

ภาคผนวก ง

ใบรับรองผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

คุณภาพอากาศในบรรยากาศ



Meteorological Monitoring Results : Wind Rose MTR-RW Cogen

Location : Ban Hat Samran Health Promotion Hospital

Monitor period : 12-19 Nov 2025

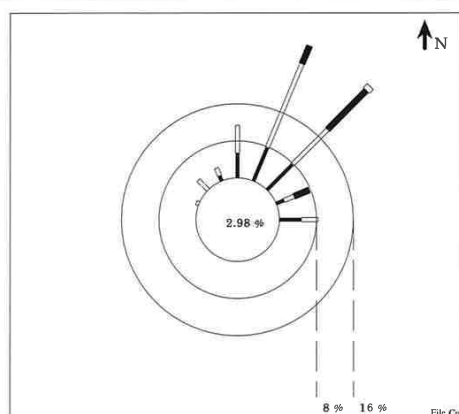
Wind Speed Model : Scarlet WS-21

Serial No : AD:67

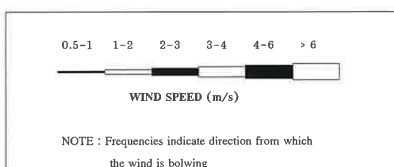
Wind Direction Model : Scarlet WS-21

Serial No : AD:67

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	0.0536	0.0595	0.0000	0.0000	0.0000	0.0000	0.1131
NNE	0.0774	0.1964	0.0417	0.0000	0.0000	0.0000	0.3155
NE	0.0774	0.1071	0.1190	0.0119	0.0000	0.0000	0.3155
ENE	0.0179	0.0238	0.0357	0.0000	0.0000	0.0000	0.0774
E	0.0476	0.0357	0.0000	0.0000	0.0000	0.0000	0.0833
ESE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
NW	0.0000	0.0298	0.0000	0.0000	0.0000	0.0000	0.0298
NNW	0.0119	0.0179	0.0000	0.0000	0.0000	0.0000	0.0298
CALM	0.0298						



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With
Calm Wind < 0.5 m/sData Unit : Direction in Deg.
Wind Speed in m/sNOTE : Frequencies indicate direction from which
the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-225011-Ban Hat Samran Health Promotion Hospital 12-19 Nov 2025

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

Meteorological Monitoring Results : Wind Rose MTR-RW Cogen

Location : Ban Hat Samran Health Promotion Hospital

Monitor period : 12-19 Nov 2025

Wind Speed Model : Scarlet WS-21

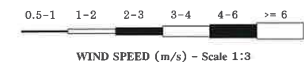
Serial No : AD:67

Wind Direction Model : Scarlet WS-21

Serial No : AD:67

Time	12-13 Nov 2025		13-14 Nov 2025		14-15 Nov 2025		15-16 Nov 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	1.8	NE	2.3	NNE	1.8	NNE	2.5	NE
11:00 - 12:00	2.0	NNE	2.3	NNE	2.0	NNE	2.6	NE
12:00 - 13:00	1.4	NNE	1.9	NE	2.4	NE	2.9	NE
13:00 - 14:00	1.0	NE	2.1	NE	2.4	NNE	3.1	NE
14:00 - 15:00	1.2	N	1.5	NNE	2.2	NE	2.7	NE
15:00 - 16:00	1.1	NNE	1.1	NE	2.1	NE	2.5	NE
16:00 - 17:00	0.7	N	1.3	NNE	1.7	NE	1.9	NE
17:00 - 18:00	0.5	N	1.2	NNE	1.1	NE	0.9	NNE
18:00 - 19:00	0.0	W	0.8	NNE	0.6	NNE	0.7	NE
19:00 - 20:00	0.7	N	0.6	E	0.7	N	0.6	NNE
20:00 - 21:00	0.6	N	0.1	NNE	0.4	NNE	0.7	NE
21:00 - 22:00	0.6	NNE	0.8	NE	0.8	ENE	0.6	NE
22:00 - 23:00	1.0	NNW	0.7	ENE	0.8	ENE	0.5	NE
23:00 - 24:00	1.7	NE	0.7	NE	0.5	NNE	0.7	NE
00:00 - 01:00	0.6	N	1.1	E	0.7	N	0.2	NNE
01:00 - 02:00	0.7	E	1.8	NE	0.8	NE	0.6	NNE
02:00 - 03:00	0.6	E	0.7	NNE	0.7	NE	0.8	NE
03:00 - 04:00	0.8	E	0.8	E	0.8	NE	0.9	NNE
04:00 - 05:00	0.9	E	0.7	E	0.9	NE	0.9	NNE
05:00 - 06:00	1.3	E	0.9	E	0.8	NE	1.0	WNW
06:00 - 07:00	1.3	E	1.0	E	0.8	NNE	1.1	N
07:00 - 08:00	1.6	E	1.4	E	1.5	NNE	1.3	NNE
08:00 - 09:00	1.7	N	1.4	N	1.6	NE	2.2	ENE
09:00 - 10:00	1.9	NNE	1.7	N	2.2	NE	1.9	ENE

Wind Rose



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Meteorological Monitoring Results : Wind Rose MTR-RW Cogen

Location : Ban Hat Samran Health Promotion Hospital

Monitor period : 12-19 Nov 2025

Wind Speed Model : Scarlet WS-21

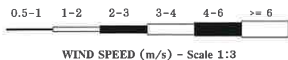
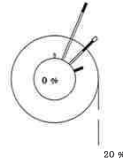
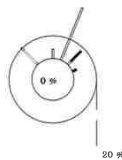
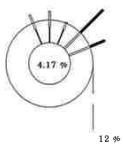
Serial No : AD:67

Wind Direction Model : Scarlet WS-21

Serial No : AD:67

Time	16-17 Nov 2025		17-18 Nov 2025		18-19 Nov 2025		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
10:00 - 11:00	2.1	ENE	1.9	NE	2.6	ENE	
11:00 - 12:00	2.1	NE	2.1	NE	2.4	ENE	
12:00 - 13:00	2.2	ENE	2.0	NE	2.4	NE	
13:00 - 14:00	2.4	NE	1.7	NNE	1.9	NE	
14:00 - 15:00	2.3	NE	1.4	NW	2.1	NE	
15:00 - 16:00	2.2	NE	1.5	NW	1.7	NE	
16:00 - 17:00	1.8	NE	1.4	NW	1.8	NE	
17:00 - 18:00	1.2	NE	1.3	NW	1.8	NE	
18:00 - 19:00	0.9	NNE	1.7	NW	1.4	NNE	
19:00 - 20:00	0.9	NNE	1.7	N	2.0	NNE	
20:00 - 21:00	0.9	N	1.6	N	1.7	NNE	
21:00 - 22:00	0.9	NNW	1.6	NNE	1.6	NNE	
22:00 - 23:00	0.8	N	1.6	NNE	1.5	NNE	
23:00 - 24:00	0.3	N	1.7	NNE	1.5	NNE	
00:00 - 01:00	0.8	NNW	1.6	NNE	1.9	NNE	
01:00 - 02:00	1.6	ENE	1.6	NNE	1.8	NNE	
02:00 - 03:00	1.4	ENE	1.5	NNE	1.7	NNE	
03:00 - 04:00	1.6	ENE	1.8	NNE	1.4	NNE	
04:00 - 05:00	1.4	NE	1.6	NNE	1.6	NNE	
05:00 - 06:00	1.1	N	1.6	NNE	1.7	NNE	
06:00 - 07:00	1.3	NNW	1.4	NNE	1.7	N	
07:00 - 08:00	1.6	NNW	1.6	NNE	2.0	NNE	
08:00 - 09:00	1.7	N	2.5	NE	2.4	NE	
09:00 - 10:00	1.5	NNE	2.7	ENE	3.3	NE	

Wind Rose



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Technical Management Team

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Bangsue, Bangkok 10800
Tel:166(0)2959-3600 Fax:166(0)2959-3535

Meteorological Monitoring Results : Wind Rose MTR-RW Cogen

Location : Wat Don Sai

Monitor period : 12-19 Nov 2025

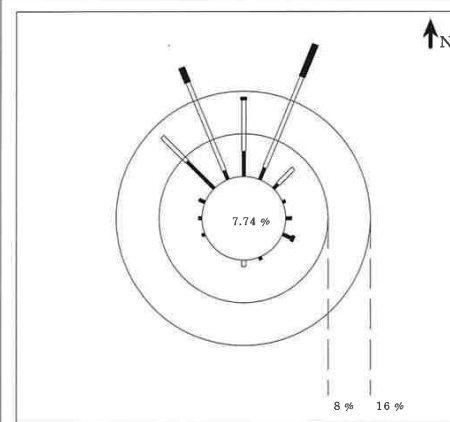
Wind Speed Model : Scarlet WS-21

Serial No : AD:20

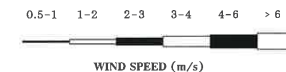
Wind Direction Model : Scarlet WS-21

Serial No : AD:20

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	0.0476	0.0952	0.0060	0.0000	0.0000	0.0000	0.1488
NNE	0.0238	0.1845	0.0655	0.0000	0.0000	0.0000	0.2738
NE	0.0119	0.0417	0.0000	0.0000	0.0000	0.0000	0.0536
ENE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
E	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
ESE	0.0179	0.0000	0.0060	0.0000	0.0000	0.0000	0.0238
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
S	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	0.0119
SSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WSW	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
W	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
WNW	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
NW	0.0714	0.0655	0.0000	0.0000	0.0000	0.0000	0.1369
NNW	0.0179	0.1786	0.0298	0.0000	0.0000	0.0000	0.2262
CALM	0.0774						



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With
Calm Wind < 0.5 m/sData Unit : Direction in Deg.
Wind Speed in m/sNOTE : Frequencies indicate direction from which
the wind is blowing

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Meteorological Monitoring Results : Wind Rose MTR-RW Cogen

Location : Wat Don Sai

Monitor period : 12-19 Nov 2025

Wind Speed Model : Scarlet WS-21

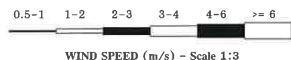
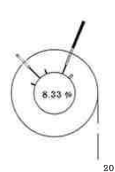
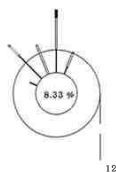
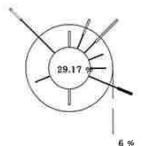
Serial No : AD:20

Wind Direction Model : Scarlet WS-21

Serial No : AD:20

Time	12-13 Nov 2025		13-14 Nov 2025		14-15 Nov 2025		15-16 Nov 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	1.4	N	1.1	N	1.4	NNW	2.1	NNE
11:00 - 12:00	1.1	NW	1.2	NE	1.1	NNW	2.3	NNE
12:00 - 13:00	1.1	S	1.5	NNE	1.7	N	2.3	NNE
13:00 - 14:00	1.3	NNE	1.7	N	2.0	N	2.3	NNE
14:00 - 15:00	1.2	NE	1.4	NNE	1.4	N	2.4	NNE
15:00 - 16:00	2.3	ESE	1.1	NE	1.6	NNE	2.2	NNE
16:00 - 17:00	0.7	ESE	0.8	NE	1.4	N	1.8	NNE
17:00 - 18:00	0.8	ESE	1.4	NNW	0.9	NNE	1.0	NNE
18:00 - 19:00	0.4	SSW	0.8	NNW	0.6	N	0.9	NW
19:00 - 20:00	0.4	SW	0.6	N	0.8	N	0.9	NW
20:00 - 21:00	0.1	WSW	0.4	SSW	0.5	N	1.1	NW
21:00 - 22:00	0.1	S	0.8	SSE	0.6	NW	1.0	NW
22:00 - 23:00	0.8	WSW	0.6	W	0.9	NW	0.7	WNW
23:00 - 24:00	0.3	WNW	0.6	E	0.6	WNW	0.6	NNW
00:00 - 01:00	0.1	W	1.1	S	0.4	SW	0.4	N
01:00 - 02:00	0.6	NW	1.1	NE	0.3	WNW	0.4	N
02:00 - 03:00	0.8	NW	0.4	NW	0.7	NW	0.8	NNE
03:00 - 04:00	0.7	NW	0.5	NW	0.8	NW	0.8	NNE
04:00 - 05:00	0.6	E	0.7	NNW	1.0	NW	1.1	NW
05:00 - 06:00	0.4	NE	1.1	NW	1.3	NW	1.1	NW
06:00 - 07:00	0.5	ENE	1.1	NW	1.3	NNW	0.9	NW
07:00 - 08:00	0.7	NNE	1.1	NW	1.4	NNW	1.4	NNE
08:00 - 09:00	0.7	NE	1.2	NNW	1.4	N	1.8	NE
09:00 - 10:00	1.0	NE	1.4	NNW	1.7	NNE	1.6	NNE

Wind Rose



File Control : R:\Database\Windrose\FileControl\Win-225011-Wat Don Sai 12-19 Nov 2025

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-RW Cogen

Location : Wat Don Sai

Monitor period : 12-19 Nov 2025

Wind Speed Model : Scarlet WS-21

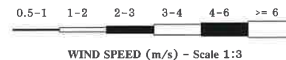
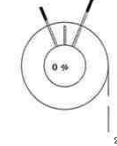
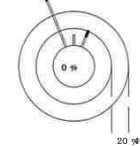
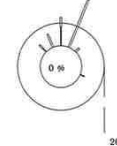
Serial No : AD:20

Wind Direction Model : Scarlet WS-21

Serial No : AD:20

Time	16-17 Nov 2025		17-18 Nov 2025		18-19 Nov 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	1.6	NNE	1.5	N	1.9	NNE
11:00 - 12:00	1.7	NNE	1.7	NNE	2.0	NNE
12:00 - 13:00	1.6	NNE	1.3	NNE	2.0	NNE
13:00 - 14:00	1.8	NNE	1.6	NNE	1.7	NNE
14:00 - 15:00	1.7	NNE	1.3	NNW	1.7	NNE
15:00 - 16:00	1.8	NNE	1.4	NNW	1.4	NNE
16:00 - 17:00	1.8	NNE	1.6	NNW	1.7	NNE
17:00 - 18:00	1.2	NNE	1.6	NNW	1.3	NNE
18:00 - 19:00	0.9	N	1.8	NNW	1.0	N
19:00 - 20:00	0.8	N	2.0	NNW	1.7	NNW
20:00 - 21:00	0.9	N	2.0	NNW	2.0	NNW
21:00 - 22:00	1.1	N	1.9	NNW	1.9	NNW
22:00 - 23:00	0.9	N	1.8	NNW	1.9	NNW
23:00 - 24:00	0.6	ESE	1.8	NNW	1.8	NNW
00:00 - 01:00	0.7	NW	1.7	NNW	2.1	NNW
01:00 - 02:00	1.3	NNE	1.7	N	1.6	N
02:00 - 03:00	1.4	NE	1.8	NNW	1.2	N
03:00 - 04:00	1.3	NNE	1.8	NNW	1.1	NNE
04:00 - 05:00	1.4	NNE	1.8	NNW	1.2	NNE
05:00 - 06:00	1.0	N	1.6	NNW	1.6	NNW
06:00 - 07:00	1.1	NW	1.6	NNW	1.9	NNW
07:00 - 08:00	1.6	NNW	1.3	N	2.0	NNW
08:00 - 09:00	1.9	NNW	2.1	NNE	1.7	N
09:00 - 10:00	1.3	NNW	2.0	NNE	2.7	NNE

Wind Rose



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(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKOLNGPRAPA 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 : Ratchaburi World Cogeneration Co., Ltd. REFERENCE NO. : 225011-Ambient-2511-0043

SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 12-19/11/2025

RECEIVED DATE : 21/11/2025 ANALYTICAL DATE : 22-25/11/2025

REPORT DATE : 28/11/2025 SAMPLE CONDITION : Good

SITE OPERATOR : Mr. Wittaya Krataychan

LOCATION DESCRIPTION : 1. Ban Hat Samran Health Promotion Hospital

2. Wat Don Sai

PARAMETER	SAMPLING DATE	UNIT	RESULT		STANDARD*	REFERENCE METHOD
			1	2		
TSP (24 hr)	12-13/11/2025	mg/cu.m.	0.017	0.023	0.330	High Volume Air
	13-14/11/2025	mg/cu.m.	0.017	0.018		Sampler/Gravimetric
	14-15/11/2025	mg/cu.m.	0.025	0.032		Method
	15-16/11/2025	mg/cu.m.	0.027	0.036		
	16-17/11/2025	mg/cu.m.	0.020	0.027		
	17-18/11/2025	mg/cu.m.	0.012	0.020		
	18-19/11/2025	mg/cu.m.	0.012	0.021		

(Miss Pornnapa Budthum)

Analyst

(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 the National Environment Board, No.24, B.E.2547 (2004).



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKOLNGPRAPA 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 : Ratchaburi World Cogeneration Co., Ltd. REFERENCE NO. : 225011-Ambient-2511-0043

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REPORT DATE : 28/11/2025 SAMPLE CONDITION : Good

SITE OPERATOR : Mr. Wittaya Krataychan

LOCATION DESCRIPTION : 1. Ban Hat Samran Health Promotion Hospital

2. Wat Don Sai

PARAMETER	SAMPLING DATE	UNIT	RESULT		STANDARD*	REFERENCE METHOD
			1	2		
PM-10 (24 hr)	12-13/11/2025	mg/cu.m.	0.007	0.017	0.120	High Volume Air
	13-14/11/2025	mg/cu.m.	0.007	0.014		Sampler (Hi-Vol PM-10
	14-15/11/2025	mg/cu.m.	0.008	0.022		Size Selective Inlet)/
	15-16/11/2025	mg/cu.m.	0.010	0.024		Gravimetric Method
	16-17/11/2025	mg/cu.m.	0.008	0.019		
	17-18/11/2025	mg/cu.m.	0.008	0.013		
	18-19/11/2025	mg/cu.m.	0.006	0.013		

(Miss Pornnapa Budthum)

Analyst

(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 the National Environment Board, No.24, B.E.2547 (2004).



Ambient Air Monitoring Results : Nitrogen dioxide MTR-RW Cogen

Location : Ban Hat Samran Health Promotion Hospital Monitor Period : 12-19 Nov 2025
Analyzer Model : API 200A Station No : SCT-15
Serial No : 2386 Site Operator : Mr. Wittaya Krataychan

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)						
	12-13 Nov 2025	13-14 Nov 2025	14-15 Nov 2025	15-16 Nov 2025	16-17 Nov 2025	17-18 Nov 2025	18-19 Nov 2025
10:00 - 11:00	0.0096	0.0068	0.0153	0.0114	0.0127	0.0081	0.0127
11:00 - 12:00	0.0102	0.0073	0.0161	0.0120	0.0081	0.0121	0.0109
12:00 - 13:00	0.0125	0.0080	0.0141	0.0098	0.0101	0.0143	0.0081
13:00 - 14:00	0.0155	0.0086	0.0135	0.0107	0.0109	0.0108	0.0098
14:00 - 15:00	0.0095	0.0083	0.0146	0.0101	0.0125	0.0141	0.0102
15:00 - 16:00	0.0096	0.0081	0.0146	0.0100	0.0130	0.0135	0.0090
16:00 - 17:00	0.0089	0.0074	0.0128	0.0095	0.0125	0.0128	0.0074
17:00 - 18:00	0.0078	0.0077	0.0122	0.0087	0.0094	0.0103	0.0091
18:00 - 19:00	0.0089	0.0091	0.0092	0.0074	0.0137	0.0090	0.0077
19:00 - 20:00	0.0081	0.0084	0.0095	0.0083	0.0106	0.0110	0.0076
20:00 - 21:00	0.0092	0.0075	0.0085	0.0064	0.0114	0.0089	0.0072
21:00 - 22:00	0.0080	0.0076	0.0083	0.0095	0.0131	0.0075	0.0063
22:00 - 23:00	0.0077	0.0075	0.0093	0.0094	0.0126	0.0081	0.0071
23:00 - 00:00	0.0102	0.0069	0.0090	0.0113	0.0114	0.0079	0.0062
00:00 - 01:00	0.0096	0.0086	0.0090	0.0089	0.0126	0.0097	0.0076
01:00 - 02:00	0.0111	0.0071	0.0098	0.0110	0.0110	0.0114	0.0072
02:00 - 03:00	0.0127	0.0077	0.0109	0.0108	0.0134	0.0137	0.0060
03:00 - 04:00	0.0127	0.0085	0.0137	0.0120	0.0118	0.0147	0.0078
04:00 - 05:00	0.0108	0.0085	0.0154	0.0099	0.0100	0.0108	0.0079
05:00 - 06:00	0.0100	0.0069	0.0119	0.0103	0.0107	0.0156	0.0090
06:00 - 07:00	0.0119	0.0076	0.0096	0.0094	0.0106	0.0135	0.0077
07:00 - 08:00	0.0109	0.0113	0.0105	0.0109	0.0095	0.0119	0.0099
08:00 - 09:00	0.0100	0.0090	0.0123	0.0114	0.0099	0.0121	0.0101
09:00 - 10:00	0.0108	0.0146	0.0121	0.0097	0.0077	0.0137	0.0117
Average-24Hr*	0.0103	0.0083	0.0118	0.0099	0.0112	0.0115	0.0085
Max-1Hr	0.0155	0.0146	0.0161	0.0120	0.0137	0.0156	0.0127
Min-1Hr	0.0077	0.0068	0.0083	0.0064	0.0077	0.0075	0.0060
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-RW Cogen

Location : Wat Don Sai Monitor Period : 12-19 Nov 2025
Analyzer Model : API 200A Station No : SCT-14
Serial No : 2384 Site Operator : Mr. Wittaya Krataychan

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)						
	12-13 Nov 2025	13-14 Nov 2025	14-15 Nov 2025	15-16 Nov 2025	16-17 Nov 2025	17-18 Nov 2025	18-19 Nov 2025
10:00 - 11:00	0.0082	0.0124	0.0127	0.0127	0.0096	0.0109	0.0137
11:00 - 12:00	0.0115	0.0119	0.0128	0.0135	0.0110	0.0108	0.0122
12:00 - 13:00	0.0113	0.0120	0.0130	0.0119	0.0103	0.0110	0.0123
13:00 - 14:00	0.0123	0.0143	0.0151	0.0139	0.0106	0.0125	0.0138
14:00 - 15:00	0.0118	0.0156	0.0154	0.0139	0.0101	0.0130	0.0175
15:00 - 16:00	0.0136	0.0158	0.0152	0.0142	0.0086	0.0132	0.0132
16:00 - 17:00	0.0134	0.0134	0.0154	0.0132	0.0092	0.0122	0.0120
17:00 - 18:00	0.0164	0.0129	0.0158	0.0122	0.0093	0.0114	0.0107
18:00 - 19:00	0.0136	0.0130	0.0158	0.0099	0.0079	0.0117	0.0124
19:00 - 20:00	0.0131	0.0170	0.0150	0.0099	0.0072	0.0126	0.0121
20:00 - 21:00	0.0130	0.0199	0.0142	0.0104	0.0076	0.0130	0.0122
21:00 - 22:00	0.0139	0.0207	0.0150	0.0100	0.0082	0.0133	0.0093
22:00 - 23:00	0.0122	0.0169	0.0139	0.0108	0.0066	0.0127	0.0098
23:00 - 00:00	0.0147	0.0161	0.0128	0.0095	0.0070	0.0120	0.0095
00:00 - 01:00	0.0150	0.0130	0.0124	0.0097	0.0077	0.0128	0.0082
01:00 - 02:00	0.0123	0.0123	0.0143	0.0102	0.0080	0.0126	0.0094
02:00 - 03:00	0.0117	0.0135	0.0127	0.0088	0.0093	0.0132	0.0098
03:00 - 04:00	0.0119	0.0127	0.0135	0.0098	0.0097	0.0113	0.0158
04:00 - 05:00	0.0127	0.0129	0.0134	0.0091	0.0113	0.0146	0.0148
05:00 - 06:00	0.0144	0.0117	0.0124	0.0092	0.0103	0.0152	0.0136
06:00 - 07:00	0.0147	0.0132	0.0127	0.0126	0.0108	0.0157	0.0071
07:00 - 08:00	0.0126	0.0129	0.0114	0.0125	0.0102	0.0131	0.0090
08:00 - 09:00	0.0128	0.0119	0.0114	0.0114	0.0119	0.0142	0.0081
09:00 - 10:00	0.0122	0.0106	0.0118	0.0115	0.0099	0.0140	0.0086
Average-24Hr*	0.0129	0.0140	0.0137	0.0113	0.0093	0.0128	0.0115
Max-1Hr	0.0164	0.0207	0.0158	0.0142	0.0119	0.0157	0.0175
Min-1Hr	0.0082	0.0106	0.0114	0.0088	0.0066	0.0108	0.0071
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 : Sulfur dioxide MTR-RW Cogen

Location : Ban Hat Samran Health Promotion Hospital Monitor Period : 12-19 Nov 2025
Analyzer Model : Teledyne T100 Station No : SCT-15
Serial No : 120 Site Operator : Mr. Wittaya Krataychan

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)						
	12-13 Nov 2025	13-14 Nov 2025	14-15 Nov 2025	15-16 Nov 2025	16-17 Nov 2025	17-18 Nov 2025	18-19 Nov 2025
10:00 - 11:00	0.0035	0.0026	0.0030	0.0028	0.0046	0.0040	0.0039
11:00 - 12:00	0.0041	0.0026	0.0024	0.0028	0.0037	0.0031	0.0036
12:00 - 13:00	0.0038	0.0025	0.0043	0.0039	0.0038	0.0034	0.0035
13:00 - 14:00	0.0033	0.0032	0.0036	0.0036	0.0035	0.0032	0.0041
14:00 - 15:00	0.0035	0.0027	0.0033	0.0030	0.0033	0.0036	0.0040
15:00 - 16:00	0.0034	0.0034	0.0024	0.0036	0.0035	0.0040	0.0041
16:00 - 17:00	0.0034	0.0026	0.0030	0.0031	0.0030	0.0035	0.0039
17:00 - 18:00	0.0038	0.0029	0.0029	0.0031	0.0033	0.0033	0.0043
18:00 - 19:00	0.0028	0.0025	0.0036	0.0030	0.0035	0.0042	0.0043
19:00 - 20:00	0.0037	0.0028	0.0039	0.0024	0.0031	0.0044	0.0033
20:00 - 21:00	0.0027	0.0031	0.0031	0.0027	0.0033	0.0043	0.0036
21:00 - 22:00	0.0046	0.0027	0.0028	0.0026	0.0029	0.0041	0.0040
22:00 - 23:00	0.0034	0.0025	0.0030	0.0039	0.0033	0.0032	0.0039
23:00 - 00:00	0.0036	0.0029	0.0036	0.0027	0.0026	0.0034	0.0039
00:00 - 01:00	0.0028	0.0037	0.0030	0.0027	0.0031	0.0038	0.0042
01:00 - 02:00	0.0025	0.0029	0.0033	0.0047	0.0030	0.0040	0.0037
02:00 - 03:00	0.0030	0.0026	0.0033	0.0027	0.0036	0.0036	0.0047
03:00 - 04:00	0.0027	0.0034	0.0033	0.0033	0.0036	0.0042	0.0041
04:00 - 05:00	0.0027	0.0027	0.0029	0.0029	0.0035	0.0045	0.0044
05:00 - 06:00	0.0032	0.0031	0.0035	0.0026	0.0042	0.0038	0.0045
06:00 - 07:00	0.0031	0.0026	0.0035	0.0027	0.0034	0.0042	0.0046
07:00 - 08:00	0.0030	0.0032	0.0024	0.0033	0.0042	0.0043	0.0041
08:00 - 09:00	0.0029	0.0044	0.0030	0.0023	0.0042	0.0035	0.0044
09:00 - 10:00	0.0035	0.0035	0.0036	0.0030	0.0033	0.0034	0.0045
Average-24Hr*	0.0033	0.0030	0.0032	0.0031	0.0035	0.0038	0.0041
Max-1Hr	0.0046	0.0044	0.0043	0.0047	0.0046	0.0045	0.0047
Min-1Hr	0.0025	0.0025	0.0024	0.0023	0.0026	0.0031	0.0033
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

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-RW Cogen

Location : Wat Don Sai Monitor Period : 12-19 Nov 2025
Analyzer Model : API 100A Station No : SCT-14
Serial No : 342 Site Operator : Mr. Wittaya Krataychan

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)						
	12-13 Nov 2025	13-14 Nov 2025	14-15 Nov 2025	15-16 Nov 2025	16-17 Nov 2025	17-18 Nov 2025	18-19 Nov 2025
10:00 - 11:00	0.0033	0.0040	0.0043	0.0043	0.0036	0.0035	0.0042
11:00 - 12:00	0.0033	0.0038	0.0037	0.0042	0.0042	0.0043	0.0042
12:00 - 13:00	0.0038	0.0043	0.0044	0.0039	0.0041	0.0041	0.0037
13:00 - 14:00	0.0040	0.0045	0.0044	0.0042	0.0046	0.0041	0.0043
14:00 - 15:00	0.0041	0.0036	0.0038	0.0038	0.0047	0.0044	0.0049
15:00 - 16:00	0.0038	0.0047	0.0042	0.0040	0.0045	0.0048	0.0038
16:00 - 17:00	0.0037	0.0045	0.0046	0.0045	0.0040	0.0046	0.0038
17:00 - 18:00	0.0044	0.0044	0.0038	0.0041	0.0046	0.0044	0.0047
18:00 - 19:00	0.0046	0.0042	0.0037	0.0036	0.0039	0.0046	0.0043
19:00 - 20:00	0.0038	0.0044	0.0047	0.0038	0.0040	0.0039	0.0050
20:00 - 21:00	0.0048	0.0045	0.0042	0.0045	0.0044	0.0041	0.0043
21:00 - 22:00	0.0040	0.0045	0.0040	0.0042	0.0042	0.0045	0.0045
22:00 - 23:00	0.0045	0.0039	0.0044	0.0037	0.0045	0.0045	0.0041
23:00 - 00:00	0.0041	0.0047	0.0041	0.0045	0.0048	0.0043	0.0042
00:00 - 01:00	0.0040	0.0040	0.0041	0.0043	0.0047	0.0051	0.0053
01:00 - 02:00	0.0035	0.0039	0.0044	0.0043	0.0039	0.0049	0.0052
02:00 - 03:00	0.0039	0.0046	0.0041	0.0040	0.0046	0.0042	0.0047
03:00 - 04:00	0.0043	0.0043	0.0046	0.0038	0.0050	0.0038	0.0048
04:00 - 05:00	0.0034	0.0042	0.0043	0.0042	0.0040	0.0041	0.0049
05:00 - 06:00	0.0037	0.0043	0.0042	0.0040	0.0039	0.0042	0.0048
06:00 - 07:00	0.0035	0.0043	0.0042	0.0043	0.0042	0.0038	0.0031
07:00 - 08:00	0.0045	0.0036	0.0042	0.0040	0.0036	0.0043	0.0043
08:00 - 09:00	0.0042	0.0044	0.0040	0.0044	0.0043	0.0038	0.0049
09:00 - 10:00	0.0044	0.0039	0.0037	0.0035	0.0037	0.0039	0.0043
Average-24Hr*	0.0040	0.0042	0.0042	0.0041	0.0043	0.0043	0.0044
Max-1Hr	0.0048	0.0047	0.0047	0.0045	0.0050	0.0051	0.0053
Min-1Hr	0.0033	0.0036	0.0037	0.0035	0.0036	0.0035	0.0031
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

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Ozone

MTR-RW Cogen

Location : Wat Don Sai			Monitor Period : 12-19 Nov 2025				
Analyzer Model : API 400			Station No : SCT-14				
Serial No : 578			Site Operator : Mr. Wittaya Krataychan				
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	O3 Concentration (ppm)						
	12-13 Nov 2025	13-14 Nov 2025	14-15 Nov 2025	15-16 Nov 2025	16-17 Nov 2025	17-18 Nov 2025	18-19 Nov 2025
10:00 ~ 11:00	0.0179	0.0181	0.0175	0.0189	0.0223	0.0221	0.0235
11:00 ~ 12:00	0.0232	0.0221	0.0207	0.0233	0.0234	0.0235	0.0267
12:00 ~ 13:00	0.0273	0.0230	0.0232	0.0249	0.0253	0.0274	0.0283
13:00 ~ 14:00	0.0239	0.0261	0.0296	0.0279	0.0273	0.0296	0.0276
14:00 ~ 15:00	0.0201	0.0226	0.0256	0.0266	0.0232	0.0249	0.0229
15:00 ~ 16:00	0.0177	0.0181	0.0227	0.0216	0.0204	0.0222	0.0205
16:00 ~ 17:00	0.0138	0.0137	0.0149	0.0162	0.0160	0.0157	0.0144
17:00 ~ 18:00	0.0122	0.0079	0.0091	0.0102	0.0127	0.0115	0.0096
18:00 ~ 19:00	0.0066	0.0073	0.0079	0.0076	0.0094	0.0074	0.0052
19:00 ~ 20:00	0.0042	0.0045	0.0059	0.0050	0.0055	0.0063	0.0044
20:00 ~ 21:00	0.0032	0.0022	0.0039	0.0039	0.0026	0.0025	0.0030
21:00 ~ 22:00	0.0034	0.0029	0.0032	0.0040	0.0029	0.0032	0.0037
22:00 ~ 23:00	0.0037	0.0031	0.0028	0.0031	0.0031	0.0036	0.0026
23:00 ~ 00:00	0.0042	0.0042	0.0033	0.0038	0.0028	0.0039	0.0027
00:00 ~ 01:00	0.0031	0.0035	0.0027	0.0038	0.0021	0.0031	0.0033
01:00 ~ 02:00	0.0021	0.0024	0.0038	0.0026	0.0029	0.0036	0.0030
02:00 ~ 03:00	0.0033	0.0030	0.0039	0.0038	0.0028	0.0022	0.0036
03:00 ~ 04:00	0.0022	0.0028	0.0030	0.0025	0.0023	0.0036	0.0022
04:00 ~ 05:00	0.0057	0.0052	0.0050	0.0034	0.0040	0.0030	0.0032
05:00 ~ 06:00	0.0073	0.0076	0.0066	0.0040	0.0054	0.0059	0.0057
06:00 ~ 07:00	0.0083	0.0111	0.0123	0.0077	0.0075	0.0084	0.0227
07:00 ~ 08:00	0.0102	0.0125	0.0145	0.0126	0.0136	0.0130	0.0166
08:00 ~ 09:00	0.0134	0.0127	0.0150	0.0142	0.0139	0.0151	0.0118
09:00 ~ 10:00	0.0131	0.0156	0.0176	0.0185	0.0203	0.0203	0.0289
Average-24Hr*	0.0104	0.0105	0.0114	0.0113	0.0113	0.0118	0.0123
Max-1Hr	0.0273	0.0261	0.0296	0.0279	0.0273	0.0296	0.0289
Min-1Hr	0.0021	0.0022	0.0027	0.0025	0.0021	0.0022	0.0022
Standard-1Hr	0.10 ppm(200 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

คุณภาพอากาศจากปล่องหน่วยผลิตไอน้ำ



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	: Ratchaburi World Cogeneration Co., Ltd.	REFERENCE NO.	: 225011-Cems-2511-0042
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION NO.	: 2-239
SAMPLING DATE	: 14/11/2025	RECEIVED DATE	: 15/11/2025
ANALYTICAL DATE	: 15-18/11/2025	REPORT DATE	: 25/11/2025
SAMPLE CONDITION	: Good	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
STACK LOCATION	: HRSG 11		: 2-239-0-0024
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 34.7	m	Gas Velocity	: 13.5	m/s
Diameter	: 3.05	m	Flow rate*	: 4,280	Ncu.m/min
Temperature	: 94.5	°C	Excess Oxygen	: 14.3	%
Moisture	: 10.2	%			

PARAMETER	UNIT	RESULT			STANDARD		REFERENCE
		14.3%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Particulate Matter	mg/Ncu.m.	2.59	5.46	0.18	60 ^{1/} , 10 ^{2/}	0.50 ^{2/}	US. EPA Method 5

Pornnapa Budthum

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-0-0010

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 mm.Hg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of Ministry Natural Resources and Environmental, B.E.2566 (2023) and Notification of Ministry of Industry, B.E.2567 (2024).

5. ^{2/} The value was assigned in EIA report.

The Monitoring Result of Emission Concentration HRSG 11 Ratchaburi World Cogeneration Co.,Ltd November 14, 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	14.31	14.24	9.09	9.04	18.87
2	14.37	14.30	9.10	9.06	19.08
3	14.48	14.40	9.70	9.66	20.66
Average	14.39	14.31	9.30	9.25	19.53

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	14.31	14.24	0.66	0.60	1.25
2	14.37	14.30	0.70	0.65	1.37
3	14.48	14.40	0.80	0.75	1.60
Average	14.39	14.31	0.72	0.67	1.41

Ratchaburi World Cogeneration Co.,Ltd EMISSION TEST RESULT

Date: November 14, 2025
Start time: 11:00 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: TELEDYNE 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Run # : 1
Location : HRSG 11
Finish time : 11:20 AM
Serial No.: 161212-14
Serial No.: 433
Serial No.: 118
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:00 AM	14.31	8.43	0.63
11:01 AM	14.31	8.47	0.59
11:02 AM	14.31	8.39	0.61
11:03 AM	14.31	8.59	0.64
11:04 AM	14.31	8.79	0.60
11:05 AM	14.31	8.57	0.64
11:06 AM	14.31	8.75	0.62
11:07 AM	14.31	9.05	0.62
11:08 AM	14.31	8.73	0.61
11:09 AM	14.31	8.74	0.66
11:10 AM	14.31	9.10	0.64
11:11 AM	14.31	9.44	0.66
11:12 AM	14.31	10.23	0.68
11:13 AM	14.31	10.01	0.68
11:14 AM	14.31	10.13	0.69
11:15 AM	14.31	9.43	0.69
11:16 AM	14.31	9.28	0.71
11:17 AM	14.31	8.88	0.68
11:18 AM	14.31	8.95	0.71
11:19 AM	14.31	9.37	0.68
11:20 AM	14.31	9.51	0.73
Average	14.31	9.09	0.66

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist

Ratchaburi World Cogeneration Co.,Ltd EMISSION TEST RESULT

Date: November 14, 2025
Start time: 11:21 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: TELEDYNE 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Run # : 2
Location : HRSG 11
Finish time : 11:41 AM
Serial No.: 161212-14
Serial No.: 433
Serial No.: 118
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:21 AM	14.31	9.76	0.71
11:22 AM	14.31	9.86	0.69
11:23 AM	14.31	9.79	0.71
11:24 AM	14.31	10.07	0.72
11:25 AM	14.31	9.14	0.68
11:26 AM	14.31	9.39	0.69
11:27 AM	14.31	8.88	0.70
11:28 AM	14.36	8.76	0.71
11:29 AM	14.41	8.38	0.71
11:30 AM	14.41	8.27	0.70
11:31 AM	14.41	8.40	0.68
11:32 AM	14.41	8.89	0.68
11:33 AM	14.41	9.04	0.68
11:34 AM	14.41	8.88	0.70
11:35 AM	14.41	8.84	0.70
11:36 AM	14.41	8.81	0.72
11:37 AM	14.41	9.01	0.68
11:38 AM	14.41	9.29	0.70
11:39 AM	14.41	9.33	0.73
11:40 AM	14.41	9.17	0.71
11:41 AM	14.41	9.06	0.70
Average	14.37	9.10	0.70

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist

Ratchaburi World Cogeneration Co.,Ltd EMISSION TEST RESULT

Date: November 14, 2025
Start time: 11:42 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: TELEDYNE 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Run # : 3
Location : HRSG 11
Finish time : 12:02 PM
Serial No.: 161212-14
Serial No.: 433
Serial No.: 118
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:42 AM	14.41	8.78	0.71
11:43 AM	14.41	8.46	0.72
11:44 AM	14.41	8.35	0.71
11:45 AM	14.41	8.64	0.74
11:46 AM	14.41	9.06	0.76
11:47 AM	14.41	9.83	0.77
11:48 AM	14.41	10.17	0.77
11:49 AM	14.41	10.13	0.80
11:50 AM	14.48	10.26	0.78
11:51 AM	14.51	10.62	0.78
11:52 AM	14.51	10.06	0.80
11:53 AM	14.51	10.17	0.81
11:54 AM	14.51	10.32	0.84
11:55 AM	14.51	10.27	0.81
11:56 AM	14.51	10.67	0.83
11:57 AM	14.51	10.18	0.84
11:58 AM	14.51	9.76	0.85
11:59 AM	14.51	9.36	0.88
12:00 PM	14.51	9.42	0.89
12:01 PM	14.52	9.60	0.88
12:02 PM	14.61	9.66	0.92
Average	14.48	9.70	0.80

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

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

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : Ratchaburi World Cogeneration Co., Ltd. **REFERENCE NO. :** 225011-Cems-2511-0042
SAMPLING BY : SECOT Co., Ltd. **REGISTRATION NO. :** 2-239
SAMPLING DATE : 14/11/2025 **RECEIVED DATE :** 15/11/2025
ANALYTICAL DATE : 15-18/11/2025 **REPORT DATE :** 25/11/2025
SAMPLE CONDITION : Good **SITE OPERATOR :** Mr. Kittipong Thakoengsuk
STACK LOCATION : HRSG 12 **FUEL TYPE :** Natural Gas
SOURCE DESCRIPTION : Combustion

STACK DESCRIPTION

Height : 34.7 m **Gas Velocity :** 14.1 m/s
Diameter : 3.05 m **Flow rate* :** 4,418 Ncu.m./min
Temperature : 96.1 °C **Excess Oxygen :** 14.9 %
Moisture : 10.9 %

PARAMETER	UNIT	RESULT			STANDARD		REFERENCE
		14.9%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Particulate Matter	mg/Ncu.m.	1.87	4.30	0.14	60 ^{1/} , 10 ^{2/}	0.50 ^{2/}	US. EPA Method 5

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-0-0010

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 mm.Hg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of Ministry Natural Resources and Environmental, B.E.2566 (2023) and Notification of Ministry of Industry, B.E.2567 (2024).

5. ^{2/} The value was assigned in EIA report.

**The Monitoring Result of Emission Concentration
HRSG 12
Ratchaburi World Cogeneration Co.,Ltd
November 14, 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	14.85	14.82	15.37	15.33	35.05
2	14.92	14.88	15.48	15.44	35.65
3	14.92	14.88	16.09	16.04	37.04
Average	14.89	14.86	15.64	15.60	35.91

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	14.85	14.82	0.19	0.12	0.27
2	14.92	14.88	0.21	0.14	0.32
3	14.92	14.88	0.25	0.18	0.42
Average	14.89	14.86	0.22	0.15	0.34

**Ratchaburi World Cogeneration Co.,Ltd
EMISSION TEST RESULT**

Date: November 14, 2025
 Start time: 11:00 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 1
 Location : HRSG 12
 Finish time : 11:20 AM
 Serial No.: 121121-10
 Serial No.: 441
 Serial No.: 060
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:00 AM	14.79	14.25	0.15
11:01 AM	14.79	14.40	0.16
11:02 AM	14.78	16.58	0.14
11:03 AM	14.78	16.42	0.16
11:04 AM	14.79	16.24	0.16
11:05 AM	14.78	16.24	0.18
11:06 AM	14.78	15.97	0.20
11:07 AM	14.81	14.72	0.20
11:08 AM	14.86	14.92	0.20
11:09 AM	14.86	15.06	0.21
11:10 AM	14.86	15.55	0.21
11:11 AM	14.87	17.48	0.18
11:12 AM	14.86	15.11	0.18
11:13 AM	14.88	16.73	0.20
11:14 AM	14.89	14.65	0.20
11:15 AM	14.89	15.10	0.21
11:16 AM	14.91	14.55	0.23
11:17 AM	14.93	14.26	0.22
11:18 AM	14.91	14.59	0.23
11:19 AM	14.91	14.87	0.21
11:20 AM	14.91	15.08	0.20
Average	14.85	15.37	0.19

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Ratchaburi World Cogeneration Co.,Ltd EMISSION TEST RESULT

Date: November 14, 2025
Start time: 11:21 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Run # : 2
Location : HRSO 12
Finish time : 11:41 AM
Serial No.: 121121-10
Serial No.: 441
Serial No.: 060
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:21 AM	14.91	15.36	0.20
11:22 AM	14.91	15.34	0.20
11:23 AM	14.91	15.83	0.23
11:24 AM	14.91	16.03	0.20
11:25 AM	14.91	16.34	0.21
11:26 AM	14.91	15.51	0.21
11:27 AM	14.91	15.05	0.20
11:28 AM	14.92	14.84	0.21
11:29 AM	14.92	14.83	0.23
11:30 AM	14.92	14.89	0.23
11:31 AM	14.91	15.31	0.22
11:32 AM	14.91	15.70	0.20
11:33 AM	14.91	15.62	0.18
11:34 AM	14.92	15.41	0.22
11:35 AM	14.93	15.24	0.21
11:36 AM	14.92	15.34	0.22
11:37 AM	14.92	15.66	0.21
11:38 AM	14.91	15.93	0.23
11:39 AM	14.91	15.87	0.24
11:40 AM	14.92	15.61	0.22
11:41 AM	14.93	15.30	0.22
Average	14.92	15.48	0.21

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Ratchaburi World Cogeneration Co.,Ltd EMISSION TEST RESULT

Date: November 14, 2025
Start time: 11:42 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Run # : 3
Location : HRSO 12
Finish time : 12:02 PM
Serial No.: 121121-10
Serial No.: 441
Serial No.: 060
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:42 AM	14.93	14.79	0.24
11:43 AM	14.93	14.39	0.22
11:44 AM	14.93	14.49	0.23
11:45 AM	14.93	15.10	0.25
11:46 AM	14.92	16.47	0.21
11:47 AM	14.91	16.84	0.23
11:48 AM	14.91	16.45	0.23
11:49 AM	14.90	16.01	0.25
11:50 AM	14.91	18.35	0.23
11:51 AM	14.90	16.51	0.22
11:52 AM	14.90	16.76	0.25
11:53 AM	14.92	17.22	0.26
11:54 AM	14.90	15.76	0.28
11:55 AM	14.91	17.08	0.25
11:56 AM	14.91	16.96	0.26
11:57 AM	14.91	16.28	0.23
11:58 AM	14.93	15.74	0.24
11:59 AM	14.91	15.30	0.26
12:00 PM	14.93	15.64	0.28
12:01 PM	14.91	15.99	0.26
12:02 PM	14.92	15.72	0.28
Average	14.92	16.09	0.25

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REFERENCE NO.	: 225011-Cems-2511-0042
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION NO.	: ๓-239
SAMPLING DATE	: 14/11/2025	RECEIVED DATE	: 15/11/2025
ANALYTICAL DATE	: 15-18/11/2025	REPORT DATE	: 25/11/2025
SAMPLE CONDITION	: Good	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
STACK LOCATION	: HRSG 21		: ๓-239-๓-0024
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 34.7	m	Gas Velocity	: 17.0	m/s
Diameter	: 3.05	m	Flow rate*	: 5,071	Ncu.m/min
Temperature	: 112.3	°C	Excess Oxygen	: 14.8	%
Moisture	: 11.4	%			

PARAMETER	UNIT	RESULT			STANDARD		REFERENCE
		14.8%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Particulate Matter	mg/Ncu.m.	1.67	3.78	0.14	60 ^{1/} ,10 ^{2/}	0.50 ^{2/}	US. EPA Method 5

(Miss Pornnapa Budthum)

Analyst

REG.NO. ๓-239-๓-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. ๓-239-๓-0010

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 mm.Hg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of Ministry Natural Resources and Environmental, B.E.2566 (2023) and Notification of Ministry of Industry, B.E.2567 (2024).

5. ^{2/} The value was assigned in EIA report.

The Monitoring Result of Emission Concentration HRSG 21

Ratchaburi World Cogeneration Co.,Ltd

November 14, 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	14.79	14.72	9.02	8.98	20.20
2	14.80	14.75	9.21	9.17	20.73
3	14.80	14.77	9.25	9.21	20.88
Average	14.80	14.75	9.16	9.12	20.60

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	14.79	14.72	0.63	0.58	1.30
2	14.80	14.75	0.68	0.63	1.42
3	14.80	14.77	0.73	0.68	1.54
Average	14.80	14.75	0.68	0.63	1.42

Ratchaburi World Cogeneration Co.,Ltd EMISSION TEST RESULT

Date: November 14, 2025
 Start time: 2:50 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: TELEDYEN 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 1
 Location : HRSG 21
 Finish time : 3:10 PM
 Serial No.: 161212-14
 Serial No.: 433
 Serial No.: 118
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:50 PM	14.71	8.89	0.58
2:51 PM	14.71	8.97	0.56
2:52 PM	14.78	8.97	0.59
2:53 PM	14.77	8.94	0.63
2:54 PM	14.78	8.99	0.61
2:55 PM	14.74	9.02	0.64
2:56 PM	14.81	8.96	0.64
2:57 PM	14.81	8.99	0.60
2:58 PM	14.81	9.06	0.62
2:59 PM	14.81	9.06	0.66
3:00 PM	14.81	8.99	0.63
3:01 PM	14.81	9.00	0.68
3:02 PM	14.81	9.05	0.66
3:03 PM	14.81	9.01	0.61
3:04 PM	14.81	8.99	0.63
3:05 PM	14.81	8.96	0.62
3:06 PM	14.81	8.98	0.66
3:07 PM	14.81	8.96	0.65
3:08 PM	14.81	9.14	0.67
3:09 PM	14.80	9.17	0.68
3:10 PM	14.81	9.24	0.68
Average	14.79	9.02	0.63

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Ratchaburi World Cogeneration Co.,Ltd EMISSION TEST RESULT

Date: November 14, 2025
 Start time: 3:11 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: TELEDYEN 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 2
 Location : HRSG 21
 Finish time : 3:31 PM
 Serial No.: 161212-14
 Serial No.: 433
 Serial No.: 118
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
3:11 PM	14.80	9.29	0.65
3:12 PM	14.80	9.42	0.67
3:13 PM	14.80	9.33	0.72
3:14 PM	14.80	9.31	0.68
3:15 PM	14.80	9.28	0.67
3:16 PM	14.80	9.24	0.68
3:17 PM	14.80	9.24	0.68
3:18 PM	14.80	9.16	0.68
3:19 PM	14.80	9.09	0.64
3:20 PM	14.80	9.15	0.68
3:21 PM	14.80	9.19	0.70
3:22 PM	14.80	9.22	0.69
3:23 PM	14.80	9.20	0.66
3:24 PM	14.80	9.18	0.65
3:25 PM	14.80	9.14	0.68
3:26 PM	14.80	9.16	0.70
3:27 PM	14.80	9.13	0.68
3:28 PM	14.80	9.14	0.71
3:29 PM	14.80	9.18	0.70
3:30 PM	14.80	9.21	0.69
3:31 PM	14.80	9.20	0.72
Average	14.80	9.21	0.68

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Ratchaburi World Cogeneration Co.,Ltd
EMISSION TEST RESULT

Date: November 14, 2025
Start time: 3:32 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: TELEDYEN 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Run #: 3
Location : HRSG 21
Finish time : 3:52 PM
Serial No.: 161212-14
Serial No.: 433
Serial No.: 118
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
3:32 PM	14.80	9.16	0.72
3:33 PM	14.80	9.11	0.72
3:34 PM	14.80	9.28	0.71
3:35 PM	14.80	9.26	0.70
3:36 PM	14.80	9.33	0.73
3:37 PM	14.80	9.32	0.70
3:38 PM	14.80	9.33	0.72
3:39 PM	14.80	9.46	0.71
3:40 PM	14.80	9.58	0.75
3:41 PM	14.80	9.55	0.75
3:42 PM	14.80	9.47	0.75
3:43 PM	14.80	9.31	0.72
3:44 PM	14.80	9.25	0.73
3:45 PM	14.80	9.19	0.71
3:46 PM	14.80	9.16	0.75
3:47 PM	14.80	9.08	0.75
3:48 PM	14.80	9.08	0.74
3:49 PM	14.80	9.14	0.74
3:50 PM	14.80	9.12	0.78
3:51 PM	14.83	9.07	0.75
3:52 PM	14.86	9.10	0.73
Average	14.80	9.25	0.73

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

บริษัท ซีคอต จำกัด
SECOT CO., LTD.

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : Ratchaburi World Cogeneration Co., Ltd. REFERENCE NO. : 225011-Cems-2511-0042
SAMPLING BY : SECOT Co., Ltd. REGISTRATION NO. : 2-239
SAMPLING DATE : 14/11/2025 RECEIVED DATE : 15/11/2025
ANALYTICAL DATE : 15-18/11/2025 REPORT DATE : 25/11/2025
SAMPLE CONDITION : Good SITE OPERATOR : Mr. Kittipong Thakoengsuk
STACK LOCATION : HRSG 22 : 2-239-0-0024
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 34.7 m Gas Velocity : 17.0 m/s
Diameter : 3.05 m Flow rate* : 5,160 Ncu.m./min
Temperature : 111.0 °C Excess Oxygen : 14.8 %
Moisture : 10.2 %

PARAMETER	UNIT	RESULT			STANDARD		REFERENCE
		14.8%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Particulate Matter	mg/Ncu.m.	1.40	3.20	0.12	60 ^{1/} , 10 ^{2/}	0.50 ^{2/}	US. EPA Method 5



(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018



(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-0-0010

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 mm.Hg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of Ministry Natural Resources and Environmental, B.E.2566 (2023) and Notification of Ministry of Industry, B.E.2567 (2024).5. ^{2/} The value was assigned in EIA report.

**The Monitoring Result of Emission Concentration
HRSG 22**

**Ratchaburi World Cogenertion Co.,Ltd
November 14, 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	14.85	14.80	7.58	7.53	17.16
2	14.86	14.81	8.16	8.11	18.51
3	14.84	14.79	8.22	8.17	18.59
Average	14.85	14.80	7.99	7.94	18.09

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	14.85	14.80	0.08	0.05	0.11
2	14.86	14.81	0.10	0.07	0.16
3	14.84	14.79	0.12	0.09	0.20
Average	14.85	14.80	0.10	0.07	0.16

**Ratchaburi World Cogenertion Co.,Ltd
EMISSION TEST RESULT**

Date: November 14, 2025
 Start time: 2:50 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 1
 Location : HRSG 22
 Finish time : 3:10 PM
 Serial No.: 121121-9
 Serial No.: 433
 Serial No.: 118
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:50 PM	14.80	6.82	0.08
2:51 PM	14.81	6.96	0.06
2:52 PM	14.82	7.13	0.07
2:53 PM	14.85	7.30	0.06
2:54 PM	14.86	7.27	0.07
2:55 PM	14.86	7.35	0.08
2:56 PM	14.86	7.45	0.08
2:57 PM	14.86	7.44	0.07
2:58 PM	14.86	7.60	0.09
2:59 PM	14.86	7.59	0.07
3:00 PM	14.87	7.65	0.08
3:01 PM	14.86	7.70	0.08
3:02 PM	14.86	7.75	0.09
3:03 PM	14.86	7.80	0.09
3:04 PM	14.86	7.77	0.09
3:05 PM	14.86	7.74	0.10
3:06 PM	14.86	7.85	0.11
3:07 PM	14.86	7.90	0.10
3:08 PM	14.86	8.09	0.10
3:09 PM	14.86	8.07	0.08
3:10 PM	14.86	8.04	0.10
Average	14.85	7.58	0.08

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Ratchaburi World Cogeneration Co.,Ltd EMISSION TEST RESULT

Date: November 14, 2025
 Start time: 3:11 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 2
 Location : HRSG 22
 Finish time : 3:31 PM
 Serial No.: 121121-9
 Serial No.: 433
 Serial No.: 118
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
3:11 PM	14.86	8.08	0.11
3:12 PM	14.86	8.06	0.08
3:13 PM	14.86	8.22	0.09
3:14 PM	14.86	8.20	0.10
3:15 PM	14.86	8.11	0.09
3:16 PM	14.86	8.14	0.09
3:17 PM	14.86	8.12	0.12
3:18 PM	14.86	8.27	0.11
3:19 PM	14.86	8.28	0.09
3:20 PM	14.85	8.29	0.10
3:21 PM	14.86	8.22	0.10
3:22 PM	14.86	8.11	0.10
3:23 PM	14.86	8.16	0.08
3:24 PM	14.86	8.17	0.11
3:25 PM	14.86	8.06	0.12
3:26 PM	14.86	8.11	0.12
3:27 PM	14.86	8.14	0.12
3:28 PM	14.84	8.30	0.11
3:29 PM	14.86	8.17	0.11
3:30 PM	14.86	8.13	0.12
3:31 PM	14.86	8.06	0.12
Average	14.86	8.16	0.10

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Ratchaburi World Cogeneration Co.,Ltd EMISSION TEST RESULT

Date: November 14, 2025
 Start time: 3:32 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 3
 Location : HRSG 22
 Finish time : 3:52 PM
 Serial No.: 121121-9
 Serial No.: 433
 Serial No.: 118
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
3:32 PM	14.86	8.07	0.12
3:33 PM	14.85	8.15	0.12
3:34 PM	14.86	8.12	0.11
3:35 PM	14.85	8.29	0.12
3:36 PM	14.84	8.38	0.10
3:37 PM	14.82	8.45	0.13
3:38 PM	14.83	8.40	0.12
3:39 PM	14.83	8.40	0.11
3:40 PM	14.81	8.40	0.12
3:41 PM	14.82	8.25	0.13
3:42 PM	14.83	8.25	0.13
3:43 PM	14.84	8.25	0.13
3:44 PM	14.84	8.22	0.13
3:45 PM	14.84	8.04	0.13
3:46 PM	14.84	8.16	0.12
3:47 PM	14.83	8.18	0.12
3:48 PM	14.84	8.20	0.15
3:49 PM	14.83	8.11	0.12
3:50 PM	14.84	8.00	0.13
3:51 PM	14.84	8.14	0.12
3:52 PM	14.83	8.17	0.11
Average	14.84	8.22	0.12

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

คุณภาพน้ำทิ้ง



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

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1248/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 04/07/2025	SAMPLING TIME	: 11:10
RECEIVED DATE	: 05/07/2025	ANALYTICAL DATE	: 05-14/07/2025
REPORT DATE	: 15/07/2025	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 225011_WW_July
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				I	
Flow Rate*	m ³ /hr	-	-	123	-
Temperature	°C	2550 B	< 0.5	33.7	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.00	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	21.7	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	1,308	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	5.2	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	0.05	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.4	≤ 500
COD	mg/l	5220 D	< 40.00	41.83	≤ 750

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๖-239-ก-0004

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

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3. ^{1/} Notification of the Industrial Estate Authority of Thailand No.029, B.E.2567 (2024).

4. * Not registered with the Department of Industrial Works.

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1248/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 04/07/2025	SAMPLING TIME	: 10:50
RECEIVED DATE	: 05/07/2025	ANALYTICAL DATE	: 05-14/07/2025
REPORT DATE	: 15/07/2025	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 225011_WW_July
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				2	
Flow Rate*	m ³ /hr	-	-	0.1	-
Temperature	°C	2550 B	< 0.5	31.0	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.48	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	86.2	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	354	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	52	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	8.2	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	178	≤ 500
COD	mg/l	5220 D	< 40.00	379	≤ 750

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๖-239-ก-0004

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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	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1390/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 01/08/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 01/08/2025	SAMPLING TIME	: 09:30
ANALYTICAL DATE	: 01/08/2025	SITE OPERATOR	: Miss Salisa Ainree
REPORT DATE	: 11/08/2025		: -
SAMPLE CONDITION	: เหลืองใส	FILE CODE	: 225011_WW_August
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION I	STANDARD
Flow Rate	m ³ /hr	-	-	121	-

Khemchuda Inorn

(Miss Khemchuda Inorn)

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1390/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 2-239
SAMPLING DATE	: 01/08/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 02/08/2025	SAMPLING TIME	: 09:30
ANALYTICAL DATE	: 02-11/08/2025	SITE OPERATOR	: Miss Salisa Ainree
REPORT DATE	: 11/08/2025		: 2-239-ท-0039
SAMPLE CONDITION	: เหลืองใส	FILE CODE	: 225011_WW_August
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION I	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	32.1	≤ 45
pH	-	4500-H ⁺ B	< 0.10	6.52	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	20.1	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	1,048	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	20	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.6	≤ 500
COD	mg/l	5220 D	< 40.00	53.49	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 19th ED., 2017 (AWWA, APHA, WEF)

Khemchuda Inorn

(Miss Khemchuda Inorn)

Analyst

REG. NO. 2-239-ท-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ท-0004

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3. ^{1/} Notification of the Industrial Estate Authority of Thailand No.029, B.E.2567 (2024).
4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1390/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 01/08/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 01/08/2025	SAMPLING TIME	: 09:41
ANALYTICAL DATE	: 01/08/2025	SITE OPERATOR	: Miss Salisa Ainree
REPORT DATE	: 11/08/2025		: -
SAMPLE CONDITION	: เหลืองขุ่น	FILE CODE	: 225011_WW_August
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 2	STANDARD
Flow Rate	m ³ /hr	-	-	0.1	-

Khemchuda Insorn

(Miss Khemchuda Insorn)

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1390/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 7-239
SAMPLING DATE	: 01/08/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 02/08/2025	SAMPLING TIME	: 09:41
ANALYTICAL DATE	: 02-11/08/2025	SITE OPERATOR	: Miss Salisa Ainree
REPORT DATE	: 11/08/2025		: 7-239-ท-0039
SAMPLE CONDITION	: เหลืองขุ่น	FILE CODE	: 225011_WW_August
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 2	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	33.2	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.58	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	113	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 2.5	434	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	60	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	7.9	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	112	≤ 500
COD	mg/l	5220 D	< 40.00	340	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd 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

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4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1712/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 10/09/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 10/09/2025	SAMPLING TIME	: 09:08
ANALYTICAL DATE	: 10/09/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
REPORT DATE	: 19/09/2025		: -
SAMPLE CONDITION	: เหลืองใส	FILE CODE	: 225011_WW_September
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				I	
Flow Rate	m ³ /hr	-	-	131	-

(Mrs. Araya Tipparuk)
Technical Management Team

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3. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1712/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 7-239
SAMPLING DATE	: 10/09/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 11/09/2025	SAMPLING TIME	: 09:08
ANALYTICAL DATE	: 11-18/09/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
REPORT DATE	: 19/09/2025		: 7-239-0-0005
SAMPLE CONDITION	: เหลืองใส	FILE CODE	: 225011_WW_September
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				I	
Temperature	°C	2550 B	< 0.5	28.6	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.04	5.5 -9.0
Color	ADMI	2120 F	< 6.0	26.3	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	1,354	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	10	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	0.12	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.0	≤ 500
COD	mg/l	5220 D	< 40.00	< 40.00	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st 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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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1712/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 10/09/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 10/09/2025	SAMPLING TIME	: 08:54
ANALYTICAL DATE	: 10/09/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
REPORT DATE	: 19/09/2025		: -
SAMPLE CONDITION	: เครื่องสูบน้ำใกล้กันเหม็น	FILE CODE	: 225011_WW_September
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD
		METHODS	(non-detectable)	2	
Flow Rate	m ³ /hr	-	-	0.1	-

(Mrs. Araya Tipparuk)
Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1712/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 2-239
SAMPLING DATE	: 10/09/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 11/09/2025	SAMPLING TIME	: 08:54
ANALYTICAL DATE	: 11-18/09/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
REPORT DATE	: 19/09/2025		: 2-239-ท-0005
SAMPLE CONDITION	: เครื่องสูบน้ำใกล้กันเหม็น	FILE CODE	: 225011_WW_September
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD ^{1/}
		METHODS	(non-detectable)	2	
Temperature	°C	2550 B	< 0.5	29.5	≤ 45
pH	-	4500-H ⁺ B	< 0.10	6.93	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	180	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	482	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	54	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	6.2	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	157	≤ 500
COD	mg/l	5220 D	< 40.00	517	≤ 750

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

(Miss Khemchuda Insorn)
Analyst
REG. NO. 2-239-ท-0005

(Mrs. Araya Tipparuk)
Technical Management Team
REG. NO. 2-239-ท-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1882/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 03/10/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 03/10/2025	SAMPLING TIME	: 09:57
ANALYTICAL DATE	: 03/10/2025	SITE OPERATOR	: Mr. Jeerawat Khotamhan
REPORT DATE	: 14/10/2025		: -
SAMPLE CONDITION	: เหลืองขุน	FILE CODE	: 225011_WW_October
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				I	
Flow Rate	m ³ /hr	-	-	134	-


(Mrs. Araya Tipparuk)
Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1882/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 7-239
SAMPLING DATE	: 03/10/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 04/10/2025	SAMPLING TIME	: 09:57
ANALYTICAL DATE	: 04-14/10/2025	SITE OPERATOR	: Mr. Jeerawat Khotamhan
REPORT DATE	: 14/10/2025		: 7-239-0-0025
SAMPLE CONDITION	: เหลืองขุน	FILE CODE	: 225011_WW_October
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				I	
Temperature	°C	2550 B	< 0.5	32.0	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.85	5.5 -9.0
Color	ADMI	2120 F	< 6.0	21.6	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	1,568	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	11	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	0.05	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.2	≤ 500
COD	mg/l	5220 D	< 40.00	65.90	≤ 750

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


(Miss Khemchuda Insom)
Analyst
REG. NO. 7-239-0-0005


(Mrs. Araya Tipparuk)
Technical Management Team
REG. NO. 7-239-0-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1882/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 03/10/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 03/10/2025	SAMPLING TIME	: 09:29
ANALYTICAL DATE	: 03/10/2025	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 14/10/2025		: -
SAMPLE CONDITION	: เหลืองใส	FILE CODE	: 225011_WW_October
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 2	STANDARD
Flow Rate	m ³ /hr	-	-	0.1	-

(Mrs. Araya Tipparuk)
Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 1882/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 7-239
SAMPLING DATE	: 03/10/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 04/10/2025	SAMPLING TIME	: 09:29
ANALYTICAL DATE	: 04-14/10/2025	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 14/10/2025		: 7-239-ท-0025
SAMPLE CONDITION	: เหลืองใส	FILE CODE	: 225011_WW_October
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 2	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	30.4	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.54	5.5 -9.0
Color	ADMI	2120 F	< 6.0	134	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	546	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	60	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	2.6	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	167	≤ 500
COD	mg/l	5220 D	< 40.00	379	≤ 750

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ท-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ท-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 2164/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 13/11/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 13/11/2025	SAMPLING TIME	: 08:46
ANALYTICAL DATE	: 13/11/2025	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/11/2025		: -
SAMPLE CONDITION	: เหลือมีตะกอน	FILE CODE	: 225011_WW_November
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				I	
Flow Rate	m ³ /hr	-	-	137	-


(Mrs. Araya Tipparuk)
Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 2164/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 7-239
SAMPLING DATE	: 13/11/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 14/11/2025	SAMPLING TIME	: 08:46
ANALYTICAL DATE	: 14-19/11/2025	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/11/2025		: 7-239-ท-0025
SAMPLE CONDITION	: เหลือมีตะกอน	FILE CODE	: 225011_WW_November
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				I	
Temperature	°C	2550 B	< 0.5	30.9	≤ 45
pH	-	4500-H ⁺ B	< 0.10	6.85	5.5 -9.0
Color	ADMI	2120 F	< 6.0	20.3	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	1,585	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	5.8	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	0.05	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.0	≤ 500
COD	mg/l	5220 D	< 10.00	37.71	≤ 750

REFERENCE - STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 24th ED. 2021 (AWWA, APHA, WEF)


(Miss Khemchuda Insorn)
Analyst
REG. NO. 7-239-ท-0005


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

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 2164/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 13/11/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 13/11/2025	SAMPLING TIME	: 08:20
ANALYTICAL DATE	: 13/11/2025	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/11/2025		: -
SAMPLE CONDITION	: เหลืองขุน	FILE CODE	: 225011_WW_November
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 2	STANDARD
Flow Rate	m ³ /hr	-	-	0.1	-

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 2164/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 2-239
SAMPLING DATE	: 13/11/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 14/11/2025	SAMPLING TIME	: 08:20
ANALYTICAL DATE	: 14-19/11/2025	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/11/2025		: 2-239-จ-0025
SAMPLE CONDITION	: เหลืองขุน	FILE CODE	: 225011_WW_November
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 2	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	29.1	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.56	5.5 -9.0
Color	ADMI	2120 F	< 6.0	157	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	558	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	40	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	ND	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	3.1	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	165	≤ 500
COD	mg/l	5220 D	< 10.00	446	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 24th ED. 2021 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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4. - Not available.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 2286/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 02/12/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 02/12/2025	SAMPLING TIME	: 11:30
ANALYTICAL DATE	: 02/12/2025	SITE OPERATOR	: Mr. Chitpon Somprasong
REPORT DATE	: 10/12/2025		: -
SAMPLE CONDITION	: เหลืองใสมีตะกอน	FILE CODE	: 225011_WW_December
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				1	
Flow Rate	m ³ /hr	-	-	130	-

(Mrs. Araya Tipparuk)
Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 2286/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 7-239
SAMPLING DATE	: 02/12/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 03/12/2025	SAMPLING TIME	: 11:30
ANALYTICAL DATE	: 03-09/12/2025	SITE OPERATOR	: Mr. Chitpon Somprasong
REPORT DATE	: 10/12/2025		: 7-239-ท-0008
SAMPLE CONDITION	: เหลืองใสมีตะกอน	FILE CODE	: 225011_WW_December
SAMPLE DESCRIPTION	: 1 = จุดปล่อยน้ำทิ้งของโครงการ (Holding Basin) ก่อนระบายออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				1	
Temperature	°C	2550 B	< 0.5	28.1	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.14	5.5 -9.0
Color	ADMI	2120 F	< 6.0	41.6	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	1,268	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	11	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	0.02	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.3	≤ 500
COD	mg/l	5220 D	< 10.00	43.53	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 24th ED, 2021 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ท-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ท-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	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 2286/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: -
SAMPLING DATE	: 02/12/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 02/12/2025	SAMPLING TIME	: 11:20
ANALYTICAL DATE	: 02/12/2025	SITE OPERATOR	: Mr. Chitpon Somprasong
REPORT DATE	: 10/12/2025		: -
SAMPLE CONDITION	: เหลือขุ่น	FILE CODE	: 225011_WW_December
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 2	STANDARD
Flow Rate	m ³ /hr	-	-	0.1	-

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(Mrs. Araya Tipparuk)
Technical Management Team



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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	: Ratchaburi World Cogeneration Co., Ltd.	REQUEST SERVICE No.	: 2286/68
SAMPLING BY	: SECOT Co., Ltd.	REGISTRATION No.	: 2-239
SAMPLING DATE	: 02/12/2025	SAMPLING METHOD	: Grab
RECEIVED DATE	: 03/12/2025	SAMPLING TIME	: 11:20
ANALYTICAL DATE	: 03-09/12/2025	SITE OPERATOR	: Mr. Chitpon Somprasong
REPORT DATE	: 10/12/2025		: 2-239-ก-0008
SAMPLE CONDITION	: เหลือขุ่น	FILE CODE	: 225011_WW_December
SAMPLE DESCRIPTION	: 2 = จุดปล่อยน้ำทิ้งของอาคารสำนักงาน ก่อนปล่อยออกสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 2	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	27.4	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.59	5.5 -9.0
Color	ADMI	2120 F	< 6.0	173	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 25	484	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	52	≤ 200
Free Chlorine	mg/l	4500-Cl G	< 0.01	0.01	≤ 1
Fat Oil & Grease	mg/l	5520 B	< 2.0	6.2	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	151	≤ 500
COD	mg/l	5220 D	< 10.00	393	≤ 750

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

(Miss Khemchuda Insorn)

Analyst
REG. NO. 2-239-ก-0005

- Remark : 1. Reported analysis refers to submitted sample only.
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3. ^{1/} Notification of the Industrial Estate Authority of Thailand No.029, B.E.2567 (2024).
4. - Not available.

(Mrs. Araya Tipparuk)

Technical Management Team
REG. NO. 2-239-ก-0004

ระดับเสียงทั่วไปในบรรยากาศ



Noise Monitoring Result : Community Noise MTR-RW Cogen

Location : West Fence

Monitor Period : 12-17 Nov 2025

SLM Model : Cirrus CR161B

Serial No : G303827

Site Operator : Mr. Wittaya Krataychan

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 : 26 Feb 2026

Cal Sheet No.: CR-515-2025-299

Time	Equivalent Sound Pressure Level (dB(A))				
	12-13 Nov 2025	13-14 Nov 2025	14-15 Nov 2025	15-16 Nov 2025	16-17 Nov 2025
14:00 - 15:00	57.5	57.2	63.3	58.2	55.0
15:00 - 16:00	58.0	57.2	62.8	58.8	58.0
16:00 - 17:00	57.8	57.7	60.3	57.6	57.2
17:00 - 18:00	65.4	65.4	65.4	64.6	64.6
18:00 - 19:00	64.6	63.7	64.6	65.1	64.9
19:00 - 20:00	57.4	56.5	59.0	56.3	55.3
20:00 - 21:00	57.1	57.4	59.8	55.8	55.0
21:00 - 22:00	56.5	56.3	58.6	55.4	54.3
22:00 - 23:00	56.6	56.5	57.0	54.5	54.1
23:00 - 00:00	55.0	61.4	57.4	55.5	55.1
00:00 - 01:00	55.1	56.5	57.8	56.5	56.5
01:00 - 02:00	54.5	62.8	56.4	54.3	55.0
02:00 - 03:00	54.8	57.0	55.3	54.0	54.9
03:00 - 04:00	57.4	57.2	57.0	56.6	56.6
04:00 - 05:00	62.2	61.1	61.0	60.3	61.1
05:00 - 06:00	64.6	65.7	63.9	64.1	64.4
06:00 - 07:00	62.6	60.8	59.2	58.8	61.6
07:00 - 08:00	57.2	56.9	56.0	54.2	56.3
08:00 - 09:00	57.2	57.0	57.1	56.2	57.6
09:00 - 10:00	57.3	57.6	57.5	57.1	56.8
10:00 - 11:00	57.6	57.3	57.2	55.7	57.6
11:00 - 12:00	57.6	60.0	57.1	54.9	58.1
12:00 - 13:00	55.7	56.3	55.3	52.5	55.2
13:00 - 14:00	56.9	63.0	58.2	55.4	58.5
Leq(24)*	59.6	60.3	60.2	58.8	59.1
Ldn	66.2	67.3	65.8	65.0	65.6
Lmax **	82.3	87.1	79.0	77.0	77.8
Standard-24Hr	70 dB(A)				
Standard-Max	115 dB(A)				

Remark : * Average time between 14:00-14:00

** Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-RW Cogen

Location : West Fence

Monitor Period : 12-17 Nov 2025

SLM Model : Cirrus CR161B

Serial No : G303827

Site Operator : Mr. Wittaya Krataychan

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 : 26 Feb 2026

Cal Sheet No.: CR-515-2025-299

Time	L90 (dB(A))				
	12-13 Nov 2025	13-14 Nov 2025	14-15 Nov 2025	15-16 Nov 2025	16-17 Nov 2025
14:00 - 15:00	54.5	55.2	59.3	56.3	53.5
15:00 - 16:00	55.2	55.6	59.3	56.4	54.8
16:00 - 17:00	55.9	55.9	57.2	55.8	55.0
17:00 - 18:00	60.0	59.3	59.1	57.6	56.6
18:00 - 19:00	57.3	56.3	59.0	58.5	56.2
19:00 - 20:00	55.9	55.1	56.8	55.2	54.2
20:00 - 21:00	55.2	55.7	58.3	54.9	54.0
21:00 - 22:00	55.5	55.3	57.0	54.6	53.8
22:00 - 23:00	55.4	54.6	54.6	53.2	53.7
23:00 - 00:00	54.5	55.2	55.7	53.3	54.1
00:00 - 01:00	54.5	54.8	56.3	53.9	55.1
01:00 - 02:00	54.1	54.8	54.5	53.5	54.6
02:00 - 03:00	54.3	55.3	54.8	53.3	54.4
03:00 - 04:00	55.5	55.9	55.6	54.5	55.0
04:00 - 05:00	59.3	58.8	58.8	58.2	58.6
05:00 - 06:00	60.0	63.7	61.8	62.4	62.1
06:00 - 07:00	55.8	54.8	54.7	53.1	54.1
07:00 - 08:00	55.2	54.7	54.4	52.6	53.9
08:00 - 09:00	55.1	54.7	55.1	53.8	54.4
09:00 - 10:00	55.5	55.1	55.9	54.7	54.8
10:00 - 11:00	55.6	55.5	55.5	53.8	55.5
11:00 - 12:00	55.3	56.6	55.0	52.5	55.0
12:00 - 13:00	54.2	54.2	54.3	51.6	54.0
13:00 - 14:00	54.7	58.3	55.9	52.8	55.5
L90(avg)*	56.2	56.8	57.1	55.7	55.7

Remark : * Average time between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-RW Cogen

Location : Plai Klong makham Community Monitor Period : 12-17 Nov 2025
SLM Model : Cirrus CR161B Serial No : G303821
Site Operator : Mr. Wittaya Krataychan

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 : 26 Feb 2026
Cal Sheet No.: CR-515-2025-299

Time	Equivalent Sound Pressure Level (dB(A))				
	12-13 Nov 2025	13-14 Nov 2025	14-15 Nov 2025	15-16 Nov 2025	16-17 Nov 2025
12:00 - 13:00	49.8	45.2	59.2	46.5	47.0
13:00 - 14:00	43.4	44.4	51.8	47.6	48.5
14:00 - 15:00	47.8	41.8	43.9	46.0	45.5
15:00 - 16:00	46.3	45.2	45.4	46.3	43.8
16:00 - 17:00	46.1	45.2	46.7	46.1	57.7
17:00 - 18:00	50.3	56.7	52.0	50.0	49.7
18:00 - 19:00	54.1	52.0	52.9	53.5	51.1
19:00 - 20:00	49.9	50.1	50.5	50.4	52.1
20:00 - 21:00	50.6	51.2	51.1	51.0	51.7
21:00 - 22:00	50.3	51.2	51.3	51.0	50.9
22:00 - 23:00	50.1	48.2	50.8	51.7	50.7
23:00 - 00:00	49.6	59.9	49.8	53.3	51.4
00:00 - 01:00	49.1	53.1	52.9	53.3	50.6
01:00 - 02:00	48.2	63.3	50.4	53.0	48.1
02:00 - 03:00	53.3	51.2	50.4	50.3	47.3
03:00 - 04:00	48.9	50.3	49.8	47.5	46.5
04:00 - 05:00	47.6	52.0	47.4	50.0	46.2
05:00 - 06:00	48.2	55.8	59.3	56.7	47.8
06:00 - 07:00	58.0	54.6	53.0	58.8	49.9
07:00 - 08:00	48.6	50.4	55.5	56.0	60.0
08:00 - 09:00	50.8	46.9	47.2	48.0	45.6
09:00 - 10:00	50.3	48.2	45.8	45.7	48.3
10:00 - 11:00	46.9	44.9	44.9	46.5	46.1
11:00 - 12:00	41.6	51.8	45.4	44.0	44.2
Leq(24)*	50.5	54.0	52.4	51.9	51.4
Ldn	58.0	62.8	59.3	60.0	56.2
Lmax **	84.0	92.0	89.3	85.3	88.3
Standard-24Hr	70 dB(A)				
Standard-Max	115 dB(A)				

Remark : * Average time between 12:00-12:00

** Maximum Sound Pressure Level between 12:00-12:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

SECOT CO.,LTD

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Bangnae, Bangkok 10800

Tel: +66(0)2959-3600 Fax: +66(0)2959-3535



Noise Monitoring Result : Background Noise MTR-RW Cogen

Location : Plai Klong makham Community Monitor Period : 12-17 Nov 2025
SLM Model : Cirrus CR161B Serial No : G303821
Site Operator : Mr. Wittaya Krataychan

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 : 26 Feb 2026
Cal Sheet No.: CR-515-2025-299

Time	L90 (dB(A))				
	12-13 Nov 2025	13-14 Nov 2025	14-15 Nov 2025	15-16 Nov 2025	16-17 Nov 2025
12:00 - 13:00	36.5	38.9	41.0	42.3	38.6
13:00 - 14:00	36.5	38.6	40.1	43.2	39.5
14:00 - 15:00	37.3	38.9	39.9	43.3	39.3
15:00 - 16:00	38.8	39.3	41.1	43.1	40.5
16:00 - 17:00	43.2	42.2	42.4	42.9	41.5
17:00 - 18:00	44.1	43.5	44.7	44.8	44.2
18:00 - 19:00	46.5	44.5	46.5	45.9	46.3
19:00 - 20:00	49.0	48.8	49.8	49.0	51.1
20:00 - 21:00	49.8	50.5	49.9	49.7	51.1
21:00 - 22:00	49.6	48.7	50.2	49.9	49.6
22:00 - 23:00	49.4	45.3	49.7	50.5	49.9
23:00 - 00:00	47.7	42.9	47.1	51.8	50.4
00:00 - 01:00	47.5	44.7	46.9	51.5	49.3
01:00 - 02:00	46.5	45.1	49.2	51.1	46.3
02:00 - 03:00	45.0	47.9	49.5	48.6	46.0
03:00 - 04:00	45.7	49.4	48.4	44.8	45.7
04:00 - 05:00	45.9	51.0	45.5	43.7	45.0
05:00 - 06:00	43.3	48.9	43.6	43.8	43.6
06:00 - 07:00	44.5	45.0	44.6	45.7	42.9
07:00 - 08:00	44.8	44.3	44.4	44.0	43.5
08:00 - 09:00	43.7	41.0	40.7	42.4	42.3
09:00 - 10:00	41.7	40.3	40.4	39.9	40.2
10:00 - 11:00	38.7	38.1	40.4	38.9	40.1
11:00 - 12:00	38.9	39.1	41.7	38.6	40.5
L90(avg)*	45.6	45.9	46.3	47.1	46.3

Remark : * Average time between 12:00-12:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

SECOT CO.,LTD

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Bangnae, Bangkok 10800

Tel: +66(0)2959-3600 Fax: +66(0)2959-3535

ระดับเสียงในสถานที่ทำงาน



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: GTG 11	MEASUREMENT DATE	: 01/08/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 821082
SITE OPERATOR	: Miss Salisa Ainree		

CALIBRATOR MODEL	: Citrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02/10/2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01/10/2025
CAL SHEET No.	: CAL-2508-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	01/08/2025
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	
08:00 - 09:00	79.8
09:00 - 10:00	80.0
10:00 - 11:00	80.6
11:00 - 12:00	78.6
12:00 - 13:00	79.1
13:00 - 14:00	79.3
14:00 - 15:00	79.7
15:00 - 16:00	80.0
16:00 - 17:00	
17:00 - 18:00	
18:00 - 19:00	
19:00 - 20:00	
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	

Leq(8)	79.7
Lmax	85.3
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: GTG 12	MEASUREMENT DATE	: 01/08/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 821081
SITE OPERATOR	: Miss Salisa Ainree		

CALIBRATOR MODEL	: Citrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02/10/2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01/10/2025
CAL SHEET No.	: CAL-2508-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	01/08/2025
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	
08:00 - 09:00	78.7
09:00 - 10:00	78.9
10:00 - 11:00	78.7
11:00 - 12:00	79.0
12:00 - 13:00	79.1
13:00 - 14:00	79.2
14:00 - 15:00	79.1
15:00 - 16:00	79.3
16:00 - 17:00	
17:00 - 18:00	
18:00 - 19:00	
19:00 - 20:00	
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	

Leq(8)	79.0
Lmax	82.8
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: GTG 21	MEASUREMENT DATE	: 01/08/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 821078
SITE OPERATOR	: Miss Salisa Ainree		

CALIBRATOR MODEL	: Citrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02/10/2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01/10/2025
CAL SHEET No.	: CAL-2508-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	01/08/2025	
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		
08:00 - 09:00	81.9	
09:00 - 10:00	82.4	
10:00 - 11:00	82.3	
11:00 - 12:00	80.1	
12:00 - 13:00	81.6	
13:00 - 14:00	81.9	
14:00 - 15:00	81.7	
15:00 - 16:00	81.5	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		

Leq(8)	81.7
Lmax	85.7
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: GTG 22	MEASUREMENT DATE	: 01/08/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 821079
SITE OPERATOR	: Miss Salisa Ainree		

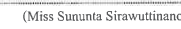
CALIBRATOR MODEL	: Citrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02/10/2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01/10/2025
CAL SHEET No.	: CAL-2508-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	01/08/2025	
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		
08:00 - 09:00	77.2	
09:00 - 10:00	77.0	
10:00 - 11:00	77.3	
11:00 - 12:00	78.2	
12:00 - 13:00	77.1	
13:00 - 14:00	77.1	
14:00 - 15:00	77.2	
15:00 - 16:00	77.2	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		

Leq(8)	77.3
Lmax	85.4
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: Air Compressor Block 1	MEASUREMENT DATE	: 01/08/2025
SLM MODEL	: Cirrus CR162C	SERIAL No.	: G300832
SITE OPERATOR	: Miss Salisa Ainree		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.7	CERTIFIED DATE	: 02/10/2024
SLM READING/ADJUST dB(A)	: 93.7/0.0	EXPIRE DATE	: 01/10/2025
CAL SHEET No.	: CAL-2508-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	01/08/2025	
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		
08:00 - 09:00	75.5	
09:00 - 10:00	75.8	
10:00 - 11:00	76.2	
11:00 - 12:00	75.5	
12:00 - 13:00	75.5	
13:00 - 14:00	75.7	
14:00 - 15:00	75.7	
15:00 - 16:00	75.7	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		

Leq(8)	75.7
Lmax	78.8
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: Air Compressor Block 2	MEASUREMENT DATE	: 01/08/2025
SLM MODEL	: Cirrus CR162C	SERIAL No.	: G300841
SITE OPERATOR	: Miss Salisa Ainree		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.7	CERTIFIED DATE	: 02/10/2024
SLM READING/ADJUST dB(A)	: 93.7/0.0	EXPIRE DATE	: 01/10/2025
CAL SHEET No.	: CAL-2508-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	01/08/2025	
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		
08:00 - 09:00	74.9	
09:00 - 10:00	74.9	
10:00 - 11:00	74.7	
11:00 - 12:00	74.7	
12:00 - 13:00	74.6	
13:00 - 14:00	74.6	
14:00 - 15:00	74.7	
15:00 - 16:00	74.9	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		

Leq(8)	74.8
Lmax	80.8
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Suunta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: STG 1	MEASUREMENT DATE	: 01/08/2025
SLM MODEL	: Cirrus CR162C	SERIAL No.	: G300838
SITE OPERATOR	: Miss Salisa Ainree		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.7	CERTIFIED DATE	: 02/10/2024
SLM READING/ADJUST dB(A)	: 93.7/0.0	EXPIRE DATE	: 01/10/2025
CAL SHEET No.	: CAL-2508-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	01/08/2025	
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		
08:00 - 09:00	80.4	
09:00 - 10:00	80.6	
10:00 - 11:00	80.6	
11:00 - 12:00	82.0	
12:00 - 13:00	81.3	
13:00 - 14:00	80.1	
14:00 - 15:00	80.0	
15:00 - 16:00	80.7	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		

Leq(8)	80.8
Lmax	86.4
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546

(Miss Katesarin Vorradetwitaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: STG 2	MEASUREMENT DATE	: 01/08/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 821080
SITE OPERATOR	: Miss Salisa Ainree		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02/10/2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01/10/2025
CAL SHEET No.	: CAL-2508-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	01/08/2025	
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		
08:00 - 09:00	81.2	
09:00 - 10:00	81.6	
10:00 - 11:00	80.4	
11:00 - 12:00	79.7	
12:00 - 13:00	80.8	
13:00 - 14:00	81.0	
14:00 - 15:00	80.6	
15:00 - 16:00	80.0	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		

Leq(8)	80.7
Lmax	90.8
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546

(Miss Katesarin Vorradetwitaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

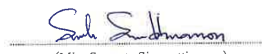
MTR-RW Cogen

LOCATION	: GTG 11	MEASUREMENT DATE	: 07/11/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820731
SITE OPERATOR	: Mr. Pongsiri Jukkeaw		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 27/02/2025
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 26/02/2026
CAL SHEET No.	: CAL-2511-0045-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	07/11/2025
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	
08:00 - 09:00	78.3
09:00 - 10:00	78.2
10:00 - 11:00	78.3
11:00 - 12:00	79.3
12:00 - 13:00	79.9
13:00 - 14:00	79.7
14:00 - 15:00	79.5
15:00 - 16:00	79.6
16:00 - 17:00	
17:00 - 18:00	
18:00 - 19:00	
19:00 - 20:00	
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(8)	79.1
Lmax	95.5
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradevittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

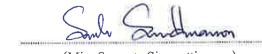
MTR-RW Cogen

LOCATION	: GTG 12	MEASUREMENT DATE	: 07/11/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820730
SITE OPERATOR	: Mr. Pongsiri Jukkeaw		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 27/02/2025
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 26/02/2026
CAL SHEET No.	: CAL-2511-0045-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	07/11/2025
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	
08:00 - 09:00	66.4
09:00 - 10:00	64.6
10:00 - 11:00	64.8
11:00 - 12:00	80.0
12:00 - 13:00	81.1
13:00 - 14:00	79.1
14:00 - 15:00	78.9
15:00 - 16:00	79.0
16:00 - 17:00	
17:00 - 18:00	
18:00 - 19:00	
19:00 - 20:00	
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(8)	77.8
Lmax	100.1
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradevittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: GTG 21	MEASUREMENT DATE	: 07/11/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 821079
SITE OPERATOR	: Mr. Pongsiri Jukkeaw		


CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 27/02/2025
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 26/02/2026
CAL SHEET No.	: CAL-2511-0045-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	07/11/2025
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	
08:00 - 09:00	79.4
09:00 - 10:00	79.2
10:00 - 11:00	79.1
11:00 - 12:00	78.6
12:00 - 13:00	79.5
13:00 - 14:00	79.8
14:00 - 15:00	79.8
15:00 - 16:00	80.0
16:00 - 17:00	
17:00 - 18:00	
18:00 - 19:00	
19:00 - 20:00	
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	

Leq(8)	79.4
Lmax	82.4
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

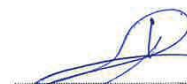
LOCATION	: GTG 22	MEASUREMENT DATE	: 07/11/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 821080
SITE OPERATOR	: Mr. Pongsiri Jukkeaw		


CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 27/02/2025
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 26/02/2026
CAL SHEET No.	: CAL-2511-0045-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	07/11/2025
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	
08:00 - 09:00	78.0
09:00 - 10:00	78.1
10:00 - 11:00	77.7
11:00 - 12:00	77.3
12:00 - 13:00	77.9
13:00 - 14:00	77.1
14:00 - 15:00	77.4
15:00 - 16:00	77.5
16:00 - 17:00	
17:00 - 18:00	
18:00 - 19:00	
19:00 - 20:00	
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	

Leq(8)	77.6
Lmax	82.7
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen


LOCATION	: Air Compressor Block 1	MEASUREMENT DATE	: 07/11/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 821078
SITE OPERATOR	: Mr. Pongsiri Jukkeaw		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 27/02/2025
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 26/02/2026
CAL SHEET No.	: CAL-2511-0045-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	07/11/2025	
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		
08:00 - 09:00	74.9	
09:00 - 10:00	74.8	
10:00 - 11:00	74.8	
11:00 - 12:00	74.8	
12:00 - 13:00	74.7	
13:00 - 14:00	74.7	
14:00 - 15:00	74.7	
15:00 - 16:00	74.8	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	74.8	
Lmax	80.5	
Standard*	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Strawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen


LOCATION	: Air Compressor Block 2	MEASUREMENT DATE	: 07/11/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820729
SITE OPERATOR	: Mr. Pongsiri Jukkeaw		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 27/02/2025
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 26/02/2026
CAL SHEET No.	: CAL-2511-0045-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	07/11/2025	
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		
08:00 - 09:00	76.2	
09:00 - 10:00	76.7	
10:00 - 11:00	76.1	
11:00 - 12:00	75.5	
12:00 - 13:00	75.5	
13:00 - 14:00	75.5	
14:00 - 15:00	75.6	
15:00 - 16:00	75.6	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	75.9	
Lmax	83.4	
Standard*	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Strawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: STG 1	MEASUREMENT DATE	: 07/11/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820723
SITE OPERATOR	: Mr. Pongsiri Jukkeaw		


CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 27/02/2025
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 26/02/2026
CAL SHEET No.	: CAL-2511-0045-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	07/11/2025	
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		
08:00 - 09:00	79.0	
09:00 - 10:00	79.3	
10:00 - 11:00	79.5	
11:00 - 12:00	79.9	
12:00 - 13:00	79.4	
13:00 - 14:00	78.5	
14:00 - 15:00	78.5	
15:00 - 16:00	78.6	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		

Leq(8)	79.1
Lmax	88.3
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-RW Cogen

LOCATION	: STG 2	MEASUREMENT DATE	: 07/11/2025
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820728
SITE OPERATOR	: Mr. Pongsiri Jukkeaw		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 27/02/2025
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 26/02/2026
CAL SHEET No.	: CAL-2511-0045-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	07/11/2025	
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		
08:00 - 09:00	80.2	
09:00 - 10:00	80.7	
10:00 - 11:00	80.5	
11:00 - 12:00	81.0	
12:00 - 13:00	81.6	
13:00 - 14:00	83.1	
14:00 - 15:00	82.9	
15:00 - 16:00	83.1	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		

Leq(8)	81.8
Lmax	88.0
Standard*	90 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


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(Miss Sununta Sirawuttinanon)
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ความร้อนในสถานที่ทำงาน



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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Ratchaburi World Cogeneration Co., Ltd. REFERENCE NO. : 225011-Heat-2511-0047
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 07/11/2025 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210178, 3522210177
SITE OPERATOR : Mr. Pongsiri Jukkeaw

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{Avg}	
HRSG 11	10:00-10:30	27.3	31.2	32.7	28.8	28.6	34.0
	10:30-11:00	26.9	30.6	32.4	28.4		
	11:00-11:30	26.8	30.4	32.3	28.2		
	11:30-12:00	27.5	31.8	32.8	29.0		
HRSG 12	10:00-10:30	26.7	30.1	32.2	28.1	28.5	34.0
	10:30-11:00	27.1	30.7	31.9	28.4		
	11:00-11:30	27.3	31.7	33.0	28.9		
	11:30-12:00	27.1	30.6	33.2	28.6		

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3. *WBGT Standard was notified by the Ministerial of Labor B.E.2559 (2016).

NWB = Natural Wet Bulb Temperature

DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

Work Load : Light work load = 34.0 °C, Moderate work load = 32.0 °C and Heavy work load = 30.0 °C



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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Ratchaburi World Cogeneration Co., Ltd. REFERENCE NO. : 225011-Heat-2511-0047
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 07/11/2025 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210172, 3522210174
SITE OPERATOR : Mr. Pongsiri Jukkeaw

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{Avg}	
HRSG 21	10:00-10:30	29.0	31.1	32.8	30.0	29.7	34.0
	10:30-11:00	28.7	31.1	33.4	29.9		
	11:00-11:30	28.5	30.8	33.1	29.6		
	11:30-12:00	28.0	30.3	32.5	29.1		
HRSG 22	10:00-10:30	28.5	30.6	32.7	29.6	29.9	34.0
	10:30-11:00	28.8	30.9	33.0	29.8		
	11:00-11:30	28.5	30.7	32.9	29.6		
	11:30-12:00	29.2	31.7	33.9	30.4		

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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Ratchaburi World Cogeneration Co., Ltd. REFERENCE NO. : 225011-Heat-2511-0047
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 07/11/2025 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210176, 3522210173
SITE OPERATOR : Mr. Pongsiri Jukkeaw

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{Avg}	
Generator 11	10:00-10:30	27.5	32.2	33.9	29.2	29.4	34.0
	10:30-11:00	27.7	32.1	33.0	29.2		
	11:00-11:30	27.8	32.2	33.4	29.3		
	11:30-12:00	27.9	32.7	34.5	29.7		
Generator 12	10:00-10:30	26.3	30.4	32.9	28.0	28.6	34.0
	10:30-11:00	26.5	31.2	34.1	28.5		
	11:00-11:30	26.9	31.7	34.0	28.8		
	11:30-12:00	26.7	32.1	35.4	29.0		


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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Ratchaburi World Cogeneration Co., Ltd. REFERENCE NO. : 225011-Heat-2511-0047
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 07/11/2025 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210179, 3522210180
SITE OPERATOR : Mr. Pongsiri Jukkeaw

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{Avg}	
Generator 21	10:00-10:30	27.9	29.9	32.3	29.0	29.7	34.0
	10:30-11:00	28.8	31.1	33.7	30.0		
	11:00-11:30	28.6	31.0	33.3	29.8		
	11:30-12:00	28.7	31.0	33.0	29.8		
Generator 22	10:00-10:30	27.2	31.0	33.0	28.7	28.8	34.0
	10:30-11:00	27.2	31.1	32.4	28.6		
	11:00-11:30	27.0	30.7	32.8	28.6		
	11:30-12:00	27.5	31.0	33.9	29.1		


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ความเข้มของแสงสว่าง



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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REFERENCE NO.	: 225011-Light-2505-0248
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 29/05/2025	MODEL	: 407026
MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			RESULT	STANDARD*
			DAYTIME	
อาคาร Office ชั้น 1				
โต๊ะทำงานคุณปภาวี นาคนงค์	งานเอกสาร/คอมพิวเตอร์	9:30	493	400-500
โต๊ะทำงานคุณ ไชติรส ชุนนกร	งานเอกสาร/คอมพิวเตอร์	9:31	488	400-500
โต๊ะทำงานคุณวิชรินี สถาพรวงศ์ศักดิ์	งานเอกสาร/คอมพิวเตอร์	9:31	446	400-500
โต๊ะทำงานคุณจิระ ผลอุดม	งานเอกสาร/คอมพิวเตอร์	9:33	430	400-500
โต๊ะทำงานคุณธนกฤต ศิริไธ	งานเอกสาร/คอมพิวเตอร์	9:35	477	400-500
โต๊ะทำงานคุณดาวัน สกุลแก้ว	งานเอกสาร/คอมพิวเตอร์	9:35	445	400-500
โต๊ะทำงานคุณดาวัน สกุลแก้ว (2)	งานเอกสาร/คอมพิวเตอร์	9:35	485	400-500
โต๊ะทำงานคุณณรินทร์ญา อธิวราสวัสดิ์	งานเอกสาร/คอมพิวเตอร์	9:34	469	400-500


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Environmental Scientist


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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REFERENCE NO.	: 225011-Light-2505-0248
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 29/05/2025	MODEL	: 407026
MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			RESULT	STANDARD*
			DAYTIME	
อาคาร Office ชั้น 1 (ต่อ)				
โต๊ะทำงานคุณพรณิภา เลาลัดดา	งานเอกสาร/คอมพิวเตอร์	9:36	469	400-500
โต๊ะทำงานคุณสกวาเดือน อมรปุระ	งานเอกสาร/คอมพิวเตอร์	9:36	480	400-500
โต๊ะทำงานคุณนพพล วุฒิมารักษ์	งานเอกสาร/คอมพิวเตอร์	9:41	497	400-500
โต๊ะทำงานคุณรัชพล ตู่แก้ว	งานเอกสาร/คอมพิวเตอร์	9:43	489	400-500
โต๊ะทำงานคุณเนติ คั่นขาวกุล	งานเอกสาร/คอมพิวเตอร์	9:42	495	400-500
โต๊ะทำงานคุณนคร อรรถสารโสภณ	งานเอกสาร/คอมพิวเตอร์	9:42	487	400-500
โต๊ะทำงานคุณชูศักดิ์ กลางทอง	งานเอกสาร/คอมพิวเตอร์	9:41	487	400-500


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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REFERENCE NO.	: 225011-Light-2505-0248
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 29/05/2025	MODEL	: 407026
MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		STANDARD*
			DAYTIME		
			AVERAGE	MINIMUM	
อาคาร Office ชั้น 1 (ต่อ)					
ห้องถ่ายเอกสาร	ถ่ายเอกสาร	9:38	358	-	≥300
			-	347	≥150
ห้องน้ำชาย	ห้องน้ำ	9:40	115	-	≥100
			-	101	≥50
ห้องน้ำหญิง	ห้องน้ำ	9:40	184	-	≥100
			-	182	≥50
ห้องพยาบาล RWC	พักฟื้น	9:30	459	-	≥50
			-	428	≥25
ทางเดินชั้น 1	ทางเดิน	9:44	136	-	≥100
			-	130	≥50
ห้องประชุมโพลิน	ประชุม	9:31	573	-	≥300
			-	485	≥150


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MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 29/05/2025	MODEL	: 407026
MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		STANDARD*
			DAYTIME		
			AVERAGE	MINIMUM	
<u>อาคาร Office ชั้น 1 (ต่อ)</u>					
ห้องเก็บของชั้น 1	ห้องเก็บของ	9:41	542	-	≥100
			-	512	≥50
บันไดขึ้น-ลงชั้น 1,2	บันได	9:46	138	-	≥100
			-	129	≥50
<u>อาคาร Office ชั้น 2</u>					
ห้องนิรภัย	เก็บของ	10:00	326	-	≥100
			-	312	≥50
ห้องน้ำชาย	ห้องน้ำ	9:59	163	-	≥100
			-	160	≥50
ห้องน้ำหญิง	ห้องน้ำ	9:59	241	-	≥100
			-	239	≥50


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MEASUREMENT DATE	: 29/05/2025	MODEL	: 407026
MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		STANDARD*
			DAYTIME		
			AVERAGE	MINIMUM	
อาคาร Office ชั้น 2 (ต่อ)					
ห้องประชุมทับทิม	ประชุม	9:59	347	-	≥300
			-	329	≥150
ห้องประชุมมรกต	ประชุม	9:58	364	-	≥300
			-	353	≥150
ห้องถ่ายเอกสาร	ถ่ายเอกสาร	9:57	438	-	≥300
			-	424	≥150
ทางเดินชั้น 2	ทางเดิน	9:47	131	-	≥100
			-	110	≥50
ห้องประชุมอัญมณี	ประชุม	9:57	379	-	≥300
			-	349	≥150

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

LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME	: Ratchaburi World Cogeneration Co., Ltd.	REFERENCE NO.	: 225011-Light-2505-0248
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 29/05/2025	MODEL	: 407026
MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			RESULT	STANDARD*
			DAYTIME	
อาคาร Office ชั้น 2 (ต่อ)				
โต๊ะทำงานคุณสุภาพร ลอดสันเชื้อะ	งานเอกสาร/คอมพิวเตอร์	10:05	472	400-500
โต๊ะทำงานคุณณัฐพร ลิขิตวัฒน์เศรษฐ	งานเอกสาร/คอมพิวเตอร์	10:05	489	400-500
โต๊ะทำงานคุณสุจิตรา คันทวีนิชา โกศล	งานเอกสาร/คอมพิวเตอร์	10:06	467	400-500
โต๊ะทำงานคุณขวัญศิริ	งานเอกสาร/คอมพิวเตอร์	10:06	484	400-500
โต๊ะทำงานคุณวิมล ศิริวัน	งานเอกสาร/คอมพิวเตอร์	10:06	498	400-500
โต๊ะทำงานคุณสุพัศรา ททรัพย์สิน	งานเอกสาร/คอมพิวเตอร์	10:03	480	400-500
โต๊ะทำงานคุณอรุณี พิริยะธนากรกุล	งานเอกสาร/คอมพิวเตอร์	9:49	419	400-500
โต๊ะทำงานคุณมนชัย เปรมศักดิ์	งานเอกสาร/คอมพิวเตอร์	9:48	497	400-500

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME : Ratchaburi World Cogeneration Co., Ltd. REFERENCE NO. : 225011-Light-2505-0248

MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter

MEASUREMENT DATE : 29/05/2025 MODEL : 407026

MEASUREMENT LOCATION : RW Cogen plant SERIAL NO. : A051053

SITE OPERATOR : Miss Salisa Ainree

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		STANDARD*
			DAYTIME		
			AVERAGE	MINIMUM	
อาคาร Canteen ชั้น 1					
ห้องน้ำชาย	ห้องน้ำ	10:11	155	-	≥100
			-	124	≥50
ห้องน้ำหญิง	ห้องน้ำ	10:10	174	-	≥100
			-	155	≥50
Canteen	โรงอาหาร	10:08-10:10	364	-	≥300
			-	318	≥150
อาคาร Canteen ชั้น 2					
ห้องประชุมเพทาย	ประชุม	9:52	345	-	≥300
			-	310	≥150
ห้องน้ำชาย	ห้องน้ำ	9:53	307	-	≥100
			-	215	≥50
ห้องน้ำหญิง	ห้องน้ำ	9:54	295	-	≥100
			-	237	≥50

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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME : Ratchaburi World Cogeneration Co., Ltd. REFERENCE NO. : 225011-Light-2505-0248

MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter

MEASUREMENT DATE : 29/05/2025 MODEL : 407026

MEASUREMENT LOCATION : RW Cogen plant SERIAL NO. : A051053

SITE OPERATOR : Miss Salisa Ainree

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			RESULT	STANDARD*
			DAYTIME	
อาคาร Workshop ชั้น 1				
โต๊ะทำงานคุณพัชรรัตน์ นพวิพร	งานเอกสาร/คอมพิวเตอร์	10:19	458	400-500
โต๊ะทำงานคุณปวีรัตน์ คุรุชานาค	งานเอกสาร/คอมพิวเตอร์	10:18	443	400-500
โต๊ะทำงานคุณนันทน์สิน เหล่าเพ็ง	งานเอกสาร/คอมพิวเตอร์	10:18	460	400-500

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MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 29/05/2025	MODEL	: 407026
MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		STANDARD*
			DAYTIME		
			AVERAGE	MINIMUM	
อาคาร Workshop ชั้น 1 (ต่อ)					
Warehouse B03-B05	เก็บของ	10:22	326	-	≥100
			-	315	≥50
Warehouse B11-B13	เก็บของ	10:22	344	-	≥100
			-	332	≥50
Warehouse B23-B25	เก็บของ	10:23	284	-	≥100
			-	269	≥50
Warehouse B31-B33	เก็บของ	10:23	278	-	≥100
			-	272	≥50
Warehouse A01-A03	เก็บของ	10:21	392	-	≥100
			-	372	≥50
Warehouse A05-A07	เก็บของ	10:21	210	-	≥100
			-	208	≥50
Warehouse A09-A11	เก็บของ	10:21	480	-	≥100
			-	465	≥50
บันไดทางขึ้น-ลง ชั้น 1,2	บันได	10:26	150	-	≥100
			-	113	≥50


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MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		STANDARD
			NIGHTTIME		
			AVERAGE	MINIMUM	
อาคาร Workshop ชั้น 1 (ต่อ)					
ห้องน้ำชาย	ห้องน้ำ	19:07	249	-	≥100
			-	215	≥50
ห้องน้ำหญิง	ห้องน้ำ	19:07	249	-	≥100
			-	232	≥50
Workshop	เตรียมการซ่อม	19:10-19:12	587	-	≥300
			-	479	≥150
บันไดทางฉุกเฉิน	บันไดทางฉุกเฉิน	19:21-19:23	24	-	≥10
เส้นทางหนีไฟ	เส้นทางหนีไฟ	19:34-19:36	11	-	≥10


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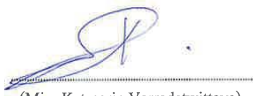
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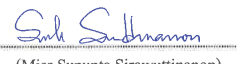
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MEASUREMENT DATE	: 29/05/2025	MODEL	: 407026
MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		STANDARD*
			NIGHTTIME		
			AVERAGE	MINIMUM	
อาคาร Workshop ชั้น 2					
ห้องประชุม	ประชุม	19:14	623	-	≥300
Pantry Room	เตรียมอาหาร	19:16	-	475	≥150
			474	-	≥300
ห้องน้ำชาย	ห้องน้ำ	19:15	-	409	≥150
			290	-	≥100
ห้องน้ำหญิง	ห้องน้ำ	19:15	-	262	≥50
			258	-	≥100
บันไดทางฉุกเฉิน	บันไดทางฉุกเฉิน	19:24-19:26	-	245	≥50
			29	-	≥10
เส้นทางหนีไฟ	เส้นทางหนีไฟ	19:31-19:33	23	-	≥10


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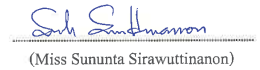
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MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		STANDARD*
			NIGHTTIME		
			AVERAGE	MINIMUM	
<u>อาคาร E&C</u>					
Pantry Room	เตรียมอาหาร	19:48	729	-	≥300
<u>ปั้มน รปภ.</u>			-	670	≥150
ปั้อม 1	ปั้อม รปภ.	20:10	290	-	≥100
ปั้อม 2	ปั้อม รปภ.	20:09	119	-	≥100


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SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			RESULT NIGHTTIME	STANDARD*
อาคาร Workshop ชั้น 2 (ต่อ)				
โต๊ะทำงานคุณทนง นิลอ่อน	งานเอกสาร/คอมพิวเตอร์	19:13	409	400-500
โต๊ะทำงานคุณจิรวัฒน์ เตื้อมุด	งานเอกสาร/คอมพิวเตอร์	19:13	491	400-500
อาคาร E&C (ต่อ)				
EOS2 (คุณวุฒิรัช สารบัว)	งานคอมพิวเตอร์	19:51	422	400-500
EOS7 (คุณชัยชาญ เลิศนภากุล)	งานคอมพิวเตอร์	19:50	451	400-500
โต๊ะทำงานคุณณัฐภูมิ นิลขาว	งานเอกสาร/คอมพิวเตอร์	19:51	470	400-500
โต๊ะทำงานคุณอภิชาติ ไช้มุก	งานเอกสาร/คอมพิวเตอร์	19:47	496	400-500
ห้อง Lab	วิเคราะห์	19:43	442	400-500
GTG#1 MCC11BF10	แผงควบคุม	19:45	247	200-300
Master Alarm NO.1	แผงควบคุม	19:46	269	200-300
อาคาร 22 KV				
แผงควบคุม 10AJ01	แผงควบคุม	19:38	261	200-300


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MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 29/05/2025	MODEL	: 407026
MEASUREMENT LOCATION	: RW Cogen plant	SERIAL NO.	: A051053
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			RESULT NIGHTTIME	STANDARD*
<u>อาคาร 115 KV</u>				
LPR3 Panel	แผงควบคุม	19:52	232	200-300
20AE00AR001	แผงควบคุม	19:53	251	200-300
<u>Process Area Block 1</u>				
HRSG2 Sampling System	ตรวจงานหยาบด้วยสายตา	20:01	242	200-300
Gas Compressor System Control	แผงควบคุม	20:07	247	200-300
<u>Process Area Block 2</u>				
11kv SEGR-GTG21 K03	แผงควบคุม	19:55	229	200-300
<u>อาคาร WTP</u>				
BOP Common	แผงควบคุม	19:58	292	200-300
Mixed Bed Exchanger-A	แผงควบคุม	19:59	291	200-300


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คุณภาพอากาศในสถานที่ทำงาน



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

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2127/68
For	: Ratchaburi World Cogeneration Co.,Ltd.	Sampling Date	: 07/11/2025
Address	: 155/115 Moo 4 Ratchaburi Industrial Estate, Chet Samain, Photharam, Ratchaburi 70120	Received Date	: 10/11/2025
		Test Date	: 15/11/2025
Tel/Fax	: - / -	Report Date	: 17/11/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				mg/m ³	mg/m ³	mg/m ³
Chemical feed Cooling Tower Block 1	07/11/2025 08:47-12:47	Sulfuric acid	NIOSH 7908/IC	< 0.002	ND	1 ^u 0.2 ^{2u}
Chemical feed Cooling Tower Block 2	07/11/2025 09:10-13:10	Sulfuric acid	NIOSH 7908/IC	< 0.002	ND	1 ^u 0.2 ^{2u}
Water Treatment Plant	07/11/2025 08:57-12:57	Sulfuric acid	NIOSH 7908/IC	< 0.002	ND	1 ^u 0.2 ^{2u}

Analyst By : Bongpa Puthum
(Miss Pornnapa Budthum)

Approved By : Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)
Technical Management Team

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3. ^{1u} Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).

4. ^{2u} Standard of the American Conference of Governmental Industrial Hygienists 2025 : ACGIH 2025.

5. ND = non-detectable.



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SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2127/68
For	: Ratchaburi World Cogeneration Co.,Ltd.	Sampling Date	: 07/11/2025
Address	: 155/115 Moo 4 Ratchaburi Industrial Estate, Chet Samain, Photharam, Ratchaburi 70120	Received Date	: 10/11/2025
		Test Date	: 16/11/2025
Tel/Fax	: - / -	Report Date	: 17/11/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Chemical feed Cooling Tower Block 1	07/11/2025 08:47-10:17	Sodium hypochlorite	OSHA CSI as Chlorine /IC	< 0.030	ND	-
Chemical feed Cooling Tower Block 2	07/11/2025 09:10-10:40	Sodium hypochlorite	OSHA CSI as Chlorine /IC	< 0.030	ND	-

Analyst By : Bongpa Puthum
(Miss Pornnapa Budthum)

Approved By : Narisa Poowasanpetch
(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. ND = non-detectable.

4. - No Standard.



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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2127/68
For	: Ratchaburi World Cogeneration Co.,Ltd.	Sampling Date	: 07/11/2025
Address	: 155/115 Moo 4 Ratchaburi Industrial Estate, Chet Samain, Photharam, Ratchaburi 70120	Received Date	: 10/11/2025
Tel/Fax	: - / -	Test Date	: 13/11/2025
		Report Date	: 17/11/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				mg/m ³	mg/m ³	mg/m ³
Water Treatment Plant	07/11/2025 08:57-12:57	Sodium hydroxide	NIOSH 7303/CP-OES	< 0.004	ND	2 ^{1),2)}
บริเวณอาคารเก็บสารเคมี	07/11/2025 08:57-12:57	Sodium hydroxide	NIOSH 7303/CP-OES	< 0.004	ND	2 ^{1),2)}

Analyst By: 
(Mrs. Araya Tipparuk)

Approved By: 
(Miss Narisa Poowasanpetch)
Technical Management Team

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3. ¹⁾ Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).

4. ²⁾ Standard of the American Conference of Governmental Industrial Hygienists 2025 : ACGIH 2025.

5. ND = non-detectable.

***Legionella* spp.**



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: RW Cogen Co., Ltd.	REQUEST SERVICE No.	: 2165/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 13/11/2025	SAMPLING TIME	: 09:10-09:25
RECEIVED DATE	: 14/11/2025	ANALYTICAL DATE	: 14-26/11/2025
REPORT DATE	: 03/12/2025	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: ใส	FILE CODE	: 225011_Cooling Water_November

PARAMETER	LOCATION	UNIT	RESULT	STANDARD	REFERENCE METHOD
<i>Legionella</i> spp.*	Cooling tower block 1 :				
	- น้ำก่อนเข้าระบบ Cooling Tower	CFU/L	ND	1/	Method Procedures
	- น้ำ Basin ในระบบ Cooling Tower	CFU/L	ND		of The Recovery of
	- น้ำหลังออกจากระบบ Cooling Tower	CFU/L	ND		Legionella from
					The Environment, CDC

Bongpa Budthum

(Miss Pornnapa Budthum)

Araya Tipparuk

(Mrs. Araya Tipparuk)

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. ND = Not detected

3. * *Legionella* spp. analysis by Department of Medical Sciences.

4. 1/ No standard. The corrective actions were conducted for the following contaminated level in case *Legionella* spp. were found

1) In case *Legionella* spp. were found to be less than 100,000 (10^5) CFU/L, only maintenance is not enough, so maintenance and monitoring plan of cooling system must be improved.

2) In case *Legionella* spp. were found to be 100,000 (10^5) CFU/L, but not more than 1,000,000 (10^6) CFU/L, the condition is to be harmful. Maintenance method and bacteria killing process must be evaluated.

3) In case *Legionella* spp. were more than 1,000,000 (10^6) CFU/L, the condition is considered to be critical. The system must be immediately shutdown for removing contaminated matter, cleaning and killing agent.

Monitoring and following measures in 1) and 2) must be conducted within 24 hrs after *Legionella* spp. were reported.

If *Legionella* spp. are still found, the corrective actions are to be repeated. The local authority or public health officer can order to shutdown immediately if *Legionella* spp. are found again.

Source : Announcement of Public Health Department, January B.E.2544.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: RW Cogen Co., Ltd.	REQUEST SERVICE No.	: 2165/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 13/11/2025	SAMPLING TIME	: 09:14-09:36
RECEIVED DATE	: 14/11/2025	ANALYTICAL DATE	: 14-26/11/2025
REPORT DATE	: 03/12/2025	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: ใส	FILE CODE	: 225011_Cooling Water_November

PARAMETER	LOCATION	UNIT	RESULT	STANDARD	REFERENCE METHOD
<i>Legionella</i> spp.*	Cooling tower block 2 :				
	- น้ำก่อนเข้าระบบ Cooling Tower	CFU/L	ND	1/	Method Procedures
	- น้ำ Basin ในระบบ Cooling Tower	CFU/L	ND		of The Recovery of
	- น้ำหลังออกจากระบบ Cooling Tower	CFU/L	ND		Legionella from
					The Environment, CDC

Bongpa Budthum

(Miss Pornnapa Budthum)

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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3. * *Legionella* spp. analysis by Department of Medical Sciences.

4. 1/ No standard. The corrective actions were conducted for the following contaminated level in case *Legionella* spp. were found

1) In case *Legionella* spp. were found to be less than 100,000 (10^5) CFU/L, only maintenance is not enough, so maintenance and monitoring plan of cooling system must be improved.

2) In case *Legionella* spp. were found to be 100,000 (10^5) CFU/L, but not more than 1,000,000 (10^6) CFU/L, the condition is to be harmful. Maintenance method and bacteria killing process must be evaluated.

3) In case *Legionella* spp. were more than 1,000,000 (10^6) CFU/L, the condition is considered to be critical. The system must be immediately shutdown for removing contaminated matter, cleaning and killing agent.

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Source : Announcement of Public Health Department, January B.E.2544.

ภาคผนวก จ

ใบแสดงการตรวจเทียบเครื่องมือ

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	13060206	CC401947	4950 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Feb 15, 2019
PRM	12367	APEX1099237	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 for Assay and Certification of Gaseous Calibration Standards (May 2012) 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. This certificate and its contents 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.



ACCREDITED

TESTING CERT No. 3082.05

[Signature]
Approved for Release



High Volume TSP&PM10 Calibration Data Sheet

Sheet No. : BH-010-1/2025(P)

Date: 14 Jan 25

Temp (°C): 25

Barometric pressure (mm Hg): 762

Reference Standard Calibration

Unit Under Test

Equipment: Orifice

Equipment: High Volume Air Sampler

Model No: TE-5025A

Model No: TE-5009X

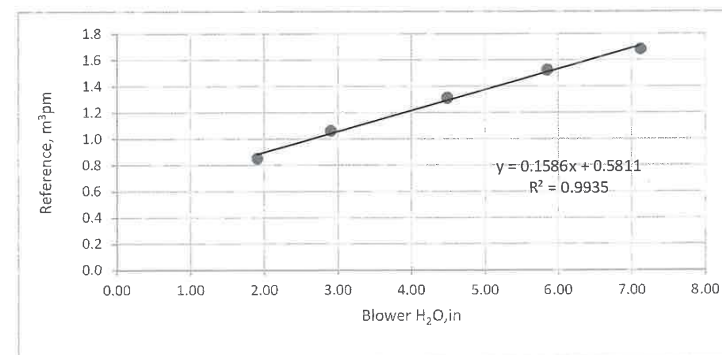
Serial No: 4218

Serial No: BH-010

Manufacturer: Tisch

Calibrated by: Surachat I.

Test No.	Orifice (in)	Qstd (m ³ /min)	Reading (in)	Reading(Corrected) (in)
1	12.31	1.682	7.11	7.12
2	10.10	1.526	5.84	5.85
3	7.44	1.313	4.48	4.49
4	4.84	1.063	2.9	2.90
5	3.07	0.851	1.9	1.90



Approved by: *[Signature]*

Sheet No. : BH-016-1/2025(P)



High Volume TSP&PM10 Calibration Data Sheet

Date: 13 Jan 25

Temp (°C): 28

Barometric pressure (mm Hg): 759

Reference Standard Calibration

Unit Under Test

Equipment: Orifice

Equipment: High Volume Air Sampler

Model No: TE-5025A

Model No: TE-5009X

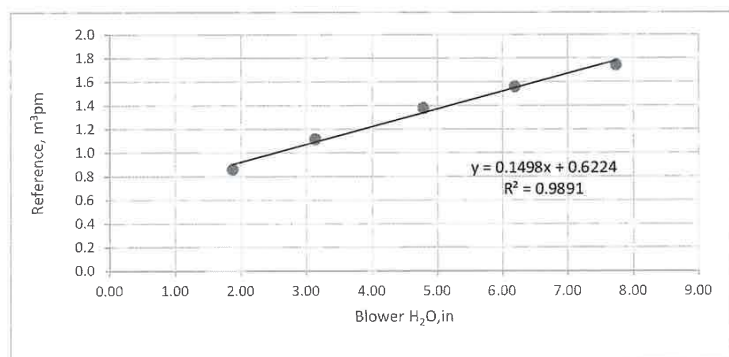
Serial No: 4218

Serial No: BH-016

Manufacturer: Tisch

Calibrated by : Surachat I.

Test No.	Orifice (in)	Qstd (m ³ /min)	Reading (in)	Reading(Corrected) (in)
1	13.45	1.746	7.77	7.73
2	10.73	1.561	6.22	6.18
3	8.35	1.380	4.81	4.78
4	5.42	1.116	3.15	3.13
5	3.18	0.860	1.88	1.87



Approved by :

Sheet No. : BH-002-1/2025(P)



High Volume TSP&PM10 Calibration Data Sheet

Date: 15 Jan 25

Temp (°C): 33

Barometric pressure (mm Hg): 759

Reference Standard Calibration

Unit Under Test

Equipment: Orifice

Equipment: High Volume Air Sampler

Model No: TE-5025A

Model No: TE-5009X

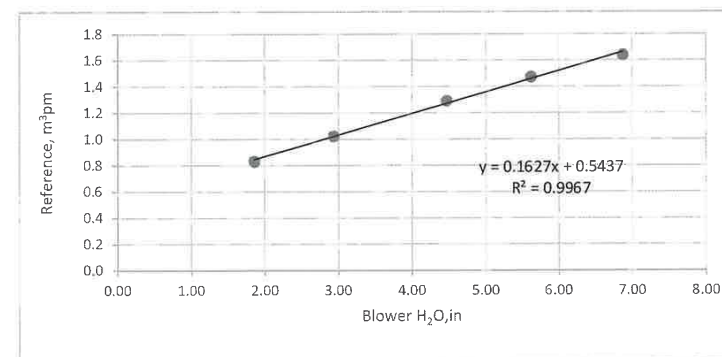
Serial No: 4218

Serial No: BH-002

Manufacturer: Tisch

Calibrated by : Surachat I.

Test No.	Orifice (in)	Qstd (m ³ /min)	Reading (in)	Reading(Corrected) (in)
1	12.04	1.639	6.97	6.87
2	9.71	1.474	5.7	5.62
3	7.41	1.291	4.53	4.47
4	4.62	1.024	2.98	2.94
5	3.01	0.830	1.88	1.85



Approved by :



High Volume TSP&PM10 Calibration Data Sheet

Date: 14 Jan 25

Temp (°C): 27

Barometric pressure (mm Hg): 761

Reference Standard Calibration

Unit Under Test

Equipment: Orifice

Equipment: High Volume Air Sampler

Model No: TE-5025A

Model No: TE-5009X

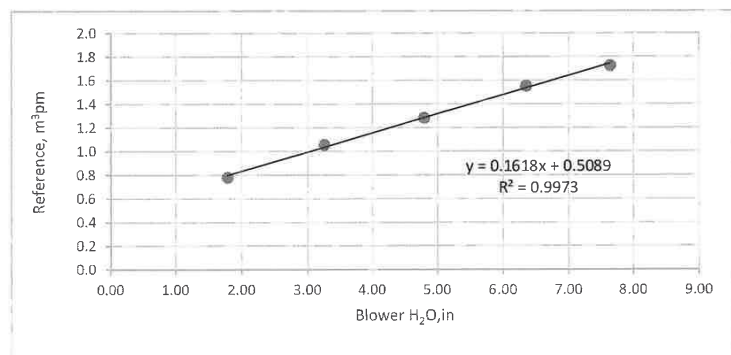
Serial No: 4218

Serial No: BH-014

Manufacturer: Tisch

Calibrated by : Surachat I.

Test No.	Orifice (in)	Qstd (m ³ /min)	Reading (in)	Reading(Corrected) (in)
1	13.06	1.725	7.66	7.64
2	10.57	1.554	6.36	6.34
3	7.16	1.283	4.81	4.80
4	4.81	1.056	3.26	3.25
5	2.58	0.779	1.79	1.79



Approved by :



CONTROL UNIT CALIBRATION (Metric units, mm)

Date: 8 Jan 25

	Initial	Final	Average	
Barometric press, Pb	759	759	759	mmHg

Dry Gas Meter Data

Reference Dry Gas Meter Data

Console No. M50-08

Serial No. 358794

Metering System ID

Model S110

DGM Number 975906

Correction factor (Yr) 1.0077

DGM Model ES-110

Last Calibration Date 25 Oct 24

Calibrated by : Montri P.

Orifice manometer setting, ΔH mm H2O	Ref. DGM Volume V _r Liters	DGM Volume V _m Liters	Temperature (°C)				Time Θ 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	100.6	25	25	24	24.5	8.83	0.9999	44.1498
25.0	100.1	100.6	25	25	24	24.5	6.17	0.9985	43.0855
50.0	100.2	101.0	25	25	24	24.5	4.22	0.9941	40.1536
76.0	100.1	100.9	25	25	24	24.5	3.48	0.9910	41.7921
100.0	100.0	100.5	25	25	24	24.5	3.48	0.9917	40.8171
150.0	100.0	100.3	25	25	24	24.5	2.48	0.9893	41.9313

Average	0.9941	41.9882
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Approved by :



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 ***



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. : PS10-02

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	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 ***



CONTROL UNIT CALIBRATION

(Metric units, mm)

Date 6 Jan 25

Initial Final Average
Barometric press, Pb 758 758 758 mmHg

Dry Gas Meter Data

Console No. M50-07

Serial No. 358794

Metering System ID

Model S110

DGM Number 90331

Correction factor (Yr) 1.0077

DGM Model MST-C2-1

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 Θ 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	101.0	25	25	24	24.5	8.67	0.9958	42.5842
25.0	99.9	100.8	25	25	24	24.5	6.23	0.9946	44.2513
50.0	100.0	100.9	25	25	24	24.5	4.62	0.9920	48.4414
76.0	100.1	99.3	25	25	24	24.5	3.63	1.0074	45.4868
100.0	100.2	100.7	25	25	24	24.5	3.63	0.9921	47.7831
150.0	99.9	99.4	25	25	24	24.5	2.62	0.9970	46.7598

Average 0.9965 45.8844

Approved by :

THE LINDE GROUP

Linde

Certificate Of Analysis

Special Gases Mixture

Customer Details

Name:
Secot Co., Ltd.

Address:

239 Rimklongprapa Rd. Bangsue Khet Bangsue
Bangkok 10800

Customer Tag No.:

Certificate Details

Number: 0500/23

Date of Issue: 23-Feb-2023

Expiry date: 22-Feb-2027

Material Details

Production Order: 90176404

Material Code: 429900-J-62

Cylinder No.: 562827

Gas content: 6.560 M³ (nominal)

Filling pressure: 145 bar (g)

Valve: CGA 590 BRASS

Cylinder Owner: LINDE

Cylinder Material: STEEL

Cylinder Size: 47 L

Laboratory Report

Component	Normal Concentration	Analysis Result ¹	Uncertainty ²	Method of Analysis ³
Oxygen in Nitrogen	15.0%	15.1%	± 2% relative	(2) I-PB-354

Recommend usage condition

Minimum utilization: 5% of actual content or before expire date whichever comes first.

Storage condition: Keep in well ventilation and secure area.

Comments

Note:

1. All results expressed in this report are on mole/mole basis, unless otherwise specified.
2. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The measurement of this material is traceable to the SI through the reference gas standard which is traceable to Swiss National Standard of Mass or other recognised national metrology institutes.
3. (1) Gas Chromatography, (2) Paramagnetic Oxygen Analyzer, (3) Electrochemical Oxygen Analyzer,
- (4) Electrochemical Moisture Analyzer, (5) Total Hydrocarbon Analyzer, (6) Other - Specified

Sukanya Parinyasontorn

Signatory for and on behalf of Linde (Thailand) Co., Ltd.

Page 1 of 1

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PB-002/F004

Iss.K/2, 15 Oct 2021

บริษัท ลินด์ (ประเทศไทย) จำกัด (มหาชน)

เลขที่ใบอนุญาตประกอบธุรกิจ: 0107337000785

ชั้น 15 อาคารทาวเวอร์ 10 2/3 หมู่ 14 ถนนพหลโยธิน-พญาไท กม. 6.5 แขวงจตุจักร

เขตจตุจักร กรุงเทพมหานคร 10540 โทรศัพท์ (66) 2338-6100 โทรสาร (66) 2338-6333

โทรสารมือถือ: 105 หมู่ 5 ต.บางพลีใหญ่ อ.บางพลีใหญ่ จ.สมุทรปราการ 24180

โทรศัพท์ (66) 38.570-479-93

โทรสาร (66) 38.570-479-323

Linde (Thailand) Public Company Limited

P.L.C. Registration no. 0107337000785

15th Floor, Bangna Tower A, 2/3 Moo 14, Bangna Trad KM. 6.5 Road, Bangkew

Bangklee, Samutprakarn 10540, Tel (66) 2338-6100 Fax (66) 2338-6333

Wellgrow Plant: 105 Moo 5, T.Bangsamak, A.Bangpakong, Chachoengsao 24180

Thailand, Tel (66) 38.570-479-93

Fax (66) 38.570-323

THE LINDE GROUP

Linde

Certificate Of Analysis
Special Gases Mixture

Customer Details

Name: Secot Co., Ltd. Address: 239, Rimklongprapa Rd., Bangsue, Bangkok 10800 Customer Tag No.:

Certificate Details

Number: 0275/22 Date of Issue: 4-Feb-2022 Expiry date: 4-Feb-2026
Material Details
Production Order: 90169722 Material Code: 631500-SK-44 Cylinder No.: D636195
Gas content: 5.52 M³ Filling pressure: 145.0 bar Valve: CGA 660 SS
Cylinder Owner: LINDE Cylinder Material: Spectra seal Cylinder Size: 40 L

Laboratory Report

Analytical Result

Component	Normal Concentration	Analysis Result ¹	Uncertainty ²	Method of Analysis ³	Assay Date
Sulphur Dioxide In Nitrogen	20.0 ppm	20.4 ppm	± 1% relative	(6) I-PB-352	28-Jan & 4-Feb-22

Reference Standard used in Assay

Reference Standard	Cylinder number	Concentration	Expiry date:
Sulphur Dioxide In Nitrogen	145754SG	25.03 ± 0.25 ppm	18-Aug-2022

Analytical Instruments used in Assay

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
FTIR Spectrometers Nicolet iS50	FTIR-SO2	27-Jan-2022

Recommend usage condition

Minimum utilization: 5% of actual content or before expiry date whichever comes first.
Storage condition: Keep in well ventilation and secure area.

Comments

When reordering, please quote the material number

Note:

1. All results expressed in this report are on mole/mole basis, unless otherwise specified. The Assay of this Standard has been performed in accordance with the EPA Traceability Protocol EPA-600/R-12/531 for the Assay and Certification of Gaseous Calibration Standards using procedure G1
2. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The measurement of this material is traceable to the SI through the reference gas standard which is traceable to Swiss National Standard of Mass or other recognised national metrology institutes.
3. (1) Gas Chromatography, (2) Paramagnetic Oxygen Analyzer, (3) Electrochemical Oxygen Analyzer, (4) Electrochemical Moisture Analyzer, (5) Total Hydrocarbon Analyzer, (6) Other - Specified

Sukanya Parinyasoonorn
Signatory for and on behalf of Linde (Thailand) Co., Ltd.

Page 1 of 1

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บริษัท ลินด์ (ประเทศไทย) จำกัด (มหาชน)

เลขที่จดทะเบียนการค้า: 0107537000785

ชั้น 15 อาคารทาวเวอร์ เอ 2/3 หมู่ 14 ถนนบางนา-ตราด กม. 6.5 แขวงบางนา

อำเภอเมืองสมุทรปราการ 10540 โทรศัพท์ (66) 2338-6100 โทรสาร (66) 2338-6333

โรงงานผลิตก๊าซ: 105 หมู่ 5 ตำบลบึงนาราง อำเภอสากเหล็ก จังหวัดพิจิตร 24180

โทรศัพท์ (66) 38.570-479-93

โทรสาร (66) 38.570-323

Linde (Thailand) Public Company Limited

PLC Registration no. 0107537000785

15th Floor, Bangna Tower A, 2/3 Moo 14, Bangna Trad KM. 6.5 Road, Bangkwaew

Bangplee, Samutprakarn 10540, Tel (66) 2338-6100 Fax (66) 2338-6333

Wellgrow Plant: 105 Moo 5, T.Bangsamak, A.Bangpakong, Chachoengsao 24180

Thailand, Tel (66) 38.570-479-93

Fax (66) 38.570-323

PB-002/F006
Iss:K/2, 15 Oct 2021

THE LINDE GROUP

Linde

Certificate Of Analysis
Special Gases Mixture

Customer Details

Name: Secot Co., Ltd. Address: 239, Rimklongprapa Rd., Bangsue, Bangkok 10800 Customer Tag No.:

Certificate Details

Number: 0530/23 Date of Issue: 7-Mar-2023 Expiry date: 7-Mar-2026
Material Details
Production Order: 90176407 Material Code: 436700-SK-34 Cylinder No.: A00929SK
Gas content: 5.23 M³ Filling pressure: 137.0 bar Valve: CGA 660 SS
Cylinder Owner: LINDE Cylinder Material: Spectra seal Cylinder Size: 40 L

Laboratory Report

Analytical Result

Component	Normal Concentration	Analysis Result ¹	Uncertainty ²	Method of Analysis ³	Assay Date
Nitric Oxide	80.0 ppm	79.8 ppm	± 1% relative	(6) I-PB-352	27-Feb & 7-Mar-23
Other NOx impurity		Less than 3.9 ppm			
Carbon Monoxide In Nitrogen	80.0 ppm	81.1 ppm	± 1% relative	(6) I-PB-352	27-Feb-2023

Reference Standard used in Assay

Reference Standard	Cylinder number	Concentration	Expiry date:
Nitric Oxide	2560035G	50.89 ± 0.41 ppm	13-Dec-2024
Carbon Monoxide In Nitrogen	ND46423	50.20 ± 0.26 ppm	4-May-2024

Analytical Instruments used in Assay

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
FTIR Spectrometers Nicolet iS50	FTIR-NO	27-Jan & 1-Mar-23
FTIR Spectrometers Nicolet iS50	FTIR-CO	22-Feb-2023

Recommend usage condition

Minimum utilization: 5% of actual content or before expiry date whichever comes first.
Storage condition: Keep in well ventilation and secure area.

Comments

When reordering, please quote the material number

Note:

1. All results expressed in this report are on mole/mole basis, unless otherwise specified. The Assay of this Standard has been performed in accordance with the EPA Traceability Protocol EPA-600/R-12/531 for the Assay and Certification of Gaseous Calibration Standards using procedure G1
2. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The measurement of this material is traceable to the SI through the reference gas standard which is traceable to Swiss National Standard of Mass or other recognised national metrology institutes.
3. (1) Gas Chromatography, (2) Paramagnetic Oxygen Analyzer, (3) Electrochemical Oxygen Analyzer, (4) Electrochemical Moisture Analyzer, (5) Total Hydrocarbon Analyzer, (6) Other - Specified

Sukanya Parinyasoonorn
Signatory for and on behalf of Linde (Thailand) Co., Ltd.

Page 1 of 1

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บริษัท ลินด์ (ประเทศไทย) จำกัด (มหาชน)

เลขที่จดทะเบียนการค้า: 0107537000785

ชั้น 15 อาคารทาวเวอร์ เอ 2/3 หมู่ 14 ถนนบางนา-ตราด กม. 6.5 แขวงบางนา

อำเภอเมืองสมุทรปราการ 10540 โทรศัพท์ (66) 2338-6100 โทรสาร (66) 2338-6333

โรงงานผลิตก๊าซ: 105 หมู่ 5 ตำบลบึงนาราง อำเภอสากเหล็ก จังหวัดพิจิตร 24180

โทรศัพท์ (66) 38.570-479-93

โทรสาร (66) 38.570-323

PB-002/F006
Iss:K/2, 15 Oct 2021

Linde (Thailand) Public Company Limited

PLC Registration no. 0107537000785

15th Floor, Bangna Tower A, 2/3 Moo 14, Bangna Trad KM. 6.5 Road, Bangkwaew

Bangplee, Samutprakarn 10540, Tel (66) 2338-6100 Fax (66) 2338-6333

Wellgrow Plant: 105 Moo 5, T.Bangsamak, A.Bangpakong, Chachoengsao 24180

Thailand, Tel (66) 38.570-479-93

Fax (66) 38.570-323



SOUND LEVEL METER CALIBRATION

Calibration Location: SECOT

Calibration Date: Nov 12, 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
56	Cirrus	CR161B	G303821	93.7	0.0
57	Cirrus	CR161B	G303827	93.7	0.0

Calibrated by :

Approved by :

Preeda S.



SOUND LEVEL METER CALIBRATION

Calibration Location: SECOT

Calibration Date: 01/08/2025

ACOUSTIC CALIBRATOR

Brand	Model	Serial No.	Frequency (Hz)	Ref.Calibrated (dB)	Eff.Calibrated (dB)
Cirrus	CR:515	97097	1000.00	94.0	93.8

No.	Brand	Model	Serial No.	Reading (dB)	dB Adjust
1	SCARLET TECH	ST-21D	821082	93.8	0.0
2	SCARLET TECH	ST-21D	821081	93.8	0.0
3	SCARLET TECH	ST-21D	821078	93.8	0.0
4	SCARLET TECH	ST-21D	821079	93.8	0.0
8	SCARLET TECH	ST-21D	821080	93.8	0.0

Calibrated by :

Approved by :

Sali Sathumman



SOUND LEVEL METER CALIBRATION

Calibration Location: SECOT

Calibration Date: 01/08/2025

ACOUSTIC CALIBRATOR

Brand	Model	Serial No.	Frequency (Hz)	Ref.Calibrated (dB)	Eff.Calibrated (dB)
Cirrus	CR:515	97097	1000.00	94.0	93.7

No.	Brand	Model	Serial No.	Reading (dB)	dB Adjust
5	Cirrus	CR162C	G300832	93.7	0.0
6	Cirrus	CR162C	G300841	93.7	0.0
7	Cirrus	CR162C	G300838	93.7	0.0

Calibrated by : _____

Approved by : Suk Suthamon

SOUND LEVEL METER CALIBRATION

Calibration Location: SECOT

Calibration Date: 07/11/2025

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
1	SCARLET TECH	ST-21D	820731	93.8	0.0
2	SCARLET TECH	ST-21D	820730	93.8	0.0
3	SCARLET TECH	ST-21D	821079	93.8	0.0
4	SCARLET TECH	ST-21D	821080	93.8	0.0
5	SCARLET TECH	ST-21D	821078	93.8	0.0
6	SCARLET TECH	ST-21D	820729	93.8	0.0
7	SCARLET TECH	ST-21D	820723	93.8	0.0
8	SCARLET TECH	ST-21D	820728	93.8	0.0

Calibrated by : _____

Approved by : Suk Suthamon

Instrument information



Name	WET BULB GLOBE TEMPERATURE (WBGT)METER
Series No	3522210178
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	29.9	0.1	0.2
	35.0	34.9	0.1	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	30.2	-0.2	0.2
	35.0	35.1	-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	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-AK000073

Calibration Engineer : Date : January 15, 2025 

Instrument information



Name	WET BULB GLOBE TEMPERATURE (WBGT)METER
Series No	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-AK000073

Calibration Engineer : Date : January 15, 2025 

Instrument information



Name	WET BULB GLOBE TEMPERATURE (WBGT)METER
Series No	3522210172
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	30.1	0.1	0.2
	35.0	35.2	-0.2	0.2
	40.0	39.9	0.1	0.2
	45.0	45.1	-0.1	0.2
DRY	25.0	24.9	0.1	0.2
	30.0	29.9	0.1	0.2
	35.0	35.1	-0.1	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	29.8	0.2	0.2
	35.0	35.1	-0.1	0.2
	40.0	39.9	0.1	0.2
	45.0	44.9	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-AK000073

Calibration Engineer : Date : January 15, 2025 

Instrument information



Name	WET BULB GLOBE TEMPERATURE (WBGT)METER
Series No	3522210174
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	29.8	0.2	0.2
	35.0	35.1	-0.1	0.2
	40.0	40.1	-0.1	0.2
	45.0	44.8	0.2	0.2
DRY	25.0	24.9	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
GLOBE	25.0	24.9	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	44.9	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-AK000073

Calibration Engineer : Date : January 15, 2025 

Instrument information



Name	WET BULB GLOBE TEMPERATURE (WBGT)METER
Series No	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-AK000073

Calibration Engineer : Date : January 15, 2025 

Instrument information



Name	WET BULB GLOBE TEMPERATURE (WBGT)METER
Series No	3522210173
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	40.2	-0.2	0.2
	45.0	45.1	-0.1	0.2
DRY	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	40.2	-0.2	0.2
	45.0	45.1	-0.1	0.2
GLOBE	25.0	24.9	0.1	0.2
	30.0	29.8	0.2	0.2
	35.0	35.2	-0.2	0.2
	40.0	40.1	-0.1	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-AK000073

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 test with 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 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	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: 20 January 2025

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

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

Request No: **C-2501 - 011**Laboratory No.: **CAL- 011**

Date of Request: 14 January 2025.

Date of Calibration: 17 January 2025.

1. Unit Under Calibration (UUC) :

Nomenclature : Digital Light Meter

Serial No.: A 051053

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 %.

Page 1 of 2

The Results shown in this certification report refer only to the equipment(s) calibrated unless otherwise stated
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Tel 0-2559-2095 Fax 0-2559-2096E-mail : sale@itest-lab.com web site : www.itest-lab.comRequest No: **C-2501 - 011**

Serial No.: A 051053

Laboratory No.: **CAL - 011****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	93	102	-2	2.1 % of Reading
	503	468	507	-4	
	1009	934	1009	0	
	1517	1407	1519	-2	
	1925	1784	1925	0	

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

Calibration result approved by
(Mr. Yuttana Tholueng)**Approved on behalf of
International Testing Service Co., Ltd**
(Mr. Pichit Vivat-Anant)
Managing Director

Page 2 of 2

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THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH (TISTR)

Mechanical Engineering Standards Laboratory Soi 1, Bangpoo Industrial Estate, Muang, Samutprakan 10280, Thailand.

Request No.23-68/0279

MTC.No.23-68/0279-01

Number of page(s) 2

CALIBRATION CERTIFICATE

Nomenclature : DRYCAL

Manufacturer : Mesa Labs

Serial No.: 160100

Model : Defender 520-L

Scale range : 5 ml/min to 500 ml/min

Subdivision : (0.001, 0.01) ml/min

Submitted by : SECOT CO.,LTD.

239, Rimklongprapa Road, Bangsue,

Bangkok 10800, Thailand.

Received date : 13 February 2025 Condition of measured item : Normal

Calibration date : 24 February 2025

Standard :

Standard	Certificate No.	Date due	Traceability
RTD Thermometer	PSL-T 0811/67	3-Jul-26	TISTR
Molbox/Pressure Transducer/UpStream	MP-0076-23	2-Apr-25	NIMT
Primary Flow Calibrator S/N 117982	MW-0034-23	11-Jun-25	NIMT

Calibrated by : Terasak Panna

(Mr.Terasak Panna)

Approved by :

(Ms.Kirana Luanghirun)

Director

Mechanical Engineering Standards Laboratory

Ref. 2013268021300656001

Issued Date 28 February 2025

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THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH (TISTR)

Mechanical Engineering Standards Laboratory Soi 1, Bangpoo Industrial Estate, Muang, Samutprakan 10280, Thailand.

Request No.23-68/0279

2/2

MTC.No.23-68/0279-01

Calibration point : (20, 50, 100, 200, 400) ml/min

Ambient condition : Temperature (23 ± 3) °C , Relative humidity (55 ± 15) %

Atmospheric pressure (1010±13) hPa

Calibration method : The flowmeter (UUC) was calibrated by comparison method with
standard flowmeter according to CP-370.01.

The reported value is the value that converted to value at reference condition
within pressure and temperature of the actual gas entering the UUC

Measurement data :

UUC Value (ml/min)	Standard Value (ml/min)	Temperature (°C)	Pressure (hPa)	Deviation (%)	Uncertainty (%)
20.473*	20.340	24.275	1011.42	+0.65	0.94
49.952	50.732	24.057	1011.52	-1.54	0.95
99.449	99.622	24.102	1011.62	-0.17	0.93
200.34	199.94	24.133	1011.77	+0.20	0.93
401.89	397.98	24.140	1012.07	+0.98	0.93

The reported expanded uncertainties are based on standard uncertainties multiplied by
a coverage factor $k=2$, which provides a level of confidence of approximately 95%.

* : The calibration point is not the scope of accreditation.

The end of calibration certificate.

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Request No.23-68/0279

MTC.No.23-68/0279-02

Number of page(s) 2

CALIBRATION CERTIFICATE

Nomenclature : DRYCAL

Manufacturer : Mesa Labs

Serial No.: 114069

Model : Defender 520-H

Scale range : 300 ml/min to 30,000 ml/min

Subdivision : (0.0001, 0.001) L/min

Submitted by : SECOT CO.,LTD.

239, Rimklongprapa Road, Bangsue,

Bangkok 10800, Thailand.

Received date : 13 February 2025 **Condition of measured item :** Normal

Calibration date : 25 February 2025

Standard :

Standard	Certificate No.	Date due	Traceability
RTD Thermometer	PSL-T 0811/67	3-Jul-26	TISTR
Molbox/PressureTransducer/UpStream	MP-0076-23	2-Apr-25	NIMT
Primary Flow Calibrator S/N 119216	MW-0035-23	31-May-25	NIMT

Calibrated by : Terasak Panna

(Mr.Terasak Panna)

Approved by :

(Ms.Kirana Luanghirun)

Director

Mechanical Engineering Standards Laboratory

Ref. 2013268021300656002

Issued Date 28 February 2025

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THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH (TISTR)

Mechanical Engineering Standards Laboratory Soi 1, Bangpoo Industrial Estate, Muang, Samutprakan 10280, Thailand.

Request No.23-68/0279

2/2

MTC.No.23-68/0279-02

Calibration point : (1.5, 5.0, 10, 15, 25) l/min

Ambient condition : Temperature (23 ± 3) °C , Relative humidity (55 ± 15) %

Atmospheric pressure (1010±13) hPa

Calibration method : The flowmeter (UUC) was calibrated by comparison method with
standard flowmeter according to CP-370.01.

The reported value is the value that converted to value at reference condition
within pressure and temperature of the actual gas entering the UUC

Measurement data :

UUC Value (L/min)	Standard Value (L/min)	Temperature (°C)	Pressure (hPa)	Deviation (%)	Uncertainty (%)
1.5010	1.4862	24.354	1011.40	+0.99	0.91
5.0202	4.9882	24.364	1013.95	+0.64	0.89
9.9989	9.9228	24.319	1020.22	+0.77	0.89
15.033	14.819	24.342	1030.37	+1.44	0.89
25.136	24.152	24.331	1061.30	+4.08	0.89

The reported expanded uncertainties are based on standard uncertainties multiplied by
a coverage factor $k=2$, which provides a level of confidence of approximately 95%.

The end of calibration certificate.

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