-012 Revision: 01 Date: 20-04-65




Calibration Report

Certificate No.:	2503897-002-01		
Equipment:	Water Bath		
	Model: WB 29	Serial No.: I698.0051	
	Resolution: 0.1 °C	ID No.:	N/A
	Manufacturer: MEMMERT		
Date of Calibration:	14 July 2025		

Page 3 of 3

Calibration point: 95.0 °C

Calibration result:

Calibration Condition	Temperature (°C)	Relative Humidity (%)	Line Voltage (Volt)
Min	29.6	62	225.0
Max	32.3	60	230.0

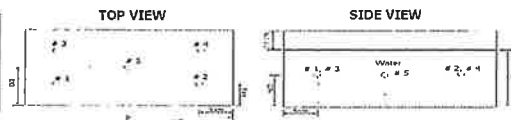


Table1 : Reporting of Temperature

Sensor Installation Location

Calibration Point (°C)	Measured Temperature (°C) @ Sensor No. (Sensor No.5 is REF)					Uncertainty ± (°C)
	# 1	# 2	# 3	# 4	# 5	
95.0	95.15	95.11	95.14	94.96	94.99	0.36

Table 2 : Reporting of Characterization Result

UUC* Setting (°C)	UUC* Reading (°C)			Stability ± (°C)	Uniformity (°C)	Overall Variation (°C)
	MIN	MAX	Average			
95.0	94.9	95.2	95.0	0.21	0.16	0.58

Note The quoted uncertainty include " Stability " and " Loading effect (20% of Temp Uniformity)"

UUC* = Unit Under Calibration

Stability = One-half of the greatest maximum difference of measured temperatures at any one sensors, for at least half an hour after reaching steady state.

Uniformity = The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time.

Overall Variation = The difference of the maximum and minimum measured temperatures throughout observation time.

The report uncertainty of measurement was based on standard uncertainty multiplied by coverage factor $k=2$, providing a level of confidence of approximately 95 %.

----- End -----

F-CS-012 Revision: 01 Date: 20-04-65



THAI CALIBRATION SERVICES CO., LTD.

19/8 Moo 9 Soi Raiking 30 Puttlanonton 5 Rd., Sampran, Nakornpatom 73210

Tel. 0-3439-7682-5 Fax: 0-3439-7687

www.thaical.com E-mail : sale@thaicalibration.com, lab@thaicalibration.com

NSC-TISI-TIS 170
CALIBRATION 01

CALIBRATION CERTIFICATE

Certificate No.S2504633S

page 1 of 2

Customer :	SECOT CO., LTD. 239 Rimklongprapa Rd., Bangsue, Bangkok 10800		
Equipment :	Non-automatic weighing instrument (Electronic instrument)		
Manufacturer :	Mettler Toledo	Order No. :	68S1723-1
Model :	AG245	Ambient temperature :	(25.3 ± 5.0) °C
Accuracy class :	-	Relative humidity :	(39.9 ± 10.0) %
Capacity :	41 g ; 210 g	Received date :	23-Apr-2025
Resolution :	0.00001 g / 0.0001 g	Date of calibration :	23-Apr-2025
Serial No. :	1117293916	Date of issue :	24-Apr-2025
ID No. :	-	Condition of the balance :	Good working conditions
Place of calibration :	LAB		

Calibration method

^aThis instrument was calibrated according to the EURAMET Calibration Guide No. 18.

Condition of reference standard weight

<u>Instrument</u>	<u>Nominal value</u>	<u>Serial No.</u>	<u>Certificate No.</u>	<u>Due-date</u>	<u>Density (kg/m³)</u>
1 Standard weight set	1 mg to 2 kg	15885+15849	M2410001S	5-Oct-2025	7950

Traceability of the reference standard weight

This certificate is traceable to SI unit through Mass Calibration Laboratory Thai Calibration Services Co., Ltd., NSC-ONSC accredited no. Calibration 0189.

Calibrated By

Teerawat Intanom

Technician

Approved Signatory :

Somwang Wongduang

This calibration certificate may not be reproduced other than in full,
except with the prior written approval of the head of TCS calibration laboratory.

TCS-F-138 Issue 01/Rev.01/12 Jun 2023

NO. 32971



THAI CALIBRATION SERVICES CO., LTD.

19/8 Moo 9 Soi Raiking 30 Puttamonthon 5 Rd., Sampran, Nakornpatom 73210

Tel: 0-3439-7682-5 Fax: 0-3439-7687

www.thaicat.com E-mail : sale@thaicalibration.com, lab@thaicalibration.com



CALIBRATION CERTIFICATE

Certificate No.S2504633S

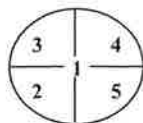
page 2 of 2

The repeatability of indication

Nominal Value (g)	Standard Deviation of reading (g)	Maximum difference between successive reading (g)	n
-10	0.000008	0.00002	5
200	0.00000	0.0000	5

The effect of eccentric application of a load on the indication (test load : 100 g)

Position	Balance Reading (g)
Point 1	100.0000
Point 2	100.0000
Point 3	100.0000
Point 4	100.0000
Point 5	99.9997
Eccentric Value	0.0003



The error of indication

Nominal Value (g)	Value of Reference Standard Weight (g)	Balance Reading (g)	Correction (g)	Uncertainty (g)	k
Unload	0.00000	0.00000	0.00000	0.000024	2.52
0.5	0.50000	0.49997	+0.00003	0.000028	2.13
1	1.00000	1.00000	0.00000	0.000030	2.08
10	9.99999	10.00000	-0.00001	0.000050	2.00
20	19.99999	19.99998	+0.00001	0.000068	2.00
40	39.99994	39.99999	-0.00005	0.00014	2.00
60	60.00000	60.00000	0.00000	0.00017	2.00
80	79.99999	80.00000	-0.00001	0.00023	2.00
100	100.00000	100.00000	0.00000	0.00022	2.00
120	120.00000	120.00000	0.00000	0.00028	2.00
140	140.00000	139.99999	+0.00001	0.00034	2.00
160	160.00000	160.00000	0.00000	0.00036	2.00
180	180.00000	179.99999	+0.00001	0.00043	2.00
200	200.00002	200.00000	+0.00002	0.00041	2.00

Remark : Adjustment, 1 standard weight nominal value 200 g, Standard weight of Lab

Uncertainty of measurement

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor (k), which for a normal distribution corresponds to a coverage probability of approximately 95% (confidence level).

This report will certify of the calibrated equipment only.

--End--



Request Service No.128/68

Page 1 of 3

Calibration Certificate

Nomenclature : Brand : Sartorius Type : Top-Loading Electronic Balance

Model : BSA224S-CW Serial No. : 32191636

Submitted by : Laboratory of SECOT CO., LTD.

Location of Calibration : BAL Room , 6th Floor, Secot Co., Ltd.

Calibration range : 0 – 200 g Scale division : 0.0001 g (220 g)

Calibration date : May 22,2025

Reference Standard M2402083S,M2502078S,M2403062N,M2502079S

Traceable to : Thai Calibration Services CO., LTD.

Ambient Condition : Temperature 24.42-25.02 °C

Humidity 49.2-51.2 % RH

Calibrated By : *Khemchuda Insorn*

Approved By : *Narisa Poowasanpetch*

(Miss Khemchuda Insorn)

(Miss Narisa Poowasanpetch)

Testing Officer

Chief of Technical Management

Date : *23/05/2025*

Date : *23/05/2025*

Issued Date : May 23,2025

Measurement Report

Request Service No.128/68

Page 2 of 3

Description : Brand : Sartorius

Type : Top-Loading Electronic Balance

Model : BSA224S-CW

Serial No. : 32191636

Calibration range : 0 – 200 g

Scale division : 0.0001 g (220 g)

Calibration date : May 22,2025

Ambient Condition : Temperature 24.42-25.02 °C Relative humidity 49.2-51.2 % RH

Measurement data :

1. Repeatability of Reading :

Load (g)	Standard Deviation of Reading (g)	Maximum Difference between Successive Reading (g)
50	0.00007	0.0002
100	0.00005	0.0002
150	0.00005	0.0001
200	0.00005	0.0001

2. Off-Center Loading :

A Mass of 50.0000 g was placed and moved to various position on the pan.

Unit : g

Center	Front	Left	Back	Right	Center	Maximum Difference
49.99990	49.99986	49.99990	49.99984	49.99984	49.99990	0.00006

Issued Date : May 23,2025

Request Service No. 128/68

Page 3 of 3

3. Departure from Nominal Value :

Reading (g)	Correction (g)	Uncertainty (+/- g)
0	0.00000	± 0.00007
1	+ 0.00003	± 0.00007
5	+ 0.00010	± 0.00010
10	+ 0.00004	± 0.00008
20	+ 0.00009	± 0.00010
40	+ 0.00002	± 0.00010
60	+ 0.00010	± 0.00011
80	+ 0.00013	± 0.00014
100	+ 0.00018	± 0.00016
120	+ 0.00019	± 0.00018
140	+ 0.00018	± 0.00020
160	+ 0.00017	± 0.00022
180	+ 0.00015	± 0.00024
200	+ 0.00019	± 0.00027

Calibrated by :

(Miss Khemchuda Insorn)

Testing Officer

Date : 23/05/2025

Approved By :

(Miss Narisa Poowasanpetch)

Chief of Technical Management

Date : 23/05/2025

Issued Date : May 23,2025

CERTIFICATE OF CALIBRATION

ISSUED BY **Noisemeters**

DATE OF ISSUE **26 February 2025** CERTIFICATE NUMBER **234084**

NoiseMeters

NoiseMeters
Acoustic House
Bridlington Road
Hunmanby
YO14 0PH
United Kingdom
www.noisemeters.com

Page 1 of 2

Approved signatory
N.Smith
Electronically signed:



doseBadge Reader : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: RC:110A

Serial number: 95167

Class: 2

Test summary

Date of calibration: 21 February 2025

The doseBadge reader detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK:224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

The doseBadge Reader has been shown to conform to the Class 2 requirements for periodic testing, described in Annex B of IEC 60942:2003 for the sound pressure level(s) and frequency(ies) stated, for the environmental conditions under which the tests were performed.

However, as public evidence was not available, from a testing organisation responsible for pattern approval, to demonstrate that the model of doseBadge Reader conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, no general statement or conclusion can be made about conformance of the doseBadge Reader to the requirements of IEC 60942:2003.

Notes:

This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

CERTIFICATE OF CALIBRATION

Certificate Number:

234084

Page 2 of 2

Environmental conditions

The following conditions were recorded at the time of the test:

Before	Pressure: 99.38 kPa	Temperature: 25.0 °C	Humidity: 40.4 %
After	Pressure: 99.39 kPa	Temperature: 25.1 °C	Humidity: 37.9 %

Test equipment

Equipment	Manufacturer	Model	Serial number
Distortion Meter	Keithley	2015	1063074
Environmental Monitor	Comet	T7510	21962628

Initial Acoustic Results

	Expected	Sample 1	Sample 2	Sample 3	Average	Deviation	Tolerance	Uncertainty
Level (dB)	114.00	113.79	113.78	113.79	113.79	-0.21	±0.75	0.11 dB
Distortion (%)	< 4.00	1.52	0.51	0.51	0.84	0.84	+4.00	0.13 %
Frequency (Hz)	1000.0	990.4	990.4	990.3	990.4	-9.6	±20.0	0.1 Hz

The measured quantities or deviations (as applicable), extended by the expanded combined uncertainty of measurement, must not exceed the corresponding tolerance.

Adjusted Acoustic Results

	Expected	Sample 1	Sample 2	Sample 3	Average	Deviation	Tolerance	Uncertainty
Level (dB)	114.00	113.97	113.97	113.97	113.97	-0.03	±0.75	0.11 dB
Distortion (%)	< 4.00	0.51	0.50	0.51	0.51	0.51	+4.00	0.13 %
Frequency (Hz)	1000.0	990.3	990.3	990.3	990.3	-9.7	±20.0	0.1 Hz

Functionality Results

Function	Result
Keypad	Pass
Battery Power	Pass
Display	Pass
Communication	Pass
2 way IR link	Pass
Clock	Pass

End of results

Instrument information

JANTYTECH
聚通科技

Name **WET BULB GLOBE TEMPERATURE (WBGT)METER**

SeriesNo **3522210176**

Type **JT2011-E2A**

Customer **SECOT CO., LTD.**

Address **239 Rim Klong Prapa Road, Bang Sue, Bang Sue, Bangkok 10800**

Integrity check of instrument

Appearance	✓
Parts integrity	✓
Screen display or touch	✓
Instrument button	✓
Power supply	✓
battery	✓
Data storage and export	✓
Deviation degree of comparison test with standard instrument	✓

Calibration Results

UUC Sensor	Standard Temperature (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (±°C)
WET	25.0	24.9	0.1	0.2
	30.0	29.8	0.2	0.2
	35.0	35.1	-0.1	0.2
	40.0	40.1	-0.1	0.2
	45.0	45.2	-0.2	0.2
DRY	25.0	25.1	-0.1	0.2
	30.0	30.2	-0.2	0.2
	35.0	35.2	-0.2	0.2
	40.0	39.8	0.2	0.2
	45.0	44.8	0.2	0.2
GLOBE	25.0	24.9	0.1	0.2
	30.0	29.8	0.2	0.2
	35.0	35.1	-0.1	0.2
	40.0	39.9	0.1	0.2
	45.0	44.8	0.2	0.2

Environmental conditions: temperature: 26 °C±2°C, relative humidity: 30% RH±10RH%

Reference Standard : Standard Mercury Thermometers, Manufacturer: BGRI, Model: STA, SN : 2-56,
Calibrated Date : 20 February 2023, Calibration Certificate No. : RA21H-AB1000009

This Certificate is traceable to NCMT North China, Certificate No.: RA20J-AK0000073

Calibration Engineer : 

Date : January 15, 2025

Instrument information

JANTYTECH
聚通科技

Name **WET BULB GLOBE TEMPERATURE (WBGT)METER**

SeriesNo **3522210177**

Type **JT2011-E2A**

Customer **SECOT CO., LTD.**

Address **239 Rim Klong Prapa Road, Bang Sue, Bang Sue, Bangkok 10800**

Integrity check of instrument

Appearance	✓
Parts integrity	✓
Screen display or touch	✓
Instrument button	✓
Power supply	✓
battery	✓
Data storage and export	✓
Deviation degree of comparison test with standard instrument	✓

Calibration Results

UUC Sensor	Standard Temperature (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (±°C)
WET	25.0	25.1	-0.1	0.2
	30.0	30.2	-0.2	0.2
	35.0	34.9	0.1	0.2
	40.0	39.8	0.2	0.2
	45.0	44.9	0.1	0.2
DRY	25.0	25.1	-0.1	0.2
	30.0	30.2	-0.2	0.2
	35.0	34.9	0.1	0.2
	40.0	39.8	0.2	0.2
	45.0	44.8	0.2	0.2
GLOBE	25.0	25.1	-0.1	0.2
	30.0	30.2	-0.2	0.2
	35.0	34.9	0.1	0.2
	40.0	40.2	-0.2	0.2
	45.0	45.1	-0.1	0.2

Environmental conditions: temperature: 26 °C±2°C, relative humidity: 30% RH±10RH%

Reference Standard : Standard Mercury Thermometers, Manufacturer: BGRI, Model: STA, SN : 2-56,
Calibrated Date : 20 February 2023, Calibration Certificate No. : RA21H-AB1000009

This Certificate is traceable to NCMT North China, Certificate No.: RA20J-AK0000073

Calibration Engineer : 

Date : January 15, 2025

Instrument information



Name	WET BULB GLOBE TEMPERATURE (WBGT)METER
Series No	3522210179
Type	JT2011-E2A
Customer	SECOT CO., LTD.
Address	239 Rim Klong Prapa Road, Bang Sue, Bang Sue, Bangkok 10800

Integrity check of instrument

Appearance	✓
Parts integrity	✓
Screen display or touch	✓
Instrument button	✓
Power supply	✓
battery	✓
Data storage and export	✓
Deviation degree of comparison testwith standard instrument	✓

Calibration Results

UUC Sensor	Standard Temperature (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (± °C)
WET	25.0	24.8	0.2	0.2
	30.0	30.1	-0.1	0.2
	35.0	34.8	0.2	0.2
	40.0	40.1	-0.1	0.2
	45.0	45.1	-0.1	0.2
DRY	25.0	25.1	-0.1	0.2
	30.0	29.9	0.1	0.2
	35.0	35.1	-0.1	0.2
	40.0	40.2	-0.2	0.2
	45.0	44.8	0.2	0.2
GLOBE	25.0	24.8	0.2	0.2
	30.0	29.8	0.2	0.2
	35.0	34.8	0.2	0.2
	40.0	40.1	-0.1	0.2
	45.0	45.2	-0.2	0.2

Environmental conditions: temperature: 26 °C±2°C, relative humidity: 30% RH±10RH%

Reference Standard : Standard Mercury Thermometers, Manufacturer: BGRI, Model: STA, SN : 2-56,
Calibrated Date : 20 February 2023, Calibration Certificate No. : RA21H-AB1000009

This Certificate is traceable to NCMT North China, Certificate No.: RA20J-AK000073

Calibration Engineer :

Date : January 15, 2025



Instrument information



Name	WET BULB GLOBE TEMPERATURE (WBGT)METER
Series No	3522210180
Type	JT2011-E2A
Customer	SECOT CO., LTD.
Address	239 Rim Klong Prapa Road, Bang Sue, Bang Sue, Bangkok 10800

Integrity check of instrument

Appearance	✓
Parts integrity	✓
Screen display or touch	✓
Instrument button	✓
Power supply	✓
battery	✓
Data storage and export	✓
Deviation degree of comparison testwith standard instrument	✓

Calibration Results

UUC Sensor	Standard Temperature (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (± °C)
WET	25.0	25.1	-0.1	0.2
	30.0	29.8	0.2	0.2
	35.0	34.9	0.1	0.2
	40.0	39.8	0.2	0.2
	45.0	45.1	-0.1	0.2
DRY	25.0	25.1	-0.1	0.2
	30.0	30.2	-0.2	0.2
	35.0	35.2	-0.2	0.2
	40.0	39.8	0.2	0.2
	45.0	44.9	0.1	0.2
GLOBE	25.0	24.9	0.1	0.2
	30.0	29.9	0.1	0.2
	35.0	34.8	0.2	0.2
	40.0	40.2	-0.2	0.2
	45.0	45.2	-0.2	0.2

Environmental conditions: temperature: 26 °C±2°C, relative humidity: 30% RH±10RH%

Reference Standard : Standard Mercury Thermometers, Manufacturer: BGRI, Model: STA, SN : 2-56,
Calibrated Date : 20 February 2023, Calibration Certificate No. : RA21H-AB1000009

This Certificate is traceable to NCMT North China, Certificate No.: RA20J-AK000073

Calibration Engineer :

Date : January 15, 2025



**INTERNATIONAL TESTING SERVICE CO., LTD**1213/388 Ladprao 94 Ladprao Rd. Wangtonglang Bangkok 10310
Tel 0-2559-2095 Fax 0-2559-2096E-mail : sale@itest-lab.com web site : www.itest-lab.com

CALIBRATION CERTIFICATE

Issued date: 30 January 2025

Client Name : **SECOT CO., LTD.**

Address : 239 Rimklongprapa Rd., Bangsue, Bangkok 10800 Thailand.

Request No: **C-2501 - 026**Laboratory No.: **CAL- 026**

Date of Request: 27 January 2025.

Date of Calibration: 29 January 2025.

1. Unit Under Calibration (UUC) :

Nomenclature : Digital Light Meter

Serial No.: A 051050

Maker : EXTECH

Model : 407026

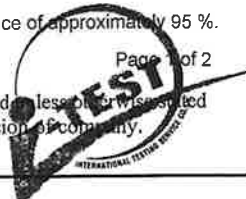
2. Place of Calibration: Photometry Standard Laboratory, INTERNATIONAL TESTING SERVICE CO., LTD.**3. Range of Calibration:** 1 Range**4. Condition of Laboratory:** Ambient temperature: $(25 \pm 2) ^\circ\text{C}$ and relative humidity $(60 \pm 20) \%$.**5. Reference Standard:** Standard Tungsten Halogen Lamp, Serial No.: 504011, which was calibrated on 22 April 2024, can be traceable to International System of Unit (SI) through National Institute of Metrology (Thailand), Certificate No.: TP-1014-24.**6. Support Equipment:**

1. Photometric bench, 6.3 meter long.
2. DC. power supply, Serial No.: EJ 19A 009, Model: GPR-25H 300, Maker: GW INSTEK.
3. Digital Multimeter, Model: 34401A, S/N: MY44011212 and MY44011215.
4. Foot Candle / Lux Meter, Model: 407026, S/N: Q 558437, Maker: EXTECH.

7. Calibration Procedure:

The measurement was done in accordance with WI-CP-01. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95 %.

The Results shown in this certification report refer only to the equipment(s) calibrated unless otherwise stated. This Calibration Certificate cannot be reproduced, except in full, without permission of company.

**INTERNATIONAL TESTING SERVICE CO., LTD**1213/388 Ladprao 94 Ladprao Rd. Wangtonglang Bangkok 10310
Tel 0-2559-2095 Fax 0-2559-2096E-mail : sale@itest-lab.com web site : www.itest-lab.comRequest No: **C-2501 - 026**

Serial No.: A 051050

Laboratory No.: **CAL - 026****Results :**

UUC Range	Standard (lx)	UUC Reading (lx)		Correction (lx)	Uncertainty of Measurement (\pm lx)
		Before adjust	After adjust		
2000	0	0	0	0	0.60
	100	96	99	1	2.1 % of Reading
	500	480	501	-1	
	1000	960	1002	-2	
	1500	1448	1507	-7	
	1900	1836	1911	-11	

Note : 1. The results relate only to the items calibrated.
2. Zero adjust before used.

Calibration result approved by

(Mr. Yuthana Tholueng)Approved on behalf of
International Testing Service Co., Ltd
(Mr. Pichit Vivat-Anant)
Managing Director

Page 2 of 2

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