ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศโดยทั่วไป

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113215
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3474249-1

Sample Description Air Quality
Location บ้านชันนอน (GPS 47P 0728177, 1619188)
Date Analysis Commenced Apr 11, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113215-1	Apr 02 - Apr 03, 2026	743	37.2	88.4	46.1
25113215-2	Apr 03 - Apr 04, 2026	743	36.9	85.8	45.6
25113215-3	Apr 04 - Apr 05, 2026	743	36.6	87.8	48.0
25113215-4	Apr 05 - Apr 06, 2026	743	36.8	96.4	53.6
25113215-5	Apr 06 - Apr 07, 2026	743	36.8	89.8	51.3
25113215-6	Apr 07 - Apr 08, 2026	743	37.0	125	69.8
25113215-7	Apr 08 - Apr 09, 2026	743	36.9	95.3	49.8
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Winyou Boontanai

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112997
Date Received : Apr 10, 2026
Date Reported : Apr 20, 2026
Report Number: 3473461-1

Sample Description Air Quality
Location บ้านชันนอน (GPS 47P 0728177, 1619188)
Parameter Nitrogen dioxide (ppb)
Measurement Date Apr 02, 2026 - Apr 09, 2026
Measurement by Winyou Boontanai

Time	25112997-1 Apr 02, 2026	25112997-2 Apr 03, 2026	25112997-3 Apr 04, 2026	25112997-4 Apr 05, 2026	25112997-5 Apr 06, 2026	25112997-6 Apr 07, 2026	25112997-7 Apr 08, 2026
02:00 PM - 03:00 PM	16.2	11.0	7.4	3.8	5.7	3.5	2.9
03:00 PM - 04:00 PM	7.8	4.3	4.6	3.6	4.2	19.4	3.8
04:00 PM - 05:00 PM	11.9	11.3	3.7	4.3	4.1	22.3	2.9
05:00 PM - 06:00 PM	11.3	4.0	4.4	5.5	4.2	31.1	6.7
06:00 PM - 07:00 PM	6.4	4.3	4.1	4.8	4.1	25.4	4.7
07:00 PM - 08:00 PM	5.1	6.4	5.1	4.6	4.4	10.9	4.0
08:00 PM - 09:00 PM	6.6	4.0	5.1	3.5	3.8	5.3	7.2
09:00 PM - 10:00 PM	6.8	5.8	6.9	8.9	3.4	7.7	5.6
10:00 PM - 11:00 PM	13.7	10.1	45.2	22.7	3.9	11.4	3.8
11:00 PM - 12:00 AM	13.5	5.8	19.9	44.6	7.1	10.7	21.2
12:00 AM - 01:00 AM	19.3	6.2	8.7	15.4	4.4	14.3	29.0
01:00 AM - 02:00 AM	10.0	6.2	5.9	16.1	4.2	12.4	23.9
02:00 AM - 03:00 AM	9.6	5.0	6.2	20.3	4.0	11.2	23.0
03:00 AM - 04:00 AM	6.7	4.0	5.8	7.0	5.7	21.9	12.4
04:00 AM - 05:00 AM	5.4	4.3	4.3	7.5	3.6	13.0	11.5
05:00 AM - 06:00 AM	4.1	3.4	3.2	4.5	3.6	13.3	24.3
06:00 AM - 07:00 AM	4.8	4.1	3.5	5.5	3.8	14.6	26.1
07:00 AM - 08:00 AM	4.2	4.2	4.6	4.3	4.1	30.1	18.3
08:00 AM - 09:00 AM	3.7	3.2	2.7	3.2	3.4	4.4	4.9
09:00 AM - 10:00 AM	2.7	2.3	2.3	2.1	2.9	2.7	3.3
10:00 AM - 11:00 AM	4.5	2.7	2.5	2.6	2.9	4.6	3.1
11:00 AM - 12:00 PM	5.7	3.0	4.5	2.5	2.9	5.1	2.7
12:00 PM - 01:00 PM	2.8	3.1	4.7	3.3	11.8	4.5	2.8
01:00 PM - 02:00 PM	8.1	4.0	3.5	6.0	4.4	6.1	3.5
Average	8.0	5.1	7.0	8.6	4.4	12.7	10.5
1hr - Maximum	19.3	11.3	45.2	44.6	11.8	31.1	29.0
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113197
Date Received : Apr 10, 2026
Date Reported : Apr 20, 2026
Report Number: 3474232-1

Sample Description Air Quality
Location บ้านขันบอน (GPS 47P 0728177, 1619188)
Parameter Sulfur Dioxide (ppb)
Measurement Date Apr 02, 2026 - Apr 09, 2026
Measurement by Winyou Boontanai

Time	25113197-1 Apr 02, 2026	25113197-2 Apr 03, 2026	25113197-3 Apr 04, 2026	25113197-4 Apr 05, 2026	25113197-5 Apr 06, 2026	25113197-6 Apr 07, 2026	25113197-7 Apr 08, 2026
02:00 PM - 03:00 PM	1.6	1.6	1.3	1.6	1.6	2.5	1.9
03:00 PM - 04:00 PM	1.5	1.4	1.3	1.6	1.6	2.0	1.8
04:00 PM - 05:00 PM	1.4	1.6	1.4	1.5	1.6	1.8	1.7
05:00 PM - 06:00 PM	1.4	1.5	1.4	1.7	1.7	1.7	1.7
06:00 PM - 07:00 PM	1.5	1.5	1.5	1.7	1.7	1.8	1.8
07:00 PM - 08:00 PM	1.7	1.6	1.5	1.6	1.9	1.9	1.8
08:00 PM - 09:00 PM	1.8	1.6	1.5	1.7	1.8	1.9	1.8
09:00 PM - 10:00 PM	1.6	1.6	1.6	1.7	1.9	1.9	1.8
10:00 PM - 11:00 PM	1.5	1.8	1.9	1.7	2.8	1.9	1.4
11:00 PM - 12:00 AM	1.5	1.7	2.5	1.8	2.6	1.8	1.3
12:00 AM - 01:00 AM	1.5	1.7	4.3	2.1	2.9	1.8	1.3
01:00 AM - 02:00 AM	3.2	1.7	3.9	2.6	2.6	2.1	1.2
02:00 AM - 03:00 AM	2.8	1.8	3.9	2.3	2.0	2.5	1.3
03:00 AM - 04:00 AM	2.4	2.0	2.9	2.4	1.8	3.3	1.4
04:00 AM - 05:00 AM	2.5	1.9	2.1	2.3	1.8	2.7	1.5
05:00 AM - 06:00 AM	2.4	2.4	2.5	2.7	2.0	2.0	2.2
06:00 AM - 07:00 AM	1.7	2.1	3.1	2.6	2.0	2.0	1.9
07:00 AM - 08:00 AM	1.8	1.7	2.8	2.2	2.2	1.9	1.7
08:00 AM - 09:00 AM	2.2	1.7	2.9	2.2	2.3	2.0	1.7
09:00 AM - 10:00 AM	2.2	1.5	2.5	2.0	2.2	1.7	2.4
10:00 AM - 11:00 AM	1.8	1.7	2.4	2.0	2.8	1.9	2.9
11:00 AM - 12:00 PM	1.5	1.6	2.3	1.7	2.9	2.5	2.6
12:00 PM - 01:00 PM	1.4	1.4	2.2	1.7	3.3	2.3	1.9
01:00 PM - 02:00 PM	1.5	1.3	1.9	1.7	2.7	1.9	1.8
Average	1.8	1.7	2.3	2.0	2.2	2.1	1.8
1hr - Maximum	3.2	2.4	4.3	2.7	3.3	3.3	2.9
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

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Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112974
Date Received :Apr 10, 2026
Date Reported :Apr 21, 2026
Report Number :3473384-1

Sample Number 25112974-1 to 7
Parameter Wind Speed / Wind Direction
Location บ้านขันบอน (GPS 47P 0728177, 1619188)
Sampling Date Apr 02 - Apr 09, 2026
Sampling by Winyou Boontanai

Time	Apr 02 - Apr 03, 2026		Apr 03 - Apr 04, 2026		Apr 04 - Apr 05, 2026		Apr 05 - Apr 06, 2026		Apr 06 - Apr 07, 2026		Apr 07 - Apr 08, 2026		Apr 08 - Apr 09, 2026	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
02:00 PM - 03:00 PM	2.7	279.0 W	2.0	268.0 W	1.5	241.0 WSW	1.1	213.0 SSW	1.6	225.0 SW	1.8	330.0 NNW	1.7	268.0 W
03:00 PM - 04:00 PM	1.0	222.0 SW	2.5	227.0 SW	1.8	283.0 WNW	1.7	192.0 SSW	0.0	- -	1.3	238.0 WSW	0.4	167.0 SSE
04:00 PM - 05:00 PM	0.8	203.0 SSW	1.6	210.0 SSW	0.9	260.0 W	0.3	265.0 W	1.1	199.0 SSW	0.5	214.0 SW	0.9	262.0 W
05:00 PM - 06:00 PM	1.1	300.0 WNW	3.6	303.0 WNW	0.6	219.0 SW	3.1	271.0 W	1.6	214.0 SW	1.0	228.0 SW	1.7	292.0 WNW
06:00 PM - 07:00 PM	1.2	218.0 SW	1.4	235.0 SW	1.7	198.0 SSW	0.7	22.0 NNE	0.0	- -	0.5	244.0 WSW	1.3	252.0 WSW
07:00 PM - 08:00 PM	0.9	238.0 WSW	3.1	284.0 WNW	0.6	151.0 SSE	0.0	- -	0.9	107.0 ESE	0.0	- -	1.1	296.0 WNW
08:00 PM - 09:00 PM	1.0	274.0 W	0.6	335.0 NNW	0.3	108.0 ESE	0.0	- -	1.2	99.0 E	0.0	- -	0.8	162.0 SSE
09:00 PM - 10:00 PM	0.7	167.0 SSE	1.1	280.0 W	0.0	- -	0.0	- -	0.4	148.0 SSE	0.0	- -	0.2	- -
10:00 PM - 11:00 PM	0.7	246.0 WSW	1.9	200.0 SSW	2.4	281.0 W	0.4	23.0 NNE	1.2	296.0 WNW	0.0	- -	0.0	- -
11:00 PM - 12:00 AM	0.9	204.0 SSW	1.4	207.0 SSW	0.8	226.0 SW	0.0	- -	1.3	268.0 W	0.0	- -	1.2	219.0 SW
12:00 AM - 01:00 AM	2.4	286.0 WNW	0.4	153.0 SSE	1.3	197.0 SSW	1.0	277.0 W	0.8	255.0 WSW	0.5	233.0 SW	1.4	301.0 WNW
01:00 AM - 02:00 AM	0.8	272.0 W	0.5	273.0 W	1.6	192.0 SSW	2.5	307.0 NW	0.8	174.0 S	1.0	287.0 WNW	0.5	259.0 W
02:00 AM - 03:00 AM	2.1	278.0 W	1.5	202.0 SSW	0.7	241.0 WSW	1.0	153.0 SSE	0.8	166.0 SSE	0.4	273.0 W	1.8	248.0 WSW
03:00 AM - 04:00 AM	0.4	279.0 W	0.8	304.0 NW	0.6	102.0 ESE	0.9	255.0 WSW	2.1	263.0 W	1.2	267.0 W	1.0	164.0 SSE
04:00 AM - 05:00 AM	1.4	204.0 SSW	0.0	- -	0.6	214.0 SW	1.2	321.0 NW	0.8	210.0 SSW	0.1	- -	0.0	- -
05:00 AM - 06:00 AM	0.2	- -	0.3	79.0 E	0.9	226.0 SW	0.8	226.0 SW	0.0	- -	0.5	71.0 ENE	0.9	291.0 WNW
06:00 AM - 07:00 AM	0.2	- -	0.6	160.0 SSE	0.5	244.0 WSW	1.6	279.0 W	1.0	156.0 SSE	0.0	- -	0.0	- -
07:00 AM - 08:00 AM	2.3	195.0 SSW	1.0	268.0 W	2.0	254.0 WSW	1.8	135.0 SE	0.7	145.0 SE	0.3	197.0 SSW	0.5	213.0 SSW
08:00 AM - 09:00 AM	1.7	218.0 SW	1.5	232.0 SW	1.8	203.0 SSW	1.7	222.0 SW	1.3	254.0 WSW	1.9	197.0 SSW	2.1	214.0 SW
09:00 AM - 10:00 AM	1.4	204.0 SSW	2.7	262.0 W	1.1	190.0 S	2.6	164.0 SSE	4.5	253.0 WSW	1.0	224.0 SW	0.4	219.0 SW
10:00 AM - 11:00 AM	0.7	201.0 SSW	2.5	264.0 W	4.7	291.0 WNW	5.4	216.0 SW	3.0	267.0 W	2.0	207.0 SSW	1.4	160.0 SSE
11:00 AM - 12:00 PM	1.9	231.0 SW	1.0	339.0 NNW	0.8	278.0 W	2.5	219.0 SW	4.3	257.0 WSW	2.6	284.0 WNW	2.3	215.0 SW
12:00 PM - 01:00 PM	0.9	211.0 SSW	2.6	204.0 SSW	1.1	282.0 WNW	1.3	232.0 SW	2.9	285.0 WNW	3.1	300.0 WNW	1.1	200.0 SSW
01:00 PM - 02:00 PM	1.5	329.0 NNW	2.4	275.0 W	1.0	178.0 S	0.7	137.0 SE	2.0	225.0 SW	1.9	200.0 SSW	0.5	192.0 SSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

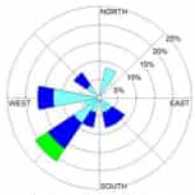
Lot ID: 25112974
Date Received :Apr 10, 2026
Date Reported :Apr 21, 2026
Report Number :3473384-1

Wind Rose

Date : Apr 02-03, 2026

Date : Apr 03-04, 2026

Date : Apr 04-05, 2026



Date : Apr 05-06, 2026

Date : Apr 06-07, 2026

Date : Apr 07-08, 2026

Date : Apr 08-09, 2026

Date : Apr 02-09, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	2.98
1.7-3.3	24.41
0.3-1.7	59.52
Calms	13.10

Location : บ้านขันบอน (GPS 47P 0728177, 1619188)

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Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113216
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3474293-1

Sample Description Air Quality
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722982, 1616353)
Date Analysis Commenced Apr 11, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113216-1	Apr 02 - Apr 03, 2026	753	36.6	99.9	50.4
25113216-2	Apr 03 - Apr 04, 2026	753	36.5	110	59.6
25113216-3	Apr 04 - Apr 05, 2026	753	36.4	109	58.9
25113216-4	Apr 05 - Apr 06, 2026	753	35.9	119	71.0
25113216-5	Apr 06 - Apr 07, 2026	753	36.0	104	59.5
25113216-6	Apr 07 - Apr 08, 2026	753	36.1	129	74.0
25113216-7	Apr 08 - Apr 09, 2026	753	36.2	121	71.7
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Winyou Boontanai

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113001
Date Received : Apr 10, 2026
Date Reported : Apr 20, 2026
Report Number: 3473463-1

Sample Description Air Quality
Location โรงเรียนอนุมาลทับกวาง (GPS 47P 0722982, 1616353)
Parameter Nitrogen dioxide (ppb)
Measurement Date Apr 02, 2026 - Apr 09, 2026
Measurement by Winyou Boontanai

Time	25113001-1 Apr 02, 2026	25113001-2 Apr 03, 2026	25113001-3 Apr 04, 2026	25113001-4 Apr 05, 2026	25113001-5 Apr 06, 2026	25113001-6 Apr 07, 2026	25113001-7 Apr 08, 2026
12:00 PM - 01:00 PM	10.2	8.3	17.0	15.1	17.6	14.2	11.6
01:00 PM - 02:00 PM	6.0	9.0	15.8	14.4	14.0	10.7	10.7
02:00 PM - 03:00 PM	9.3	10.0	14.3	17.2	18.4	8.9	16.0
03:00 PM - 04:00 PM	24.5	19.5	22.3	21.9	19.1	7.1	15.5
04:00 PM - 05:00 PM	21.7	23.0	30.8	20.5	24.4	11.2	15.9
05:00 PM - 06:00 PM	25.8	28.5	39.8	35.1	38.9	13.0	34.4
06:00 PM - 07:00 PM	40.1	41.9	51.1	45.4	56.2	42.2	42.7
07:00 PM - 08:00 PM	47.9	43.7	57.5	17.7	19.3	16.0	18.0
08:00 PM - 09:00 PM	45.6	30.3	58.5	53.7	47.5	58.7	56.5
09:00 PM - 10:00 PM	38.2	32.2	41.1	36.1	35.9	5.0	41.9
10:00 PM - 11:00 PM	37.7	25.9	34.0	21.8	25.6	10.5	35.3
11:00 PM - 12:00 AM	35.7	27.6	29.9	19.1	24.8	52.9	27.1
12:00 AM - 01:00 AM	26.1	27.9	20.2	13.2	21.5	25.0	21.5
01:00 AM - 02:00 AM	22.7	23.7	16.5	18.9	23.4	22.3	20.5
02:00 AM - 03:00 AM	20.6	22.8	16.1	21.1	19.6	26.4	22.9
03:00 AM - 04:00 AM	22.5	24.2	16.2	16.2	22.5	23.5	24.4
04:00 AM - 05:00 AM	19.5	22.4	19.5	19.2	21.2	26.2	21.2
05:00 AM - 06:00 AM	25.1	24.0	25.0	20.0	23.3	32.9	27.1
06:00 AM - 07:00 AM	25.0	26.1	27.3	23.7	28.2	27.0	24.9
07:00 AM - 08:00 AM	22.0	22.6	19.8	18.8	24.7	23.0	25.0
08:00 AM - 09:00 AM	19.3	18.8	16.0	13.1	17.4	15.8	16.8
09:00 AM - 10:00 AM	15.9	15.0	14.1	15.3	15.9	15.0	16.4
10:00 AM - 11:00 AM	16.8	17.2	15.0	17.9	18.0	16.6	15.5
11:00 AM - 12:00 PM	9.2	17.4	19.6	15.6	12.4	13.5	12.2
Average	24.5	23.4	26.6	22.1	24.6	21.6	23.9
1hr - Maximum	47.9	43.7	58.5	53.7	56.2	58.7	56.5
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113199
Date Received : Apr 10, 2026
Date Reported : Apr 20, 2026
Report Number: 3474233-1

Sample Description Air Quality
Location โรงเรียนอนุมาลทับกวาง (GPS 47P 0722982, 1616353)
Parameter Sulfur Dioxide (ppb)
Measurement Date Apr 02, 2026 - Apr 09, 2026
Measurement by Winyou Boontanai

Time	25113199-1 Apr 02, 2026	25113199-2 Apr 03, 2026	25113199-3 Apr 04, 2026	25113199-4 Apr 05, 2026	25113199-5 Apr 06, 2026	25113199-6 Apr 07, 2026	25113199-7 Apr 08, 2026
12:00 PM - 01:00 PM	1.5	0.4	0.5	0.4	0.4	0.6	0.5
01:00 PM - 02:00 PM	1.6	0.3	0.5	0.5	0.5	0.6	0.6
02:00 PM - 03:00 PM	0.5	0.2	0.7	0.9	0.6	1.0	0.7
03:00 PM - 04:00 PM	0.4	0.2	0.6	2.6	0.8	1.3	0.7
04:00 PM - 05:00 PM	0.4	0.1	0.6	2.8	1.0	0.9	0.6
05:00 PM - 06:00 PM	0.4	1.5	0.5	5.5	0.9	1.2	0.6
06:00 PM - 07:00 PM	0.3	1.9	0.3	1.9	1.3	0.9	0.7
07:00 PM - 08:00 PM	0.5	2.2	0.6	2.0	1.4	1.0	1.1
08:00 PM - 09:00 PM	1.3	1.4	0.7	2.0	1.1	0.6	1.5
09:00 PM - 10:00 PM	2.4	1.9	0.8	1.5	1.0	1.0	1.4
10:00 PM - 11:00 PM	1.7	1.2	0.8	2.0	1.4	1.3	1.1
11:00 PM - 12:00 AM	1.2	0.8	0.8	3.4	1.4	1.2	0.9
12:00 AM - 01:00 AM	0.8	1.2	0.4	1.8	1.1	1.5	0.9
01:00 AM - 02:00 AM	0.6	1.3	0.7	1.5	1.1	1.2	1.0
02:00 AM - 03:00 AM	0.9	1.0	0.6	1.3	1.0	1.5	0.8
03:00 AM - 04:00 AM	1.4	0.8	0.6	0.9	1.0	1.7	0.9
04:00 AM - 05:00 AM	1.4	0.5	0.6	1.0	0.9	1.3	1.2
05:00 AM - 06:00 AM	1.1	0.4	0.5	1.3	0.8	2.0	1.4
06:00 AM - 07:00 AM	0.7	0.4	0.5	1.2	0.8	1.6	1.2
07:00 AM - 08:00 AM	0.7	0.5	0.5	1.0	0.8	1.4	1.2
08:00 AM - 09:00 AM	0.5	0.4	0.4	0.7	0.7	0.8	0.6
09:00 AM - 10:00 AM	0.4	0.4	0.4	0.7	0.7	0.5	0.5
10:00 AM - 11:00 AM	0.5	0.3	0.4	0.7	0.8	0.5	0.5
11:00 AM - 12:00 PM	0.4	0.5	0.4	0.7	0.7	0.5	0.6
Average	0.9	0.8	0.5	1.6	0.9	1.1	0.9
1hr - Maximum	2.4	2.2	0.8	5.5	1.4	2.0	1.5
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112975
Date Received :Apr 10, 2026
Date Reported :Apr 21, 2026
Report Number :3473395-1

Sample Number 25112975-1 to 7
Parameter Wind Speed / Wind Direction
Location โรงเรียนอนุบาลหินกวาง (GPS 47P 0722982, 1616353)
Sampling Date Apr 02 - Apr 09, 2026
Sampling by Winyou Boontanai

Time	Apr 02 - Apr 03, 2026			Apr 03 - Apr 04, 2026			Apr 04 - Apr 05, 2026			Apr 05 - Apr 06, 2026			Apr 06 - Apr 07, 2026			Apr 07 - Apr 08, 2026			Apr 08 - Apr 09, 2026		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
12:00 PM - 01:00 PM	1.7	168.0	SSE	4.3	251.0	WSW	2.6	195.0	SSW	3.5	162.0	SSE	1.5	122.0	ESE	1.9	157.0	SSE	1.1	52.0	NE
01:00 PM - 02:00 PM	1.8	215.0	SW	2.2	198.0	SSW	1.9	199.0	SSW	0.7	29.0	NNE	1.4	105.0	ESE	2.6	153.0	SSE	2.3	161.0	SSE
02:00 PM - 03:00 PM	2.6	161.0	SSE	3.5	163.0	SSE	1.2	164.0	SSE	3.8	157.0	SSE	3.6	146.0	SE	0.8	214.0	SW	1.0	73.0	ENE
03:00 PM - 04:00 PM	1.8	185.0	S	1.3	0.0	N	0.6	208.0	SSW	3.1	194.0	SSW	3.2	200.0	SSW	1.3	229.0	SW	1.4	190.0	S
04:00 PM - 05:00 PM	1.9	203.0	SSW	2.3	166.0	SSE	1.9	182.0	S	3.5	140.0	SE	0.8	153.0	SSE	1.4	272.0	W	2.5	166.0	SSE
05:00 PM - 06:00 PM	1.6	128.0	SE	1.7	138.0	SE	1.6	163.0	SSE	1.4	177.0	S	0.4	32.0	NNE	0.0	-	-	1.3	119.0	ESE
06:00 PM - 07:00 PM	1.1	75.0	ENE	1.4	104.0	ESE	0.7	46.0	NE	0.4	91.0	E	0.2	-	-	0.0	-	-	0.6	153.0	SSE
07:00 PM - 08:00 PM	1.4	92.0	E	0.4	232.0	SW	0.6	79.0	E	0.5	160.0	SSE	0.5	76.0	ENE	0.0	-	-	0.3	117.0	ESE
08:00 PM - 09:00 PM	0.0	-	-	1.6	205.0	SSW	0.0	-	-	0.0	-	-	1.1	103.0	ESE	0.4	148.0	SSE	0.8	135.0	SE
09:00 PM - 10:00 PM	0.6	243.0	WSW	0.2	-	-	0.0	-	-	0.0	-	-	0.5	231.0	SW	0.0	-	-	0.2	-	-
10:00 PM - 11:00 PM	0.4	149.0	SSE	1.8	175.0	S	0.3	248.0	WSW	0.3	225.0	SW	3.0	190.0	S	0.3	221.0	SW	0.8	238.0	WSW
11:00 PM - 12:00 AM	1.3	134.0	SE	0.9	34.0	NE	0.3	177.0	S	1.0	282.0	WNW	0.6	133.0	SE	0.2	-	-	0.4	252.0	WSW
12:00 AM - 01:00 AM	0.2	-	-	1.2	146.0	SE	2.1	160.0	SSE	0.5	145.0	SE	3.5	148.0	SSE	1.5	181.0	S	0.0	-	-
01:00 AM - 02:00 AM	2.4	147.0	SSE	0.2	-	-	0.6	150.0	SSE	0.4	245.0	WSW	1.5	166.0	SSE	0.9	172.0	S	0.0	-	-
02:00 AM - 03:00 AM	1.2	179.0	S	0.5	161.0	SSE	1.3	149.0	SSE	0.3	28.0	NNE	3.0	149.0	SSE	0.0	-	-	0.6	78.0	ENE
03:00 AM - 04:00 AM	0.8	130.0	SE	1.9	52.0	NE	0.6	215.0	SW	0.2	-	-	1.6	201.0	SSW	0.0	-	-	0.6	138.0	SE
04:00 AM - 05:00 AM	0.2	-	-	1.3	157.0	SSE	1.0	183.0	S	1.6	189.0	S	0.5	85.0	E	0.7	62.0	ENE	0.6	214.0	SW
05:00 AM - 06:00 AM	0.2	-	-	1.1	196.0	SSW	0.5	118.0	ESE	0.9	152.0	SSE	1.0	145.0	SE	0.4	178.0	S	0.0	-	-
06:00 AM - 07:00 AM	1.0	67.0	ENE	0.7	190.0	S	0.1	-	-	0.4	41.0	NE	0.3	142.0	SE	1.4	139.0	SE	0.9	132.0	SE
07:00 AM - 08:00 AM	1.3	174.0	S	3.6	171.0	S	1.7	178.0	S	2.1	233.0	SW	1.5	194.0	SSW	3.3	177.0	S	2.2	152.0	SSE
08:00 AM - 09:00 AM	1.1	305.0	NW	1.8	157.0	SSE	0.8	356.0	N	1.1	179.0	S	3.9	196.0	SSW	3.6	110.0	ESE	1.2	61.0	ENE
09:00 AM - 10:00 AM	2.0	155.0	SSE	1.9	89.0	E	0.8	230.0	SW	2.0	23.0	NNE	2.0	100.0	E	1.4	123.0	ESE	3.6	145.0	SE
10:00 AM - 11:00 AM	0.4	154.0	SSE	2.0	103.0	ESE	3.8	142.0	SE	1.6	119.0	ESE	1.8	172.0	S	2.2	221.0	SW	1.3	120.0	ESE
11:00 AM - 12:00 PM	1.2	246.0	WSW	0.7	188.0	S	1.7	125.0	SE	0.7	104.0	ESE	0.4	85.0	E	1.4	210.0	SSW	0.7	143.0	SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

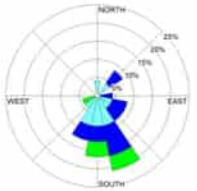
Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112975
Date Received :Apr 10, 2026
Date Reported :Apr 21, 2026
Report Number :3473395-1

Wind Rose

Date : Apr 02-03, 2026



Date : Apr 03-04, 2026

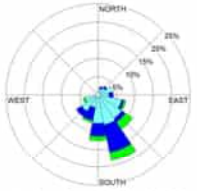
Date : Apr 04-05, 2026

Date : Apr 05-06, 2026

Date : Apr 06-07, 2026

Date : Apr 07-08, 2026

Date : Apr 08-09, 2026



Date : Apr 02-09, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	7.74
1.7-3.3	20.83
0.3-1.7	57.14
Calms	14.29

Location : โรงเรียนอนุบาลหินกวาง (GPS 47P 0722982, 1616353)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand I PHONE +66 0 2760 3000 I FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636223
Date Received : May 12, 2026
Date Reported : May 20, 2026
Report Number: 3560089-1

Sample Description Air Quality
Location โรงเรียนชุมชนนิคมทับกวางสงเคราะห์ (GPS 47P 0725095, 1614326)
Date Analysis Commenced May 14, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
2636223-1	May 03 - May 04, 2026	755	35.7	58.2	32.3
2636223-2	May 04 - May 05, 2026	755	35.2	72.0	48.6
2636223-3	May 05 - May 06, 2026	755	34.6	74.8	36.6
2636223-4	May 06 - May 07, 2026	755	35.2	77.9	46.9
2636223-5	May 07 - May 08, 2026	755	35.6	52.9	31.4
2636223-6	May 08 - May 09, 2026	755	35.6	62.9	35.1
2636223-7	May 09 - May 10, 2026	755	35.4	99.2	51.8
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Prommee Sripatnet

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636221
Date Received : May 12, 2026
Date Reported : May 16, 2026
Report Number: 3560087-1

Sample Description Air Quality
Location โรงเรียนชุมชนนิคมทับกวางสงเคราะห์ (GPS 47P 0725095, 1614326)
Parameter Nitrogen dioxide (ppb)
Measurement Date May 03, 2026 - May 10, 2026
Measurement by Prommee Sripatnet

Time	2636221-1 May 03, 2026	2636221-2 May 04, 2026	2636221-3 May 05, 2026	2636221-4 May 06, 2026	2636221-5 May 07, 2026	2636221-6 May 08, 2026	2636221-7 May 09, 2026
12:00 PM - 01:00 PM	3.7	4.0	33.6	22.7	2.5	30.2	4.8
01:00 PM - 02:00 PM	3.2	8.0	35.4	12.7	2.8	11.7	4.8
02:00 PM - 03:00 PM	2.4	24.6	28.9	5.4	1.5	32.7	2.1
03:00 PM - 04:00 PM	2.0	31.9	22.0	3.6	0.4	23.3	2.5
04:00 PM - 05:00 PM	8.5	39.0	21.8	5.8	2.7	16.7	3.0
05:00 PM - 06:00 PM	18.7	35.4	16.8	4.9	10.2	20.9	13.8
06:00 PM - 07:00 PM	21.6	13.5	7.8	6.3	9.6	7.4	19.2
07:00 PM - 08:00 PM	61.5	17.2	23.0	7.3	15.3	5.6	7.2
08:00 PM - 09:00 PM	13.1	7.4	14.1	4.9	7.2	2.4	3.6
09:00 PM - 10:00 PM	3.9	6.3	3.5	4.9	6.1	6.3	2.4
10:00 PM - 11:00 PM	9.7	15.9	7.0	9.2	12.4	9.0	15.5
11:00 PM - 12:00 AM	24.1	28.5	11.7	17.9	7.8	13.4	13.2
12:00 AM - 01:00 AM	18.1	27.1	4.2	15.0	5.6	13.3	8.5
01:00 AM - 02:00 AM	12.7	12.4	17.3	11.0	7.6	16.3	12.1
02:00 AM - 03:00 AM	7.8	14.7	14.8	8.3	9.1	17.0	12.3
03:00 AM - 04:00 AM	7.4	8.7	7.6	7.8	8.3	6.6	8.7
04:00 AM - 05:00 AM	5.1	17.2	4.6	15.3	9.7	16.8	11.1
05:00 AM - 06:00 AM	7.0	36.1	11.3	23.7	24.5	30.0	14.6
06:00 AM - 07:00 AM	5.6	23.0	11.5	18.5	17.5	17.1	15.8
07:00 AM - 08:00 AM	4.1	18.7	6.7	8.9	21.5	28.5	24.6
08:00 AM - 09:00 AM	2.8	18.2	3.2	2.9	12.2	8.8	30.8
09:00 AM - 10:00 AM	1.7	23.6	2.3	2.0	4.1	4.3	21.4
10:00 AM - 11:00 AM	3.2	30.5	3.2	1.9	6.4	5.4	42.8
11:00 AM - 12:00 PM	9.1	31.6	4.2	3.2	47.2	7.3	14.7
Average	10.7	20.6	13.2	9.3	10.5	14.6	12.9
1hr - Maximum	61.5	39.0	35.4	23.7	47.2	32.7	42.8
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636222
Date Received : May 12, 2026
Date Reported : May 16, 2026
Report Number: 3560088-1

Sample Description Air Quality
Location โรงเรียนชุมชนนิคมทับกวางสงเคราะห์ (GPS 47P 0725095, 1614326)
Parameter Sulfur Dioxide (ppb)
Measurement Date May 03, 2026 - May 10, 2026
Measurement by Prommee Sripatnet

Time	2636222-1 May 03, 2026	2636222-2 May 04, 2026	2636222-3 May 05, 2026	2636222-4 May 06, 2026	2636222-5 May 07, 2026	2636222-6 May 08, 2026	2636222-7 May 09, 2026
12:00 PM - 01:00 PM	2.2	2.1	2.1	1.8	1.8	1.9	1.8
01:00 PM - 02:00 PM	2.2	2.1	2.4	1.9	1.9	2.0	1.9
02:00 PM - 03:00 PM	2.2	2.1	2.5	2.2	1.9	2.1	1.8
03:00 PM - 04:00 PM	2.3	2.2	3.1	2.2	1.9	2.2	1.8
04:00 PM - 05:00 PM	2.6	2.3	3.2	2.2	1.9	2.3	1.9
05:00 PM - 06:00 PM	2.5	2.4	3.2	2.2	1.9	2.3	2.0
06:00 PM - 07:00 PM	2.4	2.3	3.1	2.1	2.1	2.3	2.0
07:00 PM - 08:00 PM	2.7	2.3	3.0	2.2	2.1	2.3	2.0
08:00 PM - 09:00 PM	2.7	2.2	2.8	2.2	2.0	2.3	2.2
09:00 PM - 10:00 PM	2.6	2.4	2.7	2.2	2.1	2.2	2.0
10:00 PM - 11:00 PM	2.4	2.2	2.5	2.3	2.2	2.1	2.1
11:00 PM - 12:00 AM	2.5	2.2	2.5	2.2	2.1	2.4	2.1
12:00 AM - 01:00 AM	2.3	2.4	2.4	2.2	2.1	2.2	2.1
01:00 AM - 02:00 AM	2.4	2.3	2.3	2.2	2.2	2.1	2.1
02:00 AM - 03:00 AM	2.4	2.4	2.4	2.3	2.1	2.1	2.2
03:00 AM - 04:00 AM	2.4	2.4	2.4	2.2	2.1	2.3	2.2
04:00 AM - 05:00 AM	2.3	2.4	2.4	2.2	2.2	2.3	2.2
05:00 AM - 06:00 AM	2.4	2.3	2.4	2.3	2.2	2.2	2.2
06:00 AM - 07:00 AM	2.4	2.5	2.3	2.3	2.3	2.2	2.2
07:00 AM - 08:00 AM	2.5	2.3	2.3	2.3	2.2	2.3	2.3
08:00 AM - 09:00 AM	2.4	2.3	2.3	2.2	2.2	2.4	2.2
09:00 AM - 10:00 AM	2.2	2.4	2.1	2.0	1.9	2.2	2.1
10:00 AM - 11:00 AM	2.1	2.3	2.0	1.9	1.9	2.0	1.7
11:00 AM - 12:00 PM	2.0	2.1	1.9	1.8	1.8	1.9	1.7
Average	2.4	2.3	2.5	2.1	2.0	2.2	2.0
1hr - Maximum	2.7	2.5	3.2	2.3	2.3	2.4	2.3
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636220
Date Received :May 12, 2026
Date Reported :May 18, 2026
Report Number :3560086-1

Sample Number 2636220-1 to 7
Parameter Wind Speed / Wind Direction
Location โรงเรียนชุมชนนิคมทับกวางสงเคราะห์ (GPS 47P 0725095, 1614326)
Sampling Date May 03 - May 10, 2026
Sampling by Prommee Sripatnet

Time	May 03 - May 04, 2026			May 04 - May 05, 2026			May 05 - May 06, 2026			May 06 - May 07, 2026			May 07 - May 08, 2026			May 08 - May 09, 2026			May 09 - May 10, 2026		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
12:00 PM - 01:00 PM	1.2	172.0	S	1.6	201.0	SSW	1.4	149.0	SSE	1.3	102.0	ESE	1.7	239.0	WSW	0.2	-	-	2.6	88.0	E
01:00 PM - 02:00 PM	1.7	149.0	SSE	1.6	106.0	ESE	0.7	325.0	NW	2.9	71.0	ENE	1.7	322.0	NW	1.3	57.0	ENE	2.6	46.0	NE
02:00 PM - 03:00 PM	1.5	205.0	SSW	1.2	0.0	N	0.8	322.0	NW	0.9	57.0	ENE	1.7	146.0	SE	2.7	359.0	N	2.2	54.0	NE
03:00 PM - 04:00 PM	1.2	139.0	SE	1.6	35.0	NE	0.9	7.0	N	2.2	62.0	ENE	2.4	154.0	SSE	1.5	350.0	N	2.0	124.0	SE
04:00 PM - 05:00 PM	1.8	61.0	ENE	1.2	87.0	E	0.7	184.0	S	2.1	47.0	NE	2.7	165.0	SSE	1.1	40.0	NE	0.2	-	-
05:00 PM - 06:00 PM	1.4	180.0	S	0.4	60.0	ENE	0.7	53.0	NE	1.4	72.0	ENE	2.1	192.0	SSW	1.8	71.0	ENE	0.4	130.0	SE
06:00 PM - 07:00 PM	0.4	175.0	S	0.7	293.0	WNW	2.4	101.0	E	1.2	73.0	ENE	0.2	-	-	3.1	43.0	NE	0.3	330.0	NNW
07:00 PM - 08:00 PM	0.3	-	-	0.3	3.0	N	2.4	75.0	ENE	0.5	132.0	SE	0.0	-	-	2.6	7.0	N	0.4	71.0	ENE
08:00 PM - 09:00 PM	0.0	-	-	0.2	-	-	1.2	8.0	N	0.0	-	-	0.0	-	-	1.3	177.0	S	0.1	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.3	13.0	NNE	1.0	61.0	ENE	0.0	-	-	0.0	-	-	0.7	182.0	S	0.1	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.3	262.0	W	1.4	46.0	NE	0.0	-	-	0.1	-	-	0.1	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.2	-	-	0.4	60.0	ENE	0.0	-	-	0.0	-	-	0.1	-	-	0.1	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.6	313.0	NW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.1	-	-	0.4	29.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	1.3	337.0	NNW	0.0	-	-	0.0	-	-	0.0	-	-	1.2	44.0	NE	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.9	202.0	SSW	0.5	93.0	E	0.0	-	-	0.0	-	-	0.3	186.0	S	0.7	70.0	ENE
04:00 AM - 05:00 AM	0.1	-	-	0.2	-	-	0.5	82.0	E	0.0	-	-	0.0	-	-	0.1	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.1	-	-	0.1	-	-	0.4	69.0	ENE	0.0	-	-	0.0	-	-	0.9	56.0	NE	0.0	-	-
06:00 AM - 07:00 AM	0.3	199.0	SSW	0.3	-	-	0.3	-	-	0.3	297.0	WNW	0.4	44.0	NE	0.5	62.0	ENE	0.0	-	-
07:00 AM - 08:00 AM	0.6	258.0	WSW	0.1	-	-	0.2	-	-	1.2	297.0	WNW	0.3	69.0	ENE	0.0	-	-	0.3	102.0	ESE
08:00 AM - 09:00 AM	0.2	-	-	0.3	39.0	NE	0.0	-	-	0.4	209.0	SSW	0.6	76.0	ENE	0.1	-	-	0.4	332.0	NNW
09:00 AM - 10:00 AM	0.9	210.0	SSW	0.8	15.0	NNE	0.0	-	-	1.0	198.0	SSW	1.2	235.0	SW	1.4	40.0	NE	1.5	215.0	SW
10:00 AM - 11:00 AM	0.6	205.0	SSW	0.9	110.0	ESE	1.1	278.0	W	1.5	165.0	SSE	0.6	285.0	WNW	2.7	73.0	ENE	0.6	212.0	SSW
11:00 AM - 12:00 PM	0.6	3.0	N	1.2	341.0	NNW	1.0	221.0	SW	1.7	153.0	SSE	0.2	-	-	3.0	48.0	NE	0.4	198.0	SSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

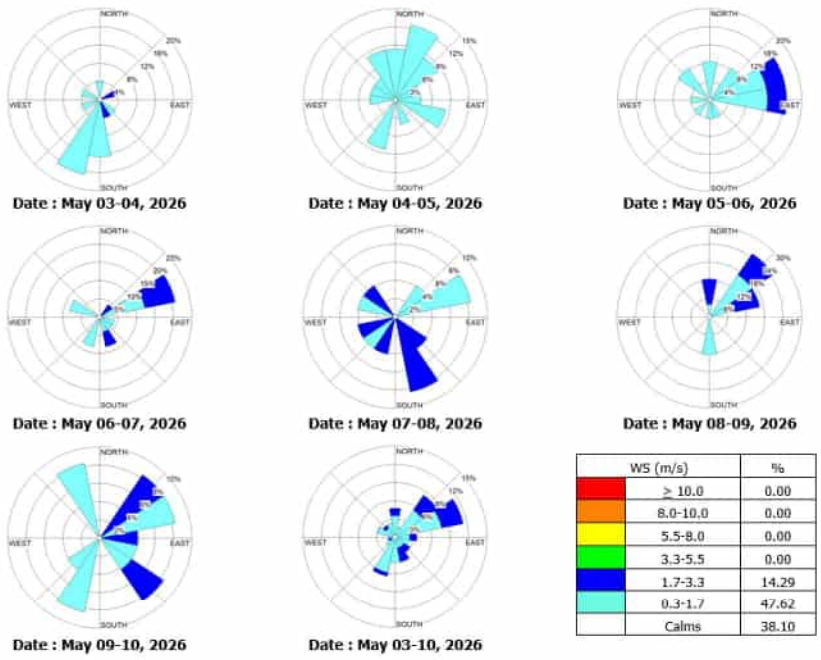
Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636220
Date Received :May 12, 2026
Date Reported :May 18, 2026
Report Number :3560086-1

Wind Rose



WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	14.29
0.3-1.7	47.62
Calms	38.10

Location : โรงเรียนชุมชนบึงพับกวางสงเคราะห์ **(GPS 47P 0725095, 1614326)**

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113219
Date Received : May 12, 2026
Date Reported : May 19, 2026
Report Number: 3474295-1

Sample Description Air Quality
Location โรงเรียนป่าไผ่ (GPS 47P 0720136, 1616520)
Date Analysis Commenced May 13, 2026
Condition of Sample Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113219-1	May 03 - May 04, 2026	755	34.2	102	53.0
25113219-2	May 04 - May 05, 2026	755	34.5	99.7	42.4
25113219-3	May 05 - May 06, 2026	755	34.2	131	55.4
25113219-4	May 06 - May 07, 2026	755	34.4	113	47.6
25113219-5	May 07 - May 08, 2026	755	34.3	97.4	39.1
25113219-6	May 08 - May 09, 2026	755	35.1	112	40.6
25113219-7	May 09 - May 10, 2026	755	34.8	156	56.8
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Prommee Sripatnet

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113008
Date Received : May 12, 2026
Date Reported : May 16, 2026
Report Number: 3473476-1

Sample Description Air Quality
Location โรงเรียนป่าไผ่ (GPS 47P 0720136, 1616520)
Parameter Nitrogen dioxide (ppb)
Measurement Date May 03, 2026 - May 10, 2026
Measurement by Prommee Sripatnet

Time	25113008-1 May 03, 2026	25113008-2 May 04, 2026	25113008-3 May 05, 2026	25113008-4 May 06, 2026	25113008-5 May 07, 2026	25113008-6 May 08, 2026	25113008-7 May 09, 2026
10:00 AM - 11:00 AM	6.7	4.8	10.1	12.7	5.6	8.1	8.1
11:00 AM - 12:00 PM	6.8	3.5	6.7	9.1	4.9	6.3	6.9
12:00 PM - 01:00 PM	5.4	8.2	3.7	5.6	4.4	5.0	7.0
01:00 PM - 02:00 PM	6.6	6.8	3.9	7.1	4.6	7.8	10.3
02:00 PM - 03:00 PM	5.3	6.2	4.7	7.5	5.4	8.9	12.4
03:00 PM - 04:00 PM	5.6	11.3	6.6	9.8	3.6	11.6	7.7
04:00 PM - 05:00 PM	8.5	9.1	6.4	10.5	4.2	6.6	4.3
05:00 PM - 06:00 PM	8.0	31.8	8.6	15.6	7.5	4.5	5.7
06:00 PM - 07:00 PM	8.9	31.5	6.9	15.7	16.8	7.5	14.9
07:00 PM - 08:00 PM	10.1	27.5	11.8	16.5	15.5	13.3	13.5
08:00 PM - 09:00 PM	30.3	26.6	30.3	17.4	14.8	19.2	9.8
09:00 PM - 10:00 PM	34.8	18.9	30.7	14.5	18.2	14.1	18.9
10:00 PM - 11:00 PM	11.2	14.4	25.6	11.6	16.3	14.1	19.8
11:00 PM - 12:00 AM	20.3	13.9	25.9	16.5	13.8	17.7	17.3
12:00 AM - 01:00 AM	20.7	14.7	24.7	11.2	12.9	13.5	15.2
01:00 AM - 02:00 AM	13.0	11.6	20.0	12.3	10.1	11.6	15.6
02:00 AM - 03:00 AM	8.8	8.0	19.2	11.0	8.7	8.8	15.0
03:00 AM - 04:00 AM	9.4	10.3	20.7	9.0	6.5	12.2	14.0
04:00 AM - 05:00 AM	9.3	8.6	22.0	11.0	5.7	16.2	11.6
05:00 AM - 06:00 AM	9.9	10.8	20.1	12.8	8.6	10.9	10.0
06:00 AM - 07:00 AM	13.5	15.1	19.4	11.4	13.9	7.5	10.0
07:00 AM - 08:00 AM	12.7	27.2	16.9	10.2	9.7	15.7	9.4
08:00 AM - 09:00 AM	9.3	22.7	21.2	11.6	15.1	10.4	9.1
09:00 AM - 10:00 AM	7.0	12.1	14.8	7.8	12.2	5.9	10.6
Average	11.8	14.8	15.9	11.6	10.0	10.7	11.5
1hr - Maximum	34.8	31.8	30.7	17.4	18.2	19.2	19.8
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113203
Date Received : May 12, 2026
Date Reported : May 16, 2026
Report Number: 3474235-1

Sample Description Air Quality
Location โรงเรียนป่าไผ่ (GPS 47P 0720136, 1616520)
Parameter Sulfur Dioxide (ppb)
Measurement Date May 03, 2026 - May 10, 2026
Measurement by Prommee Sripatnet

Time	25113203-1 May 03, 2026	25113203-2 May 04, 2026	25113203-3 May 05, 2026	25113203-4 May 06, 2026	25113203-5 May 07, 2026	25113203-6 May 08, 2026	25113203-7 May 09, 2026
10:00 AM - 11:00 AM	2.6	2.3	3.4	2.9	2.8	2.9	3.2
11:00 AM - 12:00 PM	2.0	1.8	2.4	2.2	2.2	2.3	2.6
12:00 PM - 01:00 PM	1.6	1.7	2.2	2.1	1.9	2.0	2.3
01:00 PM - 02:00 PM	1.7	1.8	2.1	1.8	1.9	1.9	2.3
02:00 PM - 03:00 PM	1.9	2.0	2.0	2.0	1.8	1.7	2.1
03:00 PM - 04:00 PM	1.9	1.8	2.0	2.1	1.8	2.1	2.0
04:00 PM - 05:00 PM	1.2	1.8	1.9	2.1	1.7	2.2	2.0
05:00 PM - 06:00 PM	1.6	1.9	1.9	2.0	1.8	2.4	2.4
06:00 PM - 07:00 PM	1.8	2.1	1.8	2.0	1.9	2.6	2.3
07:00 PM - 08:00 PM	1.6	2.2	1.7	2.0	2.0	2.5	2.2
08:00 PM - 09:00 PM	1.8	2.3	2.1	2.3	2.2	2.6	2.5
09:00 PM - 10:00 PM	1.8	2.4	2.3	2.3	2.4	2.8	2.7
10:00 PM - 11:00 PM	1.9	2.4	2.4	2.4	2.7	2.8	2.8
11:00 PM - 12:00 AM	2.1	2.6	2.6	2.6	2.7	2.9	2.8
12:00 AM - 01:00 AM	2.2	2.7	2.7	2.7	2.9	3.1	3.0
01:00 AM - 02:00 AM	2.2	2.7	2.8	2.9	2.9	3.1	3.3
02:00 AM - 03:00 AM	2.5	2.6	3.0	3.0	2.9	3.2	3.5
03:00 AM - 04:00 AM	2.6	3.0	3.3	3.2	3.3	3.3	3.5
04:00 AM - 05:00 AM	2.5	3.3	3.6	3.6	3.2	3.4	3.6
05:00 AM - 06:00 AM	2.4	3.8	3.5	3.6	3.6	3.9	3.8
06:00 AM - 07:00 AM	2.5	3.6	3.9	3.7	3.5	3.6	4.0
07:00 AM - 08:00 AM	2.7	3.8	3.6	3.7	3.7	3.6	4.1
08:00 AM - 09:00 AM	2.7	4.1	3.8	3.8	3.8	3.7	4.2
09:00 AM - 10:00 AM	2.7	3.8	3.2	3.7	3.6	3.7	4.0
Average	2.1	2.6	2.7	2.7	2.6	2.8	3.0
1hr - Maximum	2.7	4.1	3.9	3.8	3.8	3.9	4.2
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112980
Date Received :May 12, 2026
Date Reported :May 18, 2026
Report Number :3473399-1

Sample Number 25112980-1 to 7
Parameter Wind Speed / Wind Direction
Location โรงเรียนป่าไผ่ (GPS 47P 0720136, 1616520)
Sampling Date May 03 - May 10, 2026
Sampling by Prommee Sripatnet

Time	May 03 - May 04, 2026			May 04 - May 05, 2026			May 05 - May 06, 2026			May 06 - May 07, 2026			May 07 - May 08, 2026			May 08 - May 09, 2026			May 09 - May 10, 2026		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	1.1	163.0	SSE	0.8	106.0	ESE	0.3	250.0	WSW	1.8	8.0	N	0.8	77.0	ENE	0.0	-	-	1.5	358.0	N
11:00 AM - 12:00 PM	0.2	-	-	1.0	44.0	NE	2.0	201.0	SSW	0.4	349.0	N	1.3	161.0	SSE	1.7	297.0	WNW	1.3	69.0	ENE
12:00 PM - 01:00 PM	2.0	307.0	NW	3.0	297.0	WNW	0.0	-	-	0.2	-	-	0.9	215.0	SW	0.8	332.0	NNW	0.7	109.0	ESE
01:00 PM - 02:00 PM	3.4	283.0	WNW	2.2	313.0	NW	1.4	208.0	SSW	1.2	45.0	NE	1.4	152.0	SSE	0.4	302.0	WNW	0.3	157.0	SSE
02:00 PM - 03:00 PM	0.9	76.0	ENE	0.4	127.0	SE	0.0	-	-	0.6	56.0	NE	0.3	126.0	SE	0.9	72.0	ENE	0.6	272.0	W
03:00 PM - 04:00 PM	0.3	174.0	S	0.8	63.0	ENE	0.9	168.0	SSE	0.4	67.0	ENE	0.0	-	-	0.8	39.0	NE	0.3	273.0	W
04:00 PM - 05:00 PM	1.0	239.0	WSW	0.0	-	-	0.5	194.0	SSW	2.3	45.0	NE	0.0	-	-	0.4	333.0	NNW	1.4	19.0	NNE
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	0.4	66.0	ENE	1.2	173.0	S	0.6	328.0	NNW	0.5	53.0	NE	0.5	24.0	NNE
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	1.5	125.0	SE	0.2	-	-	0.7	146.0	SE	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.1	-	-	0.0	-	-	0.7	146.0	SE	0.6	165.0	SSE	0.0	-	-	0.0	-	-	0.6	214.0	SW
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.1	-	-	0.2	-	-
09:00 PM - 10:00 PM	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.6	153.0	SSE	1.1	253.0	WSW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.1	259.0	W	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.5	107.0	ESE	0.0	-	-	0.2	-	-	0.2	-	-	0.4	64.0	ENE	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.8	143.0	SE
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.1	0.0	N	0.7	220.0	SW
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.1	-	-	0.7	74.0	ENE	0.6	66.0	ENE	1.7	305.0	NW	0.3	146.0	SE
05:00 AM - 06:00 AM	0.4	105.0	ESE	0.0	-	-	0.9	180.0	S	0.3	154.0	SSE	0.1	-	-	0.8	310.0	NW	1.2	153.0	SSE
06:00 AM - 07:00 AM	0.2	-	-	2.8	307.0	NW	1.0	250.0	WSW	0.6	172.0	S	0.7	323.0	NW	1.8	329.0	NNW	0.4	181.0	S
07:00 AM - 08:00 AM	0.6	222.0	SW	0.7	287.0	WNW	1.7	132.0	SE	1.2	172.0	S	0.7	143.0	SE	1.6	331.0	NNW	0.5	144.0	SE
08:00 AM - 09:00 AM	1.4	138.0	SE	0.8	296.0	WNW	1.1	281.0	W	1.0	228.0	SW	0.7	289.0	WNW	0.5	350.0	N	1.0	149.0	SSE
09:00 AM - 10:00 AM	0.0	-	-	0.3	293.0	WNW	0.8	249.0	WSW	0.7	165.0	SSE	2.0	50.0	NE	0.2	-	-	1.7	303.0	WNW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112980
Date Received :May 12, 2026
Date Reported :May 18, 2026
Report Number :3473399-1

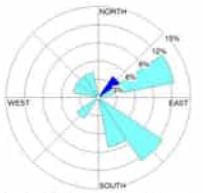
Wind Rose

Date : May 03-04, 2026

Date : May 04-05, 2026

Date : May 05-06, 2026

Date : May 06-07, 2026



Date : May 07-08, 2026

Date : May 08-09, 2026

Date : May 09-10, 2026

Date : May 03-10, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.60
1.7-3.3	8.33
0.3-1.7	46.43
Calms	44.64

Location : โรงเรียนป่าไผ่ (GPS 47P 0720136, 1616520)

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Approved by
Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand I PHONE +66 0 2760 3000 I FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113220
Date Received : May 12, 2026
Date Reported : May 19, 2026
Report Number: 3474296-1

Sample Description Air Quality
Location วัดวาลุกาลาม (วัดหนองผักบุ้ง) (GPS 47P 0720392, 1613911)
Date Analysis Commenced May 13, 2026
Condition of Sample Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113220-1	May 03 - May 04, 2026	753	36.8	59.8	28.5
25113220-2	May 04 - May 05, 2026	753	36.4	64.3	35.7
25113220-3	May 05 - May 06, 2026	753	36.3	71.0	35.1
25113220-4	May 06 - May 07, 2026	753	36.8	66.2	24.6
25113220-5	May 07 - May 08, 2026	753	37.1	46.6	27.1
25113220-6	May 08 - May 09, 2026	753	35.7	87.1	40.5
25113220-7	May 09 - May 10, 2026	753	36.2	98.4	45.0
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Prommee Sripatnet

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113014
Date Received : May 12, 2026
Date Reported : May 16, 2026
Report Number: 3473482-1

Sample Description Air Quality
Location วัดวาลุกาลาม (วัดหนองผักบุ้ง) (GPS 47P 0720392, 1613911)
Parameter Nitrogen dioxide (ppb)
Measurement Date May 03, 2026 - May 10, 2026
Measurement by Prommee Sripatnet

Time	25113014-1 May 03, 2026	25113014-2 May 04, 2026	25113014-3 May 05, 2026	25113014-4 May 06, 2026	25113014-5 May 07, 2026	25113014-6 May 08, 2026	25113014-7 May 09, 2026
01:00 PM - 02:00 PM	7.6	4.3	4.9	4.8	19.6	6.0	10.4
02:00 PM - 03:00 PM	5.7	4.5	4.8	4.2	14.1	6.0	5.3
03:00 PM - 04:00 PM	4.5	5.7	5.2	3.4	8.7	9.2	5.6
04:00 PM - 05:00 PM	3.8	5.3	5.7	4.0	9.4	11.8	5.9
05:00 PM - 06:00 PM	4.3	6.2	6.3	5.5	13.9	12.0	6.5
06:00 PM - 07:00 PM	5.2	7.6	8.2	4.0	6.3	11.7	12.1
07:00 PM - 08:00 PM	8.9	9.5	11.3	11.6	8.9	15.4	19.7
08:00 PM - 09:00 PM	14.0	7.6	23.9	18.9	15.5	13.7	26.0
09:00 PM - 10:00 PM	11.1	10.6	7.1	19.3	10.3	13.9	23.0
10:00 PM - 11:00 PM	18.7	10.7	8.3	16.2	10.7	14.4	20.3
11:00 PM - 12:00 AM	17.3	11.3	6.3	19.2	10.9	10.2	18.3
12:00 AM - 01:00 AM	14.1	13.4	4.8	15.5	11.9	7.9	16.6
01:00 AM - 02:00 AM	6.7	10.3	6.1	11.0	13.0	6.7	16.1
02:00 AM - 03:00 AM	4.5	5.6	4.7	9.9	10.4	6.5	12.2
03:00 AM - 04:00 AM	8.2	7.1	4.5	8.2	10.4	6.9	4.9
04:00 AM - 05:00 AM	8.1	9.6	4.9	8.6	11.1	6.9	5.2
05:00 AM - 06:00 AM	9.2	5.5	5.5	10.1	11.7	7.3	10.7
06:00 AM - 07:00 AM	9.3	6.2	5.7	9.5	11.6	7.6	12.8
07:00 AM - 08:00 AM	8.9	9.2	6.7	12.2	10.7	8.9	12.9
08:00 AM - 09:00 AM	11.5	11.5	7.5	11.7	10.8	8.7	14.3
09:00 AM - 10:00 AM	15.5	13.6	7.4	7.4	11.5	11.6	15.3
10:00 AM - 11:00 AM	16.5	11.3	7.3	6.7	13.0	9.9	32.1
11:00 AM - 12:00 PM	15.0	7.7	6.6	5.6	8.2	10.2	14.4
12:00 PM - 01:00 PM	9.7	9.4	6.3	4.7	6.5	10.0	12.4
Average	9.9	8.5	7.1	9.7	11.2	9.7	13.9
1hr - Maximum	18.7	13.6	23.9	19.3	19.6	15.4	32.1
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113204
Date Received : May 12, 2026
Date Reported : May 16, 2026
Report Number: 3474237-1

Sample Description Air Quality
Location วัดวาลุกาลาม (วัดหนองผักนุ่ง) (GPS 47P 0720392, 1613911)
Parameter Sulfur Dioxide (ppb)
Measurement Date May 03, 2026 - May 10, 2026
Measurement by Prommee Sripatnet

Time	25113204-1 May 03, 2026	25113204-2 May 04, 2026	25113204-3 May 05, 2026	25113204-4 May 06, 2026	25113204-5 May 07, 2026	25113204-6 May 08, 2026	25113204-7 May 09, 2026
01:00 PM - 02:00 PM	2.7	1.1	1.1	1.3	1.5	1.4	1.3
02:00 PM - 03:00 PM	3.3	1.1	1.0	1.1	1.4	1.3	1.1
03:00 PM - 04:00 PM	3.7	1.1	1.2	1.4	1.4	1.4	1.1
04:00 PM - 05:00 PM	3.3	1.1	1.1	1.1	1.1	1.3	1.1
05:00 PM - 06:00 PM	2.7	1.1	1.2	1.0	1.6	1.7	1.4
06:00 PM - 07:00 PM	2.7	1.3	1.3	1.3	1.6	1.6	1.2
07:00 PM - 08:00 PM	2.2	1.1	1.5	1.4	1.6	1.7	1.2
08:00 PM - 09:00 PM	2.0	1.3	1.4	1.1	1.8	1.5	1.3
09:00 PM - 10:00 PM	1.9	1.1	1.2	1.2	1.6	1.6	1.3
10:00 PM - 11:00 PM	1.9	1.2	1.3	1.1	1.5	1.2	1.3
11:00 PM - 12:00 AM	1.9	1.0	1.5	1.0	1.4	1.4	1.4
12:00 AM - 01:00 AM	1.8	1.0	1.3	1.2	1.6	1.3	1.4
01:00 AM - 02:00 AM	1.6	1.1	1.2	1.4	1.4	1.4	1.6
02:00 AM - 03:00 AM	1.4	1.1	1.3	1.4	1.3	1.4	1.5
03:00 AM - 04:00 AM	1.2	1.1	1.3	1.4	1.3	1.0	1.5
04:00 AM - 05:00 AM	1.1	1.2	1.3	1.5	1.2	1.1	1.4
05:00 AM - 06:00 AM	1.3	1.2	1.3	1.6	1.1	1.4	1.4
06:00 AM - 07:00 AM	1.2	1.2	1.2	1.5	1.1	1.3	1.4
07:00 AM - 08:00 AM	1.2	1.2	1.5	1.9	1.3	1.3	1.5
08:00 AM - 09:00 AM	1.2	1.3	1.5	2.1	1.7	1.2	1.5
09:00 AM - 10:00 AM	1.2	1.4	1.7	2.2	1.6	1.3	1.6
10:00 AM - 11:00 AM	1.3	1.3	1.5	2.0	1.7	1.2	1.5
11:00 AM - 12:00 PM	1.3	1.2	1.4	1.6	1.5	1.3	1.2
12:00 PM - 01:00 PM	1.2	1.2	1.4	1.6	1.5	1.4	1.2
Average	1.9	1.2	1.3	1.4	1.4	1.4	1.3
1hr - Maximum	3.7	1.4	1.7	2.2	1.8	1.7	1.6
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112982
Date Received :May 12, 2026
Date Reported :May 18, 2026
Report Number :3473402-1

Sample Number 25112982-1 to 7
Parameter Wind Speed / Wind Direction
Location วัดวาลุกาลาม (วัดหนองผักนุ่ง) (GPS 47P 0720392, 1613911)
Sampling Date May 03 - May 10, 2026
Sampling by Prommee Sripatnet

Time	May 03 - May 04, 2026		May 04 - May 05, 2026		May 05 - May 06, 2026		May 06 - May 07, 2026		May 07 - May 08, 2026		May 08 - May 09, 2026		May 09 - May 10, 2026	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
01:00 PM - 02:00 PM	1.7	186.0 S	1.6	142.0 SE	0.9	209.0 SSW	1.3	149.0 SSE	0.5	356.0 N	0.4	76.0 ENE	0.7	279.0 W
02:00 PM - 03:00 PM	1.8	163.0 SSE	1.2	42.0 NE	0.9	353.0 N	2.4	186.0 S	1.2	27.0 NNE	0.3	- -	0.5	38.0 NE
03:00 PM - 04:00 PM	1.5	155.0 SSE	0.6	69.0 ENE	1.1	101.0 E	2.3	178.0 S	0.5	24.0 NNE	0.6	321.0 NW	0.8	48.0 NE
04:00 PM - 05:00 PM	1.0	193.0 SSW	0.2	- -	1.0	171.0 S	1.5	232.0 SW	1.0	29.0 NNE	0.4	73.0 ENE	0.8	144.0 SE
05:00 PM - 06:00 PM	1.5	338.0 NNW	0.4	153.0 SSE	1.1	173.0 S	0.8	156.0 SSE	0.6	319.0 NW	0.6	68.0 ENE	0.4	359.0 N
06:00 PM - 07:00 PM	0.3	26.0 NNE	0.6	132.0 SE	0.4	38.0 NE	1.2	90.0 E	0.5	7.0 N	0.2	- -	0.5	162.0 SSE
07:00 PM - 08:00 PM	0.1	- -	0.5	193.0 SSW	0.9	183.0 S	0.3	- -	0.2	- -	0.3	110.0 ESE	1.1	278.0 W
08:00 PM - 09:00 PM	0.1	- -	0.6	21.0 NNE	0.9	133.0 SE	0.1	- -	0.5	143.0 SE	0.2	- -	0.3	- -
09:00 PM - 10:00 PM	0.2	- -	0.3	36.0 NE	0.0	- -	0.1	- -	0.1	- -	1.4	39.0 NE	0.1	- -
10:00 PM - 11:00 PM	0.2	- -	0.3	110.0 ESE	0.0	- -	0.1	- -	0.1	- -	0.3	108.0 ESE	0.0	- -
11:00 PM - 12:00 AM	0.0	- -	0.2	- -	0.4	291.0 WNW	0.1	- -	0.3	- -	0.2	- -	0.3	- -
12:00 AM - 01:00 AM	0.0	- -	0.3	- -	0.2	- -	0.2	- -	0.1	- -	0.1	- -	0.8	71.0 ENE
01:00 AM - 02:00 AM	0.1	- -	0.3	- -	0.0	- -	0.0	- -	0.4	17.0 NNE	0.1	- -	0.3	- -
02:00 AM - 03:00 AM	0.0	- -	0.2	- -	0.0	- -	0.0	- -	0.3	126.0 SE	0.2	- -	0.1	- -
03:00 AM - 04:00 AM	0.1	- -	0.2	- -	0.0	- -	0.1	- -	0.2	- -	0.0	- -	0.0	- -
04:00 AM - 05:00 AM	0.0	- -	0.3	210.0 SSW	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -
05:00 AM - 06:00 AM	0.1	- -	0.1	- -	0.0	- -	0.0	- -	0.0	- -	0.2	- -	0.0	- -
06:00 AM - 07:00 AM	0.6	112.0 ESE	0.4	52.0 NE	0.3	52.0 NE	0.0	- -	0.4	179.0 S	0.6	147.0 SSE	0.6	49.0 NE
07:00 AM - 08:00 AM	0.4	185.0 S	1.2	111.0 ESE	1.3	159.0 SSE	0.4	24.0 NNE	1.3	312.0 NW	1.3	88.0 E	1.3	49.0 NE
08:00 AM - 09:00 AM	1.6	157.0 SSE	0.4	57.0 ENE	0.6	122.0 ESE	0.4	136.0 SE	1.0	189.0 S	0.6	13.0 NNE	0.8	23.0 NNE
09:00 AM - 10:00 AM	1.4	189.0 S	0.2	- -	0.8	196.0 SSW	0.9	144.0 SE	0.6	121.0 ESE	0.3	10.0 N	1.2	343.0 NNW
10:00 AM - 11:00 AM	0.6	197.0 SSW	1.6	171.0 S	0.3	196.0 SSW	0.7	302.0 WNW	1.2	306.0 NW	0.6	22.0 NNE	0.3	53.0 NE
11:00 AM - 12:00 PM	0.2	- -	0.3	217.0 SW	0.6	159.0 SSE	1.0	219.0 SW	0.4	39.0 NE	0.4	340.0 NNW	0.6	341.0 NNW
12:00 PM - 01:00 PM	0.4	231.0 SW	0.8	169.0 S	0.8	357.0 N	1.1	190.0 S	1.7	18.0 NNE	1.3	55.0 NE	0.7	48.0 NE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112982
Date Received :May 12, 2026
Date Reported :May 18, 2026
Report Number :3473402-1

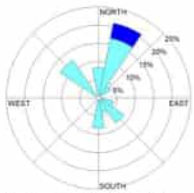
Wind Rose

Date : May 03-04, 2026

Date : May 04-05, 2026

Date : May 05-06, 2026

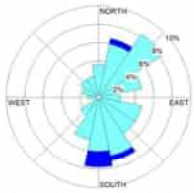
Date : May 06-07, 2026



Date : May 07-08, 2026

Date : May 08-09, 2026

Date : May 09-10, 2026



Date : May 03-10, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	2.98
0.3-1.7	61.91
Calms	35.12

Location : วัดวาลุการาม (วัดหนองผักบุ้ง) **(GPS 47P 0720392, 1613911)**

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

LABORATORY ACCREDITATION
ILA-1188
TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113221
Date Received : Mar 16, 2026
Date Reported : Mar 24, 2026
Report Number: 3474298-1

Sample Description Air Quality
Location วัดทับกวาง (GPS 47P 0721959, 1616035)
Date Analysis Commenced Mar 17, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113221-1	Mar 06 - Mar 07, 2026	755	33.1	159	74.3
25113221-2	Mar 07 - Mar 08, 2026	755	33.4	177	79.9
25113221-3	Mar 08 - Mar 09, 2026	755	32.8	152	80.4
25113221-4	Mar 09 - Mar 10, 2026	755	33.3	148	54.3
25113221-5	Mar 10 - Mar 11, 2026	755	33.1	107	44.5
25113221-6	Mar 11 - Mar 12, 2026	755	32.7	161	68.4
25113221-7	Mar 12 - Mar 13, 2026	755	33.0	143	66.0
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Teeravut Sukdee

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by Orawan R.
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113048
Date Received : Mar 16, 2026
Date Reported : Mar 19, 2026
Report Number: 3473589-1

Sample Description Air Quality
Location วัดหัมกวาง (GPS 47P 0721959, 1616035)
Parameter Nitrogen dioxide (ppb)
Measurement Date Mar 06, 2026 - Mar 13, 2026
Measurement by Teeravut Sukdee

Time	25113048-1 Mar 06, 2026	25113048-2 Mar 07, 2026	25113048-3 Mar 08, 2026	25113048-4 Mar 09, 2026	25113048-5 Mar 10, 2026	25113048-6 Mar 11, 2026	25113048-7 Mar 12, 2026
10:00 AM - 11:00 AM	13.1	13.9	12.9	9.0	10.4	9.6	23.5
11:00 AM - 12:00 PM	12.2	12.1	9.7	13.6	23.4	15.1	14.5
12:00 PM - 01:00 PM	13.4	7.5	11.3	24.4	12.9	15.5	30.7
01:00 PM - 02:00 PM	13.3	6.0	19.0	24.2	11.6	30.3	37.1
02:00 PM - 03:00 PM	10.0	7.4	47.5	19.7	21.1	45.2	49.6
03:00 PM - 04:00 PM	9.8	8.5	36.7	22.1	37.9	26.2	51.7
04:00 PM - 05:00 PM	5.8	9.1	17.2	20.9	43.2	23.0	44.1
05:00 PM - 06:00 PM	9.0	7.4	23.6	35.3	41.9	30.9	22.8
06:00 PM - 07:00 PM	16.9	6.6	30.3	26.2	24.6	38.8	31.6
07:00 PM - 08:00 PM	16.5	14.5	40.3	14.7	39.4	19.8	36.0
08:00 PM - 09:00 PM	16.9	28.5	49.9	16.7	31.0	13.4	26.8
09:00 PM - 10:00 PM	12.0	31.5	30.1	19.3	35.6	20.0	27.4
10:00 PM - 11:00 PM	8.6	36.1	33.6	24.5	16.9	17.8	24.3
11:00 PM - 12:00 AM	8.9	10.5	34.4	24.1	20.4	8.7	35.4
12:00 AM - 01:00 AM	12.8	6.6	46.6	12.8	14.3	24.6	48.0
01:00 AM - 02:00 AM	12.8	12.1	31.5	5.8	22.9	51.7	59.7
02:00 AM - 03:00 AM	15.6	16.1	14.6	11.8	9.5	38.4	44.2
03:00 AM - 04:00 AM	14.3	10.6	11.0	18.7	8.2	39.2	39.6
04:00 AM - 05:00 AM	8.2	29.8	11.0	45.7	9.2	20.1	14.7
05:00 AM - 06:00 AM	17.0	19.2	24.4	23.8	8.8	16.3	25.9
06:00 AM - 07:00 AM	23.8	16.3	34.9	12.0	12.2	27.9	48.9
07:00 AM - 08:00 AM	18.0	15.2	12.4	15.2	21.8	26.5	46.2
08:00 AM - 09:00 AM	14.3	12.7	28.6	12.5	14.4	22.5	34.3
09:00 AM - 10:00 AM	13.8	12.8	10.8	15.0	14.5	24.3	22.6
Average	13.2	14.6	25.9	19.5	21.1	25.2	35.0
1hr - Maximum	23.8	36.1	49.9	45.7	43.2	51.7	59.7
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113205
Date Received : Mar 16, 2026
Date Reported : Mar 19, 2026
Report Number: 3474239-1

Sample Description Air Quality
Location วัดหัมกวาง (GPS 47P 0721959, 1616035)
Parameter Sulfur Dioxide (ppb)
Measurement Date Mar 06, 2026 - Mar 13, 2026
Measurement by Teeravut Sukdee

Time	25113205-1 Mar 06, 2026	25113205-2 Mar 07, 2026	25113205-3 Mar 08, 2026	25113205-4 Mar 09, 2026	25113205-5 Mar 10, 2026	25113205-6 Mar 11, 2026	25113205-7 Mar 12, 2026
10:00 AM - 11:00 AM	0.6	0.3	0.6	0.5	0.2	1.0	1.3
11:00 AM - 12:00 PM	0.5	0.5	0.6	0.4	0.3	2.5	2.4
12:00 PM - 01:00 PM	0.3	0.8	0.5	0.3	0.7	1.5	2.0
01:00 PM - 02:00 PM	0.5	0.8	0.6	0.1	0.4	1.6	2.3
02:00 PM - 03:00 PM	0.7	0.7	0.7	0.4	<0.1	1.4	1.1
03:00 PM - 04:00 PM	0.3	1.1	1.3	0.3	0.3	1.8	0.2
04:00 PM - 05:00 PM	0.2	0.4	1.0	0.6	0.9	2.8	0.2
05:00 PM - 06:00 PM	0.2	0.4	0.8	1.0	0.5	0.6	0.3
06:00 PM - 07:00 PM	0.7	0.3	0.3	0.5	1.1	0.5	0.2
07:00 PM - 08:00 PM	0.5	0.3	0.2	1.7	2.6	0.2	0.2
08:00 PM - 09:00 PM	0.9	0.4	0.1	0.3	1.1	0.3	0.2
09:00 PM - 10:00 PM	0.2	0.6	0.4	0.5	0.1	0.3	0.3
10:00 PM - 11:00 PM	0.1	0.4	0.6	0.5	0.6	0.2	0.3
11:00 PM - 12:00 AM	0.2	0.5	0.4	0.2	0.4	0.7	0.2
12:00 AM - 01:00 AM	0.4	0.5	0.4	0.3	0.4	2.2	0.1
01:00 AM - 02:00 AM	0.5	0.5	0.5	0.3	0.4	2.6	0.2
02:00 AM - 03:00 AM	0.3	0.4	0.4	0.2	0.3	2.9	0.2
03:00 AM - 04:00 AM	0.3	0.4	0.5	<0.1	0.2	2.3	0.2
04:00 AM - 05:00 AM	0.8	0.5	0.5	<0.1	0.3	1.4	0.2
05:00 AM - 06:00 AM	0.7	0.4	0.3	0.2	0.2	1.0	0.2
06:00 AM - 07:00 AM	0.8	0.5	0.6	0.2	0.2	0.8	0.1
07:00 AM - 08:00 AM	0.7	0.3	0.2	0.2	0.4	0.3	0.6
08:00 AM - 09:00 AM	0.3	0.3	0.3	0.2	0.5	0.4	0.4
09:00 AM - 10:00 AM	0.4	0.5	0.5	0.2	0.5	0.4	0.4
Average	0.5	0.5	0.5	0.4	0.5	1.2	0.6
1hr - Maximum	0.9	1.1	1.3	1.7	2.6	2.9	2.4
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112984
Date Received :Mar 16, 2026
Date Reported :Mar 23, 2026
Report Number :3473403-1

Sample Number 25112984-1 to 7
Parameter Wind Speed / Wind Direction
Location วัดพันกวาง (GPS 47P 0721959, 1616035)
Sampling Date Mar 06 - Mar 13, 2026
Sampling by Teeravut Sukdee

Time	Mar 06 - Mar 07, 2026			Mar 07 - Mar 08, 2026			Mar 08 - Mar 09, 2026			Mar 09 - Mar 10, 2026			Mar 10 - Mar 11, 2026			Mar 11 - Mar 12, 2026			Mar 12 - Mar 13, 2026		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	2.5	148.0	SSE	0.7	168.0	SSE	1.4	0.0	N	0.8	176.0	S	2.7	67.0	ENE	1.8	139.0	SE	0.5	138.0	SE
11:00 AM - 12:00 PM	1.1	336.0	NNW	0.4	105.0	ESE	0.4	94.0	E	1.8	120.0	ESE	3.6	297.0	WNW	1.3	14.0	NNE	2.0	341.0	NNW
12:00 PM - 01:00 PM	0.8	222.0	SW	0.7	126.0	SE	1.1	317.0	NW	0.1	-	-	0.9	84.0	E	0.5	153.0	SSE	0.3	280.0	W
01:00 PM - 02:00 PM	2.2	359.0	N	1.9	153.0	SSE	0.6	177.0	S	1.3	87.0	E	4.1	139.0	SE	1.3	93.0	E	0.6	246.0	WSW
02:00 PM - 03:00 PM	0.3	184.0	S	1.8	306.0	NW	0.1	-	-	3.1	126.0	SE	0.6	40.0	NE	1.6	94.0	E	0.8	181.0	S
03:00 PM - 04:00 PM	1.1	279.0	W	0.3	105.0	ESE	0.6	330.0	NNW	3.0	92.0	E	0.8	123.0	ESE	0.3	284.0	WNW	2.9	117.0	ESE
04:00 PM - 05:00 PM	0.6	328.0	NNW	1.5	113.0	ESE	1.1	355.0	N	0.9	87.0	E	0.5	63.0	ENE	1.2	93.0	E	1.1	280.0	W
05:00 PM - 06:00 PM	0.3	119.0	ESE	0.2	-	-	0.4	280.0	W	0.9	94.0	E	1.0	112.0	ESE	0.4	110.0	ESE	1.2	158.0	SSE
06:00 PM - 07:00 PM	0.0	-	-	0.1	-	-	0.5	227.0	SW	0.5	97.0	E	2.2	141.0	SE	1.0	109.0	ESE	0.1	-	-
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.5	58.0	ENE	0.5	228.0	SW	0.3	109.0	ESE	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.4	71.0	ENE	0.2	-	-
09:00 PM - 10:00 PM	0.3	302.0	WNW	0.0	-	-	0.0	-	-	0.8	91.0	E	1.2	70.0	ENE	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.4	325.0	NW	0.3	133.0	SE	0.0	-	-	2.2	19.0	NNE	0.8	143.0	SE	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.3	137.0	SE	0.2	-	-	0.1	-	-	0.5	232.0	SW	0.0	-	-	0.1	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.5	136.0	SE	0.5	170.0	S	1.8	138.0	SE	0.3	89.0	E	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.4	359.0	N	0.0	-	-	2.5	63.0	ENE	1.9	143.0	SE	0.3	174.0	S	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.3	359.0	N	0.0	-	-	2.2	5.0	N	0.4	87.0	E	0.2	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.2	-	-	1.9	346.0	NNW	1.4	126.0	SE	0.2	-	-	0.5	82.0	E
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.3	310.0	NW	3.3	42.0	NE	2.0	100.0	E	0.0	-	-	0.1	-	-
05:00 AM - 06:00 AM	0.2	-	-	0.0	-	-	0.0	-	-	1.5	127.0	SE	1.6	126.0	SE	0.3	130.0	SE	0.6	355.0	N
06:00 AM - 07:00 AM	0.0	-	-	0.4	84.0	E	0.0	-	-	3.5	269.0	W	0.6	111.0	ESE	1.1	101.0	E	1.3	100.0	E
07:00 AM - 08:00 AM	0.0	-	-	0.6	156.0	SSE	0.5	108.0	ESE	6.1	95.0	E	0.8	77.0	ENE	0.2	-	-	1.7	184.0	S
08:00 AM - 09:00 AM	0.7	17.0	NNE	0.7	142.0	SE	0.8	124.0	SE	5.4	134.0	SE	0.4	136.0	SE	2.0	32.0	NNE	2.6	23.0	NNE
09:00 AM - 10:00 AM	1.4	142.0	SE	2.1	115.0	ESE	1.3	143.0	SE	3.2	96.0	E	2.9	100.0	E	1.1	315.0	NW	1.8	76.0	ENE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

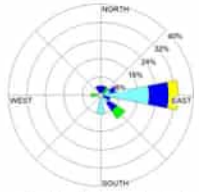
Lot ID: 25112984
Date Received :Mar 16, 2026
Date Reported :Mar 23, 2026
Report Number :3473403-1

Wind Rose

Date : Mar 06-07, 2026

Date : Mar 07-08, 2026

Date : Mar 08-09, 2026

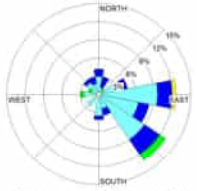


Date : Mar 09-10, 2026

Date : Mar 10-11, 2026

Date : Mar 11-12, 2026

Date : Mar 12-13, 2026



Date : Mar 06-13, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.60
3.3-5.5	2.98
1.7-3.3	15.48
0.3-1.7	49.41
Calms	31.55

Location : วัดพันกวาง (GPS 47P 0721959, 1616035)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand I PHONE +66 0 2760 3000 I FAX +66 0 2760 3197
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Life Sciences www.alsglobal.com
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113222
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3474303-1

Sample Description Air Quality
Location สถานีบำรุงพันธุ์สัตว์ (GPS 47P 0722144, 1617155)
Date Analysis Commenced Apr 11, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113222-1	Apr 02 - Apr 03, 2026	752	36.5	84.9	35.6
25113222-2	Apr 03 - Apr 04, 2026	752	36.1	94.0	37.7
25113222-3	Apr 04 - Apr 05, 2026	752	35.8	93.2	40.0
25113222-4	Apr 05 - Apr 06, 2026	752	35.9	137	60.3
25113222-5	Apr 06 - Apr 07, 2026	752	36.0	99.1	43.8
25113222-6	Apr 07 - Apr 08, 2026	752	36.2	110	47.5
25113222-7	Apr 08 - Apr 09, 2026	752	36.2	119	47.0
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Winyou Boontanai

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113058
Date Received : Apr 10, 2026
Date Reported : Apr 20, 2026
Report Number: 3473651-1

Sample Description Air Quality
Location สถานีบำรุงพันธุ์สัตว์ (GPS 47P 0722144, 1617155)
Parameter Nitrogen dioxide (ppb)
Measurement Date Apr 02, 2026 - Apr 09, 2026
Measurement by Winyou Boontanai

Time	25113058-1 Apr 02, 2026	25113058-2 Apr 03, 2026	25113058-3 Apr 04, 2026	25113058-4 Apr 05, 2026	25113058-5 Apr 06, 2026	25113058-6 Apr 07, 2026	25113058-7 Apr 08, 2026
11:00 AM - 12:00 PM	14.0	5.0	5.7	5.7	6.0	7.5	6.3
12:00 PM - 01:00 PM	4.0	6.5	6.5	8.2	10.5	14.9	8.9
01:00 PM - 02:00 PM	9.6	6.0	9.5	8.8	10.6	22.2	9.4
02:00 PM - 03:00 PM	11.0	4.9	10.5	7.8	8.8	19.5	7.5
03:00 PM - 04:00 PM	11.4	5.5	7.8	7.1	7.3	13.0	9.1
04:00 PM - 05:00 PM	9.6	5.0	7.0	7.6	6.9	14.0	8.4
05:00 PM - 06:00 PM	8.3	5.5	5.7	7.6	6.4	9.8	11.5
06:00 PM - 07:00 PM	8.8	7.0	4.9	6.4	6.1	7.8	11.8
07:00 PM - 08:00 PM	10.1	5.4	4.7	6.4	6.2	8.8	9.4
08:00 PM - 09:00 PM	9.0	4.9	4.6	5.9	6.3	8.5	6.8
09:00 PM - 10:00 PM	10.1	4.2	4.3	6.1	5.8	8.1	7.4
10:00 PM - 11:00 PM	8.6	4.6	5.0	6.1	6.3	9.2	7.3
11:00 PM - 12:00 AM	9.1	5.6	5.4	5.6	6.8	7.6	6.7
12:00 AM - 01:00 AM	8.8	5.1	5.3	5.5	7.5	6.8	7.1
01:00 AM - 02:00 AM	7.7	4.6	4.5	5.1	5.8	6.2	6.4
02:00 AM - 03:00 AM	6.7	4.1	4.0	4.7	5.1	5.3	5.1
03:00 AM - 04:00 AM	6.1	3.8	3.7	4.2	4.8	4.5	4.6
04:00 AM - 05:00 AM	6.0	4.3	3.7	4.0	4.3	4.4	16.0
05:00 AM - 06:00 AM	3.4	3.8	3.4	3.8	4.3	4.1	10.9
06:00 AM - 07:00 AM	3.0	3.8	3.2	3.6	4.2	4.1	10.3
07:00 AM - 08:00 AM	3.3	3.5	3.3	3.7	5.0	4.0	11.3
08:00 AM - 09:00 AM	3.9	3.8	3.7	3.9	5.6	4.0	14.4
09:00 AM - 10:00 AM	4.4	4.1	4.0	4.3	5.0	4.4	14.7
10:00 AM - 11:00 AM	4.5	5.0	5.1	4.9	5.2	5.5	15.3
Average	7.6	4.8	5.2	5.7	6.3	8.5	9.4
1hr - Maximum	14.0	7.0	10.5	8.8	10.6	22.2	16.0
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113206
Date Received : Apr 10, 2026
Date Reported : Apr 20, 2026
Report Number: 3474240-1

Sample Description Air Quality
Location สถานีบำรุงพันธุ์สัตว์ (GPS 47P 0722144, 1617155)
Parameter Sulfur Dioxide (ppb)
Measurement Date Apr 02, 2026 - Apr 09, 2026
Measurement by Winyou Boontanai

Time	25113206-1 Apr 02, 2026	25113206-2 Apr 03, 2026	25113206-3 Apr 04, 2026	25113206-4 Apr 05, 2026	25113206-5 Apr 06, 2026	25113206-6 Apr 07, 2026	25113206-7 Apr 08, 2026
11:00 AM - 12:00 PM	2.6	2.9	2.8	0.9	1.1	1.3	1.3
12:00 PM - 01:00 PM	2.7	2.9	2.9	0.9	1.2	1.3	1.4
01:00 PM - 02:00 PM	2.7	2.8	3.1	1.1	1.3	1.3	1.5
02:00 PM - 03:00 PM	2.8	1.9	1.1	1.2	1.5	1.4	1.4
03:00 PM - 04:00 PM	3.0	2.9	1.0	1.2	1.5	1.5	1.7
04:00 PM - 05:00 PM	3.1	3.1	1.2	1.4	1.6	1.5	1.6
05:00 PM - 06:00 PM	3.5	3.4	1.3	1.6	1.7	1.5	1.6
06:00 PM - 07:00 PM	3.4	3.5	1.5	1.6	1.7	1.6	1.7
07:00 PM - 08:00 PM	3.8	3.7	1.6	1.7	1.6	1.8	1.8
08:00 PM - 09:00 PM	3.7	3.7	1.8	1.8	1.6	1.7	2.3
09:00 PM - 10:00 PM	3.8	3.9	1.8	1.8	1.7	1.7	2.4
10:00 PM - 11:00 PM	3.9	3.4	1.9	1.7	1.6	1.8	2.8
11:00 PM - 12:00 AM	4.0	3.3	2.0	1.8	1.6	1.8	2.6
12:00 AM - 01:00 AM	4.3	3.1	2.1	1.7	1.6	1.8	2.8
01:00 AM - 02:00 AM	4.2	2.8	2.0	1.7	1.8	1.9	2.6
02:00 AM - 03:00 AM	4.4	2.7	2.7	1.8	1.8	1.9	2.6
03:00 AM - 04:00 AM	4.1	2.6	2.3	1.7	1.7	1.8	2.1
04:00 AM - 05:00 AM	3.8	2.5	1.7	1.4	1.6	1.7	1.7
05:00 AM - 06:00 AM	3.7	2.5	1.2	1.3	1.4	1.5	2.9
06:00 AM - 07:00 AM	3.6	2.5	0.7	1.1	1.3	1.4	2.4
07:00 AM - 08:00 AM	3.6	2.5	0.8	1.0	1.3	1.3	2.5
08:00 AM - 09:00 AM	3.4	2.5	0.8	1.0	1.3	1.4	2.5
09:00 AM - 10:00 AM	3.1	2.6	0.8	1.1	1.6	1.3	2.3
10:00 AM - 11:00 AM	3.0	2.8	0.9	1.2	1.4	1.2	2.4
Average	3.5	2.9	1.7	1.4	1.5	1.6	2.1
1hr - Maximum	4.4	3.9	3.1	1.8	1.8	1.9	2.9
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112985
Date Received :Apr 10, 2026
Date Reported :Apr 21, 2026
Report Number :3473404-1

Sample Number 25112985-1 to 7
Parameter Wind Speed / Wind Direction
Location สถานีบำรุงพันธุ์สัตว์ (GPS 47P 0722144, 1617155)
Sampling Date Apr 02 - Apr 09, 2026
Sampling by Winyou Boontanai

Time	Apr 02 - Apr 03, 2026			Apr 03 - Apr 04, 2026			Apr 04 - Apr 05, 2026			Apr 05 - Apr 06, 2026			Apr 06 - Apr 07, 2026			Apr 07 - Apr 08, 2026			Apr 08 - Apr 09, 2026		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	3.0	120.0	ESE	4.1	119.0	ESE	4.8	122.0	ESE	1.8	102.0	ESE	0.4	102.0	ESE	4.0	113.0	ESE	1.8	120.0	ESE
12:00 PM - 01:00 PM	1.0	96.0	E	0.7	60.0	ENE	2.5	170.0	S	1.1	81.0	E	1.1	114.0	ESE	0.7	97.0	E	2.2	173.0	S
01:00 PM - 02:00 PM	5.0	126.0	SE	1.1	92.0	E	3.2	140.0	SE	2.2	119.0	ESE	3.6	119.0	ESE	0.1	-	-	2.1	151.0	SSE
02:00 PM - 03:00 PM	1.7	144.0	SE	3.5	134.0	SE	0.7	120.0	ESE	4.6	120.0	ESE	4.6	135.0	SE	3.8	109.0	ESE	0.9	0.0	N
03:00 PM - 04:00 PM	2.3	137.0	SE	2.7	123.0	ESE	2.4	142.0	SE	2.0	132.0	SE	1.9	157.0	SSE	0.8	0.0	N	0.9	93.0	E
04:00 PM - 05:00 PM	2.7	127.0	SE	2.2	136.0	SE	3.1	127.0	SE	2.8	145.0	SE	3.2	130.0	SE	0.4	103.0	ESE	2.4	124.0	SE
05:00 PM - 06:00 PM	3.1	145.0	SE	2.0	131.0	SE	1.8	113.0	ESE	2.3	133.0	SE	3.5	142.0	SE	0.2	-	-	1.2	143.0	SE
06:00 PM - 07:00 PM	2.2	143.0	SE	1.5	166.0	SSE	1.6	162.0	SSE	0.8	185.0	S	0.7	183.0	S	0.9	195.0	SSW	1.3	145.0	SE
07:00 PM - 08:00 PM	2.7	162.0	SSE	2.2	141.0	SE	1.2	188.0	S	0.8	220.0	SW	0.6	200.0	SSW	0.1	-	-	0.6	155.0	SSE
08:00 PM - 09:00 PM	1.2	174.0	S	1.6	143.0	SE	0.0	-	-	0.5	0.0	N	1.2	166.0	SSE	0.6	199.0	SSW	3.2	161.0	SSE
09:00 PM - 10:00 PM	0.7	158.0	SSE	1.3	109.0	ESE	0.7	115.0	ESE	0.0	-	-	0.9	135.0	SE	0.5	215.0	SW	0.1	-	-
10:00 PM - 11:00 PM	1.4	147.0	SSE	2.5	144.0	SE	0.3	120.0	ESE	0.4	147.0	SSE	1.3	133.0	SE	0.6	137.0	SE	0.0	-	-
11:00 PM - 12:00 AM	1.7	128.0	SE	2.2	147.0	SSE	1.4	120.0	ESE	0.2	-	-	1.2	151.0	SSE	0.4	121.0	ESE	0.1	-	-
12:00 AM - 01:00 AM	0.0	-	-	1.1	170.0	S	1.2	151.0	SSE	0.6	154.0	SSE	3.4	151.0	SSE	2.7	140.0	SE	0.5	111.0	ESE
01:00 AM - 02:00 AM	2.0	172.0	S	1.3	172.0	S	1.7	154.0	SSE	0.2	-	-	0.1	-	-	1.3	131.0	SE	0.0	-	-
02:00 AM - 03:00 AM	1.6	160.0	SSE	0.9	144.0	SE	0.7	160.0	SSE	0.7	200.0	SSW	2.6	142.0	SE	0.7	153.0	SSE	1.0	180.0	S
03:00 AM - 04:00 AM	1.3	171.0	S	1.6	133.0	SE	0.3	187.0	S	0.5	206.0	SSW	1.0	140.0	SE	0.6	197.0	SSW	1.2	151.0	SSE
04:00 AM - 05:00 AM	0.9	202.0	SSW	1.0	168.0	SSE	2.1	124.0	SE	3.0	140.0	SE	0.5	184.0	S	0.8	222.0	SW	0.2	-	-
05:00 AM - 06:00 AM	1.0	209.0	SSW	2.0	175.0	S	0.2	-	-	3.7	144.0	SE	0.9	196.0	SSW	0.6	191.0	S	0.2	-	-
06:00 AM - 07:00 AM	1.3	162.0	SSE	0.0	-	-	0.6	135.0	SE	2.2	168.0	SSE	0.0	-	-	2.0	188.0	S	1.9	149.0	SSE
07:00 AM - 08:00 AM	2.7	145.0	SE	3.2	146.0	SE	5.4	162.0	SSE	3.7	146.0	SE	0.6	124.0	SE	4.4	157.0	SSE	4.0	141.0	SE
08:00 AM - 09:00 AM	2.6	130.0	SE	2.9	144.0	SE	4.9	143.0	SE	0.9	59.0	ENE	0.7	141.0	SE	2.7	174.0	S	2.4	143.0	SE
09:00 AM - 10:00 AM	2.9	131.0	SE	3.6	157.0	SSE	3.6	158.0	SSE	3.0	131.0	SE	2.4	142.0	SE	1.8	128.0	SE	1.0	120.0	ESE
10:00 AM - 11:00 AM	3.0	123.0	ESE	6.2	139.0	SE	2.0	128.0	SE	5.1	145.0	SE	4.1	130.0	SE	1.9	106.0	ESE	0.8	140.0	SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

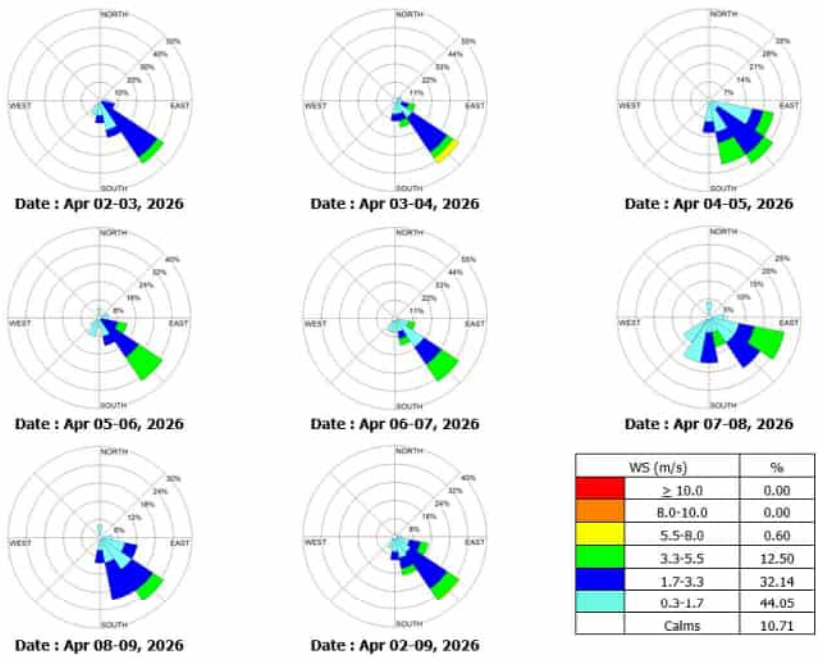
Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112985
Date Received :Apr 10, 2026
Date Reported :Apr 21, 2026
Report Number :3473404-1

Wind Rose



WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.60
3.3-5.5	12.50
1.7-3.3	32.14
0.3-1.7	44.05
Calms	10.71

Location : สถานีบำรุงพันธ์สัตว์ (GPS 47P 0722144, 1617155)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113224
Date Received : Jun 20, 2026
Date Reported : Jun 29, 2026
Report Number: 3474305-1

Sample Description Air Quality
Location สถานีไฟฟ้าแรงสูง (สระบุรี) (GPS 47P 0724357, 1616658)
Date Analysis Commenced Jun 22, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113224-1	Jun 11 - Jun 12, 2026	751	32.6	26.4	21.3
25113224-2	Jun 12 - Jun 13, 2026	751	32.4	37.5	23.0
25113224-3	Jun 13 - Jun 14, 2026	751	35.2	42.4	29.3
25113224-4	Jun 14 - Jun 15, 2026	751	35.3	44.5	24.8
25113224-5	Jun 15 - Jun 16, 2026	751	33.0	56.5	32.1
25113224-6	Jun 16 - Jun 17, 2026	751	33.0	48.0	27.1
25113224-7	Jun 17 - Jun 18, 2026	751	33.0	81.7	48.4
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Autit Aoonsim

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113059
Date Received : Jun 26, 2026
Date Reported : Jul 02, 2026
Report Number: 3473656-1

Sample Description Air Quality
Location สถานีไฟฟ้าแรงสูง (สระบุรี) (GPS 47P 0724357, 1616658)
Parameter Nitrogen dioxide (ppb)
Measurement Date Jun 19, 2026 - Jun 26, 2026
Measurement by Autit Aoonsim

Time	25113059-1 Jun 19, 2026	25113059-2 Jun 20, 2026	25113059-3 Jun 21, 2026	25113059-4 Jun 22, 2026	25113059-5 Jun 23, 2026	25113059-6 Jun 24, 2026	25113059-7 Jun 25, 2026
12:00 PM - 01:00 PM	4.3	2.4	6.4	8.9	5.6	1.4	0.6
01:00 PM - 02:00 PM	2.3	1.2	1.0	5.3	8.6	3.5	1.0
02:00 PM - 03:00 PM	6.9	0.6	0.6	3.6	16.1	1.6	1.5
03:00 PM - 04:00 PM	10.1	1.0	1.2	17.9	16.9	1.6	1.8
04:00 PM - 05:00 PM	11.0	2.1	1.9	12.5	12.2	4.0	2.3
05:00 PM - 06:00 PM	6.0	2.2	1.6	5.0	4.3	3.6	5.7
06:00 PM - 07:00 PM	4.4	1.8	3.2	5.1	3.7	6.0	5.8
07:00 PM - 08:00 PM	6.4	4.4	1.0	9.0	8.8	1.2	1.6
08:00 PM - 09:00 PM	0.7	9.1	4.8	10.4	16.9	10.3	6.2
09:00 PM - 10:00 PM	9.2	15.9	16.2	15.1	14.4	15.1	9.5
10:00 PM - 11:00 PM	16.8	29.2	10.8	13.2	5.9	10.9	5.5
11:00 PM - 12:00 AM	9.3	25.5	6.9	10.6	3.6	3.6	6.7
12:00 AM - 01:00 AM	10.6	19.9	5.3	7.2	2.5	6.6	3.4
01:00 AM - 02:00 AM	6.0	11.1	4.2	4.4	1.9	4.7	4.4
02:00 AM - 03:00 AM	3.9	4.1	4.6	3.1	3.0	2.0	4.7
03:00 AM - 04:00 AM	5.9	4.6	6.2	7.0	2.8	2.8	8.7
04:00 AM - 05:00 AM	9.6	6.0	4.6	7.4	3.0	1.7	7.8
05:00 AM - 06:00 AM	6.0	5.2	3.8	3.9	1.6	1.1	4.1
06:00 AM - 07:00 AM	7.1	3.9	3.0	2.1	0.8	0.5	0.8
07:00 AM - 08:00 AM	4.6	1.6	0.7	1.5	1.2	3.1	0.5
08:00 AM - 09:00 AM	3.4	1.1	1.2	1.4	2.2	1.6	0.5
09:00 AM - 10:00 AM	2.2	1.1	4.4	3.6	2.3	2.4	5.4
10:00 AM - 11:00 AM	2.0	1.7	9.6	4.2	4.5	2.3	1.8
11:00 AM - 12:00 PM	2.3	1.1	13.9	1.1	0.3	2.8	2.6
Average	6.3	6.5	4.9	6.8	6.0	3.9	3.9
1hr - Maximum	16.8	29.2	16.2	17.9	16.9	15.1	9.5
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113208
Date Received : Jun 26, 2026
Date Reported : Jul 02, 2026
Report Number: 3474242-1

Sample Description Air Quality
Location สถานีไฟฟ้าแรงสูง (สระบุรี) (GPS 47P 0724357, 1616658)
Parameter Sulfur Dioxide (ppb)
Measurement Date Jun 19, 2026 - Jun 26, 2026
Measurement by Autit Aoonsim

Time	25113208-1 Jun 19, 2026	25113208-2 Jun 20, 2026	25113208-3 Jun 21, 2026	25113208-4 Jun 22, 2026	25113208-5 Jun 23, 2026	25113208-6 Jun 24, 2026	25113208-7 Jun 25, 2026
12:00 PM - 01:00 PM	2.5	2.3	1.9	2.3	2.3	2.1	2.3
01:00 PM - 02:00 PM	2.4	2.3	2.2	2.2	2.2	2.1	2.3
02:00 PM - 03:00 PM	2.2	2.4	2.2	2.3	2.3	2.0	1.5
03:00 PM - 04:00 PM	2.3	2.4	2.2	2.3	2.2	2.2	2.3
04:00 PM - 05:00 PM	2.3	2.3	2.3	2.2	2.2	2.3	2.3
05:00 PM - 06:00 PM	1.5	2.3	2.3	2.3	2.3	2.3	2.4
06:00 PM - 07:00 PM	2.2	2.3	2.4	2.3	2.4	1.4	2.4
07:00 PM - 08:00 PM	2.3	2.4	2.4	2.6	2.4	2.4	2.5
08:00 PM - 09:00 PM	2.4	2.5	2.4	2.5	2.8	2.4	2.5
09:00 PM - 10:00 PM	2.4	2.2	2.6	2.6	2.6	2.5	2.6
10:00 PM - 11:00 PM	2.6	2.5	2.4	2.5	2.5	2.4	2.5
11:00 PM - 12:00 AM	2.6	2.5	2.4	2.7	2.5	2.5	2.6
12:00 AM - 01:00 AM	2.6	2.4	2.5	2.7	2.5	2.5	2.4
01:00 AM - 02:00 AM	2.6	2.4	2.4	2.4	2.4	2.5	2.7
02:00 AM - 03:00 AM	2.5	2.5	2.5	2.4	2.4	2.5	2.6
03:00 AM - 04:00 AM	2.5	2.5	2.3	2.5	2.4	2.5	2.8
04:00 AM - 05:00 AM	2.5	2.5	2.4	2.5	2.5	2.5	2.8
05:00 AM - 06:00 AM	2.4	2.5	2.5	2.4	2.5	2.5	2.5
06:00 AM - 07:00 AM	2.7	2.6	2.5	2.4	2.4	2.5	2.5
07:00 AM - 08:00 AM	2.6	2.5	2.3	2.4	2.3	2.3	2.5
08:00 AM - 09:00 AM	2.6	2.5	2.3	2.4	2.3	2.3	2.4
09:00 AM - 10:00 AM	2.5	2.4	2.3	2.4	2.2	2.3	2.8
10:00 AM - 11:00 AM	2.4	2.4	2.3	1.8	2.0	1.9	2.5
11:00 AM - 12:00 PM	2.3	2.3	2.2	2.3	2.2	2.1	2.6
Average	2.4	2.4	2.3	2.4	2.4	2.3	2.5
1hr - Maximum	2.7	2.6	2.6	2.7	2.8	2.5	2.8
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112986
Date Received :Jun 20, 2026
Date Reported :Jun 24, 2026
Report Number :3473407-1

Sample Number 25112986-1 to 7
Parameter Wind Speed / Wind Direction
Location สถานีไฟฟ้าแรงสูง (สระบุรี) (GPS 47P 0724357, 1616658)
Sampling Date Jun 11 - Jun 18, 2026
Sampling by Autit Aoonsim

Time	Jun 11 - Jun 12, 2026			Jun 12 - Jun 13, 2026			Jun 13 - Jun 14, 2026			Jun 14 - Jun 15, 2026			Jun 15 - Jun 16, 2026			Jun 16 - Jun 17, 2026			Jun 17 - Jun 18, 2026		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	2.2	181.0	S	1.6	204.0	SSW	3.9	210.0	SSW	2.9	177.0	S	3.0	216.0	SW	3.5	204.0	SSW	2.2	238.0	WSW
11:00 AM - 12:00 PM	2.2	201.0	SSW	3.9	175.0	S	2.6	223.0	SW	3.3	152.0	SSE	2.7	199.0	SSW	1.9	206.0	SSW	2.8	230.0	SW
12:00 PM - 01:00 PM	1.2	235.0	SW	1.1	190.0	S	2.2	218.0	SW	3.1	189.0	S	4.6	221.0	SW	2.5	233.0	SW	1.3	195.0	SSW
01:00 PM - 02:00 PM	3.7	171.0	S	1.5	223.0	SW	1.5	247.0	WSW	1.2	250.0	WSW	2.0	233.0	SW	0.7	210.0	SSW	2.0	279.0	W
02:00 PM - 03:00 PM	1.5	175.0	S	3.1	167.0	SSE	2.6	246.0	WSW	2.7	306.0	NW	2.9	209.0	SSW	2.1	219.0	SW	2.5	273.0	W
03:00 PM - 04:00 PM	1.3	158.0	SSE	2.0	175.0	S	2.6	298.0	WNW	0.6	234.0	SW	1.8	214.0	SW	1.3	234.0	SW	1.9	202.0	SSW
04:00 PM - 05:00 PM	2.7	216.0	SW	1.2	215.0	SW	1.0	269.0	W	1.2	233.0	SW	1.0	246.0	WSW	0.8	248.0	WSW	1.3	207.0	SSW
05:00 PM - 06:00 PM	1.1	194.0	SSW	0.7	226.0	SW	0.8	230.0	SW	0.7	180.0	S	0.4	178.0	S	1.3	189.0	S	0.2	-	-
06:00 PM - 07:00 PM	0.3	209.0	SSW	4.7	261.0	W	0.9	171.0	S	0.4	180.0	S	0.9	212.0	SSW	0.2	-	-	3.0	358.0	N
07:00 PM - 08:00 PM	0.0	-	-	0.9	208.0	SSW	0.0	-	-	3.0	209.0	SSW	2.8	179.0	S	1.5	156.0	SSE	0.7	42.0	NE
08:00 PM - 09:00 PM	0.5	42.0	NE	0.2	-	-	0.3	172.0	S	1.7	133.0	SE	0.7	193.0	SSW	0.4	218.0	SW	0.0	-	-
09:00 PM - 10:00 PM	1.2	42.0	NE	0.5	4.0	N	0.3	221.0	SW	0.2	-	-	1.6	67.0	ENE	0.1	-	-	0.6	118.0	ESE
10:00 PM - 11:00 PM	0.7	240.0	WSW	0.4	106.0	ESE	0.0	-	-	0.3	98.0	E	0.2	-	-	0.2	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.4	241.0	WSW	1.8	297.0	WNW	0.6	220.0	SW	0.6	157.0	SSE	0.8	265.0	W	0.2	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.6	251.0	WSW	0.4	206.0	SSW	0.8	183.0	S	0.4	263.0	W	0.1	-	-	0.7	98.0	E
01:00 AM - 02:00 AM	0.2	-	-	0.3	104.0	ESE	1.1	201.0	SSW	0.0	-	-	1.0	265.0	W	0.4	202.0	SSW	0.3	13.0	NNE
02:00 AM - 03:00 AM	0.0	-	-	0.1	-	-	0.4	179.0	S	0.8	217.0	SW	0.4	316.0	NW	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.1	-	-	0.2	-	-	0.5	178.0	S	0.6	247.0	WSW	0.0	-	-	0.0	-	-	0.3	348.0	NNW
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.3	248.0	WSW	0.1	-	-	0.2	-	-	0.1	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.2	-	-	2.0	170.0	S	0.8	233.0	SW	0.7	232.0	SW	0.0	-	-	0.0	-	-
06:00 AM - 07:00 AM	1.5	175.0	S	0.7	178.0	S	1.8	214.0	SW	1.1	222.0	SW	0.5	208.0	SSW	0.2	-	-	0.1	-	-
07:00 AM - 08:00 AM	2.4	162.0	S	0.8	226.0	SW	2.3	211.0	SSW	1.6	233.0	SW	1.7	171.0	S	2.9	222.0	SW	1.8	222.0	SW
08:00 AM - 09:00 AM	1.8	219.0	SW	1.7	199.0	SSW	3.9	205.0	SSW	1.9	228.0	SW	1.9	209.0	SSW	1.2	230.0	SW	1.4	224.0	SW
09:00 AM - 10:00 AM	3.1	198.0	SSW	2.0	226.0	SW	1.6	191.0	S	2.6	204.0	SSW	2.8	200.0	SSW	2.4	164.0	SSE	2.5	273.0	W

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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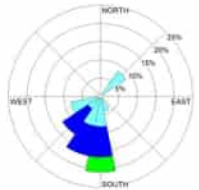
Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

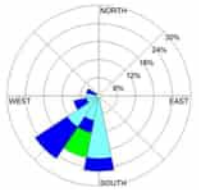
Lot ID: 25112986
Date Received :Jun 20, 2026
Date Reported :Jun 24, 2026
Report Number :3473407-1

Wind Rose

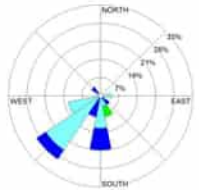


Date : Jun 11-12, 2026

Date : Jun 12-13, 2026



Date : Jun 13-14, 2026

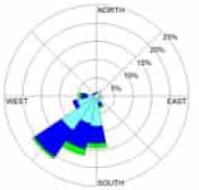


Date : Jun 14-15, 2026

Date : Jun 15-16, 2026

Date : Jun 16-17, 2026

Date : Jun 17-18, 2026



Date : Jun 11-18, 2026

	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	4.76
	1.7-3.3	27.98
	0.3-1.7	44.64
	Calms	22.62

Location : สถานีไฟฟ้าแรงสูง (สระบุรี) (GPS 47P 0724357, 1616658)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand I PHONE +66 0 2760 3000 I FAX +66 0 2760 3197
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Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2653511
Date Received :Jun 26, 2026
Date Reported :Jul 01, 2026
Report Number :3601352-1

Sample Number 2653511-1 to 7
Parameter Wind Speed / Wind Direction
Location บริเวณสถานีไฟฟ้าแรงสูง (สระบุรี) (GPS 47P 0724357, 1616658)
Sampling Date Jun 19 - Jun 26, 2026
Sampling by Autit Aoonsim

Time	Jun 19 - Jun 20, 2026		Jun 20 - Jun 21, 2026		Jun 21 - Jun 22, 2026		Jun 22 - Jun 23, 2026		Jun 23 - Jun 24, 2026		Jun 24 - Jun 25, 2026		Jun 25 - Jun 26, 2026	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
12:00 PM - 01:00 PM	0.8 200.0 SSW		2.4 239.0 WSW		1.6 239.0 WSW		2.6 289.0 WNW		3.1 222.0 SW		1.9 214.0 SW		4.0 219.0 SW	
01:00 PM - 02:00 PM	2.0 311.0 NW		3.3 194.0 SSW		1.7 236.0 SW		1.6 238.0 WSW		2.0 250.0 WSW		1.5 314.0 NW		4.7 220.0 SW	
02:00 PM - 03:00 PM	1.7 262.0 W		2.4 214.0 SW		1.7 216.0 SW		1.2 228.0 SW		2.0 270.0 W		1.7 265.0 W		2.3 282.0 WNW	
03:00 PM - 04:00 PM	1.1 239.0 WSW		2.1 222.0 SW		1.8 213.0 SSW		0.9 252.0 WSW		2.7 269.0 W		1.3 202.0 SSW		2.4 184.0 S	
04:00 PM - 05:00 PM	0.9 222.0 SW		0.5 177.0 S		1.2 200.0 SSW		0.8 235.0 SW		1.3 329.0 NNW		1.6 208.0 SSW		2.3 211.0 SSW	
05:00 PM - 06:00 PM	0.9 214.0 SW		0.2 - -		0.3 189.0 S		0.8 235.0 SW		0.4 235.0 SW		0.1 - -		2.3 207.0 SSW	
06:00 PM - 07:00 PM	1.3 238.0 WSW		0.0 - -		2.4 295.0 WNW		0.0 - -		0.3 235.0 SW		0.2 - -		3.9 299.0 WNW	
07:00 PM - 08:00 PM	2.1 233.0 SW		0.2 - -		1.1 118.0 ESE		0.0 - -		0.4 235.0 SW		0.7 210.0 SSW		1.7 221.0 SW	
08:00 PM - 09:00 PM	0.8 356.0 N		0.0 - -		0.3 129.0 SE		0.1 - -		0.6 235.0 SW		0.7 232.0 SW		1.7 127.0 SE	
09:00 PM - 10:00 PM	0.0 - -		1.1 271.0 W		0.0 - -		0.0 - -		0.0 - -		1.0 340.0 NNW		1.2 22.0 NNE	
10:00 PM - 11:00 PM	0.4 325.0 NW		1.3 270.0 W		0.0 - -		0.0 - -		0.0 - -		0.4 120.0 ESE		1.4 184.0 S	
11:00 PM - 12:00 AM	0.0 - -		0.0 - -		0.3 129.0 SE		0.0 - -		0.6 226.0 SW		1.1 205.0 SSW		0.4 158.0 SSE	
12:00 AM - 01:00 AM	0.3 271.0 W		0.0 - -		0.0 - -		0.0 - -		0.3 226.0 SW		1.3 230.0 SW		0.0 - -	
01:00 AM - 02:00 AM	0.0 - -		0.4 262.0 W		0.0 - -		0.0 - -		1.2 189.0 S		0.5 265.0 W		0.0 - -	
02:00 AM - 03:00 AM	0.0 - -		0.9 200.0 SSW		0.0 - -		0.0 - -		0.4 197.0 SSW		0.4 248.0 WSW		0.0 - -	
03:00 AM - 04:00 AM	0.0 - -		0.7 218.0 SW		0.0 - -		0.2 - -		0.0 - -		0.5 217.0 SW		0.4 146.0 SE	
04:00 AM - 05:00 AM	0.2 - -		1.0 219.0 SW		0.0 - -		0.0 - -		0.2 - -		1.1 171.0 S		0.5 294.0 WNW	
05:00 AM - 06:00 AM	0.0 - -		0.5 202.0 SSW		0.1 - -		0.0 - -		0.3 192.0 SSW		1.2 222.0 SW		0.0 - -	
06:00 AM - 07:00 AM	0.4 294.0 WNW		1.4 208.0 SSW		0.4 156.0 SSE		0.4 187.0 S		2.1 219.0 SW		1.3 223.0 SW		0.0 - -	
07:00 AM - 08:00 AM	1.2 195.0 SSW		2.0 215.0 SW		0.6 247.0 WSW		1.1 187.0 S		1.9 194.0 SSW		0.5 180.0 S		1.6 196.0 SSW	
08:00 AM - 09:00 AM	2.2 242.0 WSW		1.6 243.0 WSW		1.5 249.0 WSW		1.5 208.0 SSW		1.2 231.0 SW		1.0 214.0 SW		1.7 222.0 SW	
09:00 AM - 10:00 AM	0.9 258.0 WSW		3.6 212.0 SSW		1.3 247.0 WSW		3.8 239.0 WSW		2.1 202.0 SSW		1.2 190.0 S		0.5 180.0 S	
10:00 AM - 11:00 AM	1.4 286.0 WNW		3.7 221.0 SW		1.2 189.0 S		1.5 207.0 SSW		1.4 191.0 S		2.1 195.0 SSW		0.2 - -	
11:00 AM - 12:00 PM	1.8 234.0 SW		2.3 216.0 SW		1.2 260.0 W		1.7 237.0 WSW		2.6 225.0 SW		2.0 213.0 SSW		0.6 141.0 SE	

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

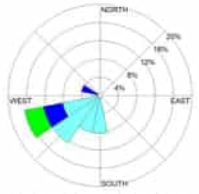
Lot ID: 2653511
Date Received :Jun 26, 2026
Date Reported :Jul 01, 2026
Report Number :3601352-1

Wind Rose

Date : Jun 19-20, 2026

Date : Jun 20-21, 2026

Date : Jun 21-22, 2026



Date : Jun 22-23, 2026

Date : Jun 23-24, 2026

Date : Jun 24-25, 2026

Date : Jun 25-26, 2026

Date : Jun 19-26, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	4.17
1.7-3.3	20.83
0.3-1.7	48.21
Calms	26.79

Location : บริเวณสถานีไฟฟ้าแรงสูง (สระบุรี) (GPS 47P 0724357, 1616658)

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Approved by
Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand I PHONE +66 0 2760 3000 I FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636223
Date Received : May 12, 2026
Date Reported : May 20, 2026
Report Number: 3575351-1

Sample Description Air Quality
Location บ้านผาเสด็จ (GPS 47P 0726598, 1619844)
Date Analysis Commenced May 14, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
2636223-8	May 03 - May 04, 2026	755	34.8	82.9	43.9
2636223-9	May 04 - May 05, 2026	755	35.1	65.4	46.6
2636223-10	May 05 - May 06, 2026	755	35.6	110	66.0
2636223-11	May 06 - May 07, 2026	755	34.8	174	49.8
2636223-12	May 07 - May 08, 2026	755	34.6	78.5	44.2
2636223-13	May 08 - May 09, 2026	755	35.4	77.1	46.6
2636223-14	May 09 - May 10, 2026	755	35.2	171	81.0
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Prommee Sripatnet

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636221
Date Received : May 12, 2026
Date Reported : May 16, 2026
Report Number: 3572433-1

Sample Description Air Quality
Location บ้านผาเสด็จ (GPS 47P 0726598, 1619844)
Parameter Nitrogen dioxide (ppb)
Measurement Date May 03, 2026 - May 10, 2026
Measurement by Prommee Sripatnet

Time	2636221-8 May 03, 2026	2636221-9 May 04, 2026	2636221-10 May 05, 2026	2636221-11 May 06, 2026	2636221-12 May 07, 2026	2636221-13 May 08, 2026	2636221-14 May 09, 2026
11:00 AM - 12:00 PM	6.9	3.8	3.3	9.9	5.3	28.3	4.5
12:00 PM - 01:00 PM	5.7	7.1	2.4	27.8	5.7	28.3	2.8
01:00 PM - 02:00 PM	5.9	4.2	2.1	47.3	5.5	19.5	2.4
02:00 PM - 03:00 PM	12.8	5.6	1.9	17.2	6.5	26.5	3.5
03:00 PM - 04:00 PM	5.0	6.7	2.1	31.0	6.1	37.9	5.5
04:00 PM - 05:00 PM	6.3	13.5	2.7	32.9	5.6	19.7	10.6
05:00 PM - 06:00 PM	14.0	5.4	2.5	35.0	6.5	5.5	8.0
06:00 PM - 07:00 PM	9.1	19.7	4.2	31.8	15.2	4.2	15.4
07:00 PM - 08:00 PM	30.8	21.8	31.8	23.1	11.0	9.7	14.0
08:00 PM - 09:00 PM	23.5	12.5	36.8	20.6	16.0	39.2	15.9
09:00 PM - 10:00 PM	13.9	13.3	34.2	18.9	16.4	42.9	19.5
10:00 PM - 11:00 PM	41.2	17.2	37.0	17.2	14.9	36.2	20.6
11:00 PM - 12:00 AM	21.2	13.5	37.2	14.0	13.5	12.5	19.1
12:00 AM - 01:00 AM	13.5	19.6	29.4	9.1	13.2	13.1	14.8
01:00 AM - 02:00 AM	14.9	22.3	25.2	8.5	8.3	14.0	10.5
02:00 AM - 03:00 AM	15.0	24.3	18.6	9.9	13.8	13.1	8.6
03:00 AM - 04:00 AM	7.9	10.5	15.3	6.2	23.8	10.0	11.2
04:00 AM - 05:00 AM	12.7	10.0	13.6	4.8	5.9	13.5	12.4
05:00 AM - 06:00 AM	11.2	29.7	12.2	6.3	4.1	16.2	11.9
06:00 AM - 07:00 AM	11.6	27.0	12.1	6.0	9.1	7.5	11.6
07:00 AM - 08:00 AM	7.9	24.0	10.9	5.9	9.9	5.1	11.5
08:00 AM - 09:00 AM	8.3	7.7	11.7	9.8	8.3	8.9	13.6
09:00 AM - 10:00 AM	11.7	8.2	22.7	15.5	13.7	15.5	24.8
10:00 AM - 11:00 AM	6.1	5.0	15.7	10.4	23.9	8.7	18.8
Average	13.2	13.9	16.1	17.5	10.9	18.2	12.1
1hr - Maximum	41.2	29.7	37.2	47.3	23.9	42.9	24.8
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636222
Date Received : May 12, 2026
Date Reported : May 16, 2026
Report Number: 3572434-1

Sample Description Air Quality
Location บ้านผาเสด็จ (GPS 47P 0726598, 1619844)
Parameter Sulfur Dioxide (ppb)
Measurement Date May 03, 2026 - May 10, 2026
Measurement by Prommee Sripatnet

Time	2636222-8 May 03, 2026	2636222-9 May 04, 2026	2636222-10 May 05, 2026	2636222-11 May 06, 2026	2636222-12 May 07, 2026	2636222-13 May 08, 2026	2636222-14 May 09, 2026
11:00 AM - 12:00 PM	2.3	2.4	2.1	2.9	2.2	3.0	2.3
12:00 PM - 01:00 PM	2.4	3.2	2.1	5.1	2.2	2.9	2.0
01:00 PM - 02:00 PM	2.4	2.4	2.1	7.2	2.2	2.6	2.0
02:00 PM - 03:00 PM	2.9	2.8	2.1	2.7	2.1	2.5	2.0
03:00 PM - 04:00 PM	2.7	2.5	2.1	2.3	2.1	3.0	2.3
04:00 PM - 05:00 PM	2.9	2.0	2.2	8.6	2.1	2.1	4.5
05:00 PM - 06:00 PM	2.2	2.0	2.2	13.0	2.4	1.9	2.2
06:00 PM - 07:00 PM	3.7	2.0	2.3	8.6	3.2	1.9	2.5
07:00 PM - 08:00 PM	4.1	2.0	8.2	3.9	2.0	1.9	2.3
08:00 PM - 09:00 PM	2.6	1.9	8.7	2.6	1.9	4.1	2.2
09:00 PM - 10:00 PM	2.1	1.9	7.2	2.5	1.9	7.0	2.1
10:00 PM - 11:00 PM	2.2	1.8	6.6	2.5	1.9	5.1	2.1
11:00 PM - 12:00 AM	2.0	1.9	6.9	2.2	2.0	2.2	2.0
12:00 AM - 01:00 AM	1.9	2.0	5.1	2.2	2.2	1.9	2.1
01:00 AM - 02:00 AM	1.9	2.0	3.2	2.2	2.0	1.9	2.0
02:00 AM - 03:00 AM	1.9	2.0	2.5	2.2	2.0	1.9	1.9
03:00 AM - 04:00 AM	2.0	1.9	2.2	2.2	2.0	1.9	2.0
04:00 AM - 05:00 AM	1.8	1.9	2.2	2.1	1.9	1.9	1.9
05:00 AM - 06:00 AM	1.8	2.0	2.2	2.2	1.9	2.0	1.9
06:00 AM - 07:00 AM	1.9	2.2	2.2	2.1	1.9	2.0	1.8
07:00 AM - 08:00 AM	1.9	2.0	2.2	2.1	1.9	2.0	1.8
08:00 AM - 09:00 AM	2.0	1.9	2.2	1.9	1.8	2.1	2.0
09:00 AM - 10:00 AM	2.3	1.9	2.9	2.0	1.9	2.3	2.2
10:00 AM - 11:00 AM	2.5	2.1	2.8	2.1	3.0	2.3	2.7
Average	2.3	2.1	3.5	3.6	2.1	2.6	2.2
1hr - Maximum	4.1	3.2	8.7	13.0	3.2	7.0	4.5
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan R.
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636220
Date Received :May 12, 2026
Date Reported :May 18, 2026
Report Number :3560086-1

Sample Number 2636220-8 to 14
Parameter Wind Speed / Wind Direction
Location บ้านผาเสด็จ (GPS 47P 0726598, 1619844)
Sampling Date May 03 - May 10, 2026
Sampling by Prommee Sripatnet

Time	May 03 - May 04, 2026			May 04 - May 05, 2026			May 05 - May 06, 2026			May 06 - May 07, 2026			May 07 - May 08, 2026			May 08 - May 09, 2026			May 09 - May 10, 2026		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	1.6	349.0	N	1.1	169.0	S	1.0	339.0	NNW	0.6	51.0	NE	1.7	176.0	S	0.5	230.0	SW	1.5	98.0	E
12:00 PM - 01:00 PM	1.4	3.0	N	0.6	220.0	SW	0.7	16.0	NNE	0.8	0.0	N	1.2	228.0	SW	0.9	198.0	SSW	1.3	105.0	ESE
01:00 PM - 02:00 PM	0.9	243.0	WSW	0.9	359.0	N	0.0	-	-	0.3	-	-	0.7	301.0	WNW	0.9	53.0	NE	1.2	87.0	E
02:00 PM - 03:00 PM	1.3	115.0	ESE	1.2	91.0	E	1.0	45.0	NE	0.6	31.0	NNE	0.7	178.0	S	0.0	-	-	1.6	279.0	W
03:00 PM - 04:00 PM	1.2	186.0	S	0.3	6.0	N	1.1	32.0	NNE	0.4	14.0	NNE	1.2	255.0	WSW	1.3	159.0	SSE	1.2	194.0	SSW
04:00 PM - 05:00 PM	0.4	156.0	SSE	0.1	-	-	0.3	80.0	E	1.6	103.0	ESE	0.6	287.0	WNW	1.3	75.0	ENE	0.6	137.0	SE
05:00 PM - 06:00 PM	0.8	39.0	NE	0.3	-	-	0.6	351.0	N	0.5	7.0	N	1.4	156.0	SSE	0.0	-	-	1.4	95.0	E
06:00 PM - 07:00 PM	0.3	0.0	N	0.1	-	-	0.4	274.0	W	0.3	356.0	N	0.4	165.0	SSE	1.1	193.0	SSW	0.3	94.0	E
07:00 PM - 08:00 PM	0.2	-	-	0.0	-	-	0.2	-	-	0.4	3.0	N	0.2	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.7	345.0	NNW	0.1	-	-	1.2	26.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.1	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.6	221.0	SW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.3	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.3	322.0	NW	0.1	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.2	-	-	0.6	214.0	SW	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.9	225.0	SW	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.4	136.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.3	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.3	250.0	WSW	0.0	-	-	0.3	6.0	N	0.0	-	-	0.4	130.0	SE	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.8	17.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	1.2	195.0	SSW	0.2	-	-	0.0	-	-	0.2	-	-	0.1	-	-	0.2	-	-
06:00 AM - 07:00 AM	0.3	264.0	W	0.0	-	-	0.3	31.0	NNE	0.3	355.0	N	0.3	345.0	NNW	0.2	-	-	0.3	222.0	SW
07:00 AM - 08:00 AM	0.6	161.0	SSE	1.9	4.0	N	0.6	120.0	ESE	0.2	-	-	0.6	207.0	SSW	0.3	155.0	SSE	0.6	115.0	ESE
08:00 AM - 09:00 AM	1.5	278.0	W	0.3	33.0	NNE	0.3	-	-	0.6	196.0	SSW	1.7	195.0	SSW	1.1	194.0	SSW	1.2	335.0	NNW
09:00 AM - 10:00 AM	0.4	313.0	NW	0.5	158.0	SSE	0.4	349.0	N	0.5	223.0	SW	0.0	-	-	1.3	63.0	ENE	0.6	286.0	WNW
10:00 AM - 11:00 AM	1.2	351.0	N	0.1	-	-	0.5	290.0	WNW	0.8	30.0	NNE	2.2	295.0	WNW	1.4	9.0	N	0.4	256.0	WSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2636220
Date Received :May 12, 2026
Date Reported :May 18, 2026
Report Number :3560086-1

Wind Rose

Date : May 03-04, 2026

Date : May 04-05, 2026

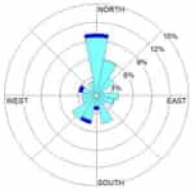
Date : May 05-06, 2026

Date : May 06-07, 2026

Date : May 07-08, 2026

Date : May 08-09, 2026

Date : May 09-10, 2026



Date : May 03-10, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	2.38
0.3-1.7	54.76
Calms	42.86

Location : บ้านผาเลดิจ (GPS 47P 0726598, 1619844)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113229
Date Received : Jun 20, 2026
Date Reported : Jun 29, 2026
Report Number: 3474315-1

Sample Description Air Quality
Location วัดกำแพง (GPS 47P 0729470, 1622879)
Date Analysis Commenced Jun 22, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113229-1	Jun 11 - Jun 12, 2026	751	33.1	91.2	37.6
25113229-2	Jun 12 - Jun 13, 2026	751	32.9	68.6	29.7
25113229-3	Jun 13 - Jun 14, 2026	751	35.2	97.4	38.6
25113229-4	Jun 14 - Jun 15, 2026	751	35.4	88.3	37.3
25113229-5	Jun 15 - Jun 16, 2026	751	33.2	168	17.8
25113229-6	Jun 16 - Jun 17, 2026	751	33.2	85.1	29.6
25113229-7	Jun 17 - Jun 18, 2026	751	33.2	85.5	39.8
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Autit Aoonsim

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113073
Date Received : Jun 20, 2026
Date Reported : Jun 25, 2026
Report Number: 3473743-1

Sample Description Air Quality
Location วัดหินลับ (GPS 47P 0729470, 1622879)
Parameter Nitrogen dioxide (ppb)
Measurement Date Jun 11, 2026 - Jun 18, 2026
Measurement by Autit Aoonsim

Time	25113073-1 Jun 11, 2026	25113073-2 Jun 12, 2026	25113073-3 Jun 13, 2026	25113073-4 Jun 14, 2026	25113073-5 Jun 15, 2026	25113073-6 Jun 16, 2026	25113073-7 Jun 17, 2026
11:00 AM - 12:00 PM	3.1	1.8	2.5	1.8	2.5	2.3	3.5
12:00 PM - 01:00 PM	22.3	2.8	1.8	2.2	1.7	34.4	1.6
01:00 PM - 02:00 PM	18.3	25.3	1.5	2.0	1.4	1.8	1.7
02:00 PM - 03:00 PM	1.5	1.5	1.9	1.5	1.6	1.7	1.6
03:00 PM - 04:00 PM	1.4	1.6	1.5	2.5	2.2	2.4	1.9
04:00 PM - 05:00 PM	1.5	1.3	1.4	2.1	1.6	1.7	1.8
05:00 PM - 06:00 PM	1.7	1.7	1.6	1.3	1.4	1.3	1.7
06:00 PM - 07:00 PM	1.6	1.2	1.5	1.5	1.2	27.2	1.4
07:00 PM - 08:00 PM	1.4	1.4	1.2	1.3	1.2	2.3	6.6
08:00 PM - 09:00 PM	2.1	1.6	1.3	1.2	1.6	1.4	35.3
09:00 PM - 10:00 PM	2.0	22.1	1.3	5.8	6.8	6.9	14.1
10:00 PM - 11:00 PM	1.4	9.7	9.6	5.7	7.0	2.2	1.6
11:00 PM - 12:00 AM	1.9	4.0	4.7	26.1	2.3	6.9	14.2
12:00 AM - 01:00 AM	28.9	1.8	9.2	29.6	12.6	2.2	19.8
01:00 AM - 02:00 AM	18.2	12.2	24.8	41.8	42.3	1.6	15.2
02:00 AM - 03:00 AM	2.6	24.4	13.7	38.6	48.0	1.5	4.2
03:00 AM - 04:00 AM	2.1	12.2	11.9	26.8	45.1	1.3	6.1
04:00 AM - 05:00 AM	5.3	2.3	2.0	18.4	24.4	1.6	4.9
05:00 AM - 06:00 AM	10.6	3.0	5.7	22.2	29.0	1.6	3.8
06:00 AM - 07:00 AM	49.5	11.6	5.2	21.7	23.4	2.6	2.4
07:00 AM - 08:00 AM	19.3	6.6	6.8	5.7	24.4	3.2	3.6
08:00 AM - 09:00 AM	8.0	3.3	6.9	9.3	1.1	2.4	4.6
09:00 AM - 10:00 AM	3.5	6.1	4.7	12.4	12.4	2.5	2.9
10:00 AM - 11:00 AM	54.1	3.3	3.1	7.1	4.3	4.5	2.3
Average	10.9	6.8	5.2	12.0	12.5	4.9	6.5
1hr - Maximum	54.1	25.3	24.8	41.8	48.0	34.4	35.3
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan R.
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113210
Date Received : Jun 20, 2026
Date Reported : Jun 25, 2026
Report Number: 3474244-1

Sample Description Air Quality
Location วัดหินลับ (GPS 47P 0729470, 1622879)
Parameter Sulfur Dioxide (ppb)
Measurement Date Jun 11, 2026 - Jun 18, 2026
Measurement by Autit Aoonsim

Time	25113210-1 Jun 11, 2026	25113210-2 Jun 12, 2026	25113210-3 Jun 13, 2026	25113210-4 Jun 14, 2026	25113210-5 Jun 15, 2026	25113210-6 Jun 16, 2026	25113210-7 Jun 17, 2026
11:00 AM - 12:00 PM	1.3	0.6	0.6	0.4	0.7	0.7	1.2
12:00 PM - 01:00 PM	1.7	0.7	0.5	0.4	0.4	0.7	1.8
01:00 PM - 02:00 PM	4.0	0.7	0.6	0.5	0.5	1.0	1.2
02:00 PM - 03:00 PM	1.8	0.6	0.6	0.5	0.3	0.6	1.1
03:00 PM - 04:00 PM	1.7	0.6	0.5	0.5	0.3	0.6	1.2
04:00 PM - 05:00 PM	1.0	0.6	0.5	0.5	0.2	0.6	1.8
05:00 PM - 06:00 PM	1.0	0.7	0.6	0.4	0.2	0.6	1.8
06:00 PM - 07:00 PM	1.0	0.6	0.5	0.5	0.2	1.2	1.3
07:00 PM - 08:00 PM	1.1	0.7	0.5	0.5	0.2	1.3	1.2
08:00 PM - 09:00 PM	1.1	0.7	0.6	0.5	0.8	1.8	1.2
09:00 PM - 10:00 PM	1.0	0.7	0.6	0.5	0.5	1.5	1.2
10:00 PM - 11:00 PM	1.0	0.7	0.6	0.5	1.6	1.6	1.1
11:00 PM - 12:00 AM	1.0	0.6	0.6	0.4	3.2	1.3	1.1
12:00 AM - 01:00 AM	1.0	0.6	0.5	0.5	1.3	1.4	1.2
01:00 AM - 02:00 AM	1.1	0.6	0.5	0.5	1.3	1.4	1.1
02:00 AM - 03:00 AM	1.0	0.6	0.5	0.6	1.5	1.3	1.1
03:00 AM - 04:00 AM	1.1	0.6	0.5	0.6	1.6	1.3	1.0
04:00 AM - 05:00 AM	1.0	0.6	0.5	0.5	0.7	1.4	2.4
05:00 AM - 06:00 AM	1.0	0.6	0.5	1.4	0.7	1.3	1.4
06:00 AM - 07:00 AM	1.0	0.5	0.4	0.8	0.7	1.3	1.5
07:00 AM - 08:00 AM	0.7	0.6	0.4	0.7	1.6	1.4	1.4
08:00 AM - 09:00 AM	0.8	0.6	0.5	0.7	2.4	1.1	1.5
09:00 AM - 10:00 AM	0.7	0.6	0.4	0.6	0.5	1.1	1.4
10:00 AM - 11:00 AM	0.8	0.6	0.4	0.6	0.5	1.1	1.5
Average	1.2	0.6	0.5	0.6	0.9	1.1	1.4
1hr - Maximum	4.0	0.7	0.6	1.4	3.2	1.8	2.4
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan R.
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112989
Date Received :Jun 20, 2026
Date Reported :Jun 24, 2026
Report Number :3473435-1

Sample Number 25112989-1 to 7
Parameter Wind Speed / Wind Direction
Location วัดหินลับ (GPS 47P 0729470, 1622879)
Sampling Date Jun 11 - Jun 18, 2026
Sampling by Autit Aoonsim

Time	Jun 11 - Jun 12, 2026			Jun 12 - Jun 13, 2026			Jun 13 - Jun 14, 2026			Jun 14 - Jun 15, 2026			Jun 15 - Jun 16, 2026			Jun 16 - Jun 17, 2026			Jun 17 - Jun 18, 2026		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.5	251.0	WSW	0.0	-	-	0.0	-	-	0.0	-	-
12:00 PM - 01:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.7	251.0	WSW	0.0	-	-	0.0	-	-	0.3	239.0	WSW
01:00 PM - 02:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.6	247.0	WSW	0.0	-	-	0.0	-	-	0.6	240.0	WSW
02:00 PM - 03:00 PM	0.0	-	-	0.0	-	-	0.8	262.0	W	0.7	236.0	SW	0.7	254.0	WSW	0.0	-	-	0.4	250.0	WSW
03:00 PM - 04:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.6	248.0	WSW
04:00 PM - 05:00 PM	0.0	-	-	0.0	-	-	0.6	267.0	W	0.4	253.0	WSW	0.0	-	-	0.3	312.0	NW	0.5	249.0	WSW
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.7	233.0	SW	0.0	-	-	0.0	-	-	0.4	249.0	WSW
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.2	-	-	0.7	242.0	WSW	0.0	-	-	0.0	-	-	0.8	250.0	WSW
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.9	237.0	WSW	0.9	209.0	SSW	1.1	246.0	WSW	0.5	246.0	WSW
08:00 PM - 09:00 PM	0.3	41.0	NE	0.5	253.0	WSW	0.4	249.0	WSW	0.6	225.0	SW	0.5	243.0	WSW	0.8	245.0	WSW	0.9	215.0	SW
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.3	216.0	SW	1.4	240.0	WSW	0.9	264.0	W	0.3	230.0	SW	0.5	266.0	W
10:00 PM - 11:00 PM	1.2	252.0	WSW	0.3	268.0	W	0.6	240.0	WSW	1.1	215.0	SW	1.0	295.0	WNW	1.1	242.0	WSW	2.1	260.0	W
11:00 PM - 12:00 AM	0.4	217.0	SW	1.1	247.0	WSW	0.9	241.0	WSW	1.3	254.0	WSW	0.9	206.0	SSW	0.6	246.0	WSW	1.3	287.0	WNW
12:00 AM - 01:00 AM	0.7	221.0	SW	0.3	249.0	WSW	0.6	254.0	WSW	0.8	228.0	SW	2.2	229.0	SW	0.3	244.0	WSW	0.9	253.0	WSW
01:00 AM - 02:00 AM	0.9	243.0	WSW	0.7	215.0	SW	0.8	237.0	WSW	0.7	206.0	SSW	0.8	218.0	SW	0.6	241.0	WSW	1.4	284.0	WNW
02:00 AM - 03:00 AM	0.5	256.0	WSW	0.6	233.0	SW	0.7	256.0	WSW	0.9	238.0	WSW	1.1	226.0	SW	0.8	238.0	WSW	0.7	280.0	W
03:00 AM - 04:00 AM	0.2	-	-	0.0	-	-	0.3	170.0	S	0.5	258.0	WSW	0.9	216.0	SW	0.7	265.0	W	0.6	116.0	ESE
04:00 AM - 05:00 AM	0.2	-	-	0.2	-	-	0.0	-	-	0.5	325.0	NW	0.8	245.0	WSW	0.9	248.0	WSW	0.3	352.0	N
05:00 AM - 06:00 AM	0.5	113.0	ESE	1.0	233.0	SW	0.4	272.0	W	0.9	265.0	W	0.9	203.0	SSW	0.7	290.0	WNW	0.3	295.0	WNW
06:00 AM - 07:00 AM	0.0	-	-	0.7	246.0	WSW	0.0	-	-	1.2	264.0	W	0.0	-	-	0.9	27.0	NNE	0.4	257.0	WSW
07:00 AM - 08:00 AM	0.0	-	-	0.6	235.0	SW	0.5	252.0	WSW	0.3	252.0	WSW	0.0	-	-	0.0	-	-	1.3	262.0	W
08:00 AM - 09:00 AM	0.0	-	-	0.3	250.0	WSW	0.5	252.0	WSW	1.4	275.0	W	1.3	239.0	WSW	0.9	220.0	SW	0.0	-	-
09:00 AM - 10:00 AM	0.3	21.0	NNE	0.0	-	-	0.0	-	-	1.1	228.0	SW	0.4	216.0	SW	0.1	-	-	0.2	-	-
10:00 AM - 11:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112989
Date Received :Jun 20, 2026
Date Reported :Jun 24, 2026
Report Number :3473435-1

Wind Rose

Date : Jun 11-12, 2026

Date : Jun 12-13, 2026

Date : Jun 13-14, 2026

Date : Jun 14-15, 2026

Date : Jun 15-16, 2026

Date : Jun 16-17, 2026

Date : Jun 17-18, 2026

Date : Jun 11-18, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	1.19
0.3-1.7	58.93
Calms	39.88

Location : วัดหินลับ (GPS 47P 0729470, 1622879)

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Approved by
Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand I PHONE +66 0 2760 3000 I FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113230
Date Received : Mar 16, 2026
Date Reported : Mar 25, 2026
Report Number: 3474317-1

Sample Description Air Quality
Location จัดซันประดู่ (GPS 47P 0731396, 1624428)
Date Analysis Commenced Mar 18, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113230-1	Mar 06 - Mar 07, 2026	749	33.1	58.3	32.1
25113230-2	Mar 07 - Mar 08, 2026	749	33.4	49.2	28.1
25113230-3	Mar 08 - Mar 09, 2026	749	32.8	60.3	36.0
25113230-4	Mar 09 - Mar 10, 2026	749	33.3	52.0	31.5
25113230-5	Mar 10 - Mar 11, 2026	749	33.1	56.3	28.2
25113230-6	Mar 11 - Mar 12, 2026	749	32.7	58.0	31.7
25113230-7	Mar 12 - Mar 13, 2026	749	33.0	69.1	37.9
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.
Sampled By : Teeravut Sukdee

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113075
Date Received : Mar 16, 2026
Date Reported : Mar 19, 2026
Report Number: 3473746-1

Sample Description Air Quality
Location จัดซันประดู่ (GPS 47P 0731396, 1624428)
Parameter Nitrogen dioxide (ppb)
Measurement Date Mar 06, 2026 - Mar 13, 2026
Measurement by Teeravut Sukdee

Time	25113075-1 Mar 06, 2026	25113075-2 Mar 07, 2026	25113075-3 Mar 08, 2026	25113075-4 Mar 09, 2026	25113075-5 Mar 10, 2026	25113075-6 Mar 11, 2026	25113075-7 Mar 12, 2026
12:00 PM - 01:00 PM	5.2	4.8	4.6	7.2	5.6	4.8	6.0
01:00 PM - 02:00 PM	4.7	4.0	4.4	5.0	5.1	4.6	6.6
02:00 PM - 03:00 PM	3.3	3.8	4.2	4.3	4.8	4.3	7.1
03:00 PM - 04:00 PM	5.4	3.5	4.3	4.2	4.6	4.0	5.4
04:00 PM - 05:00 PM	20.3	4.1	4.3	3.7	4.4	3.9	5.6
05:00 PM - 06:00 PM	11.7	11.1	4.7	3.9	4.4	3.9	12.7
06:00 PM - 07:00 PM	13.0	18.5	6.7	8.4	4.7	4.6	12.3
07:00 PM - 08:00 PM	16.6	11.5	11.4	9.5	5.7	5.3	9.7
08:00 PM - 09:00 PM	21.4	10.2	8.3	7.5	6.8	6.3	9.2
09:00 PM - 10:00 PM	24.3	11.4	9.5	6.7	6.9	9.0	8.6
10:00 PM - 11:00 PM	21.0	17.0	11.4	8.9	8.7	10.6	8.7
11:00 PM - 12:00 AM	18.5	14.5	12.2	11.7	13.5	8.6	8.9
12:00 AM - 01:00 AM	14.4	15.7	11.1	9.7	10.1	11.5	8.7
01:00 AM - 02:00 AM	10.1	15.0	12.5	10.9	8.3	13.9	9.0
02:00 AM - 03:00 AM	10.0	13.8	13.3	6.5	6.3	17.5	14.4
03:00 AM - 04:00 AM	9.2	14.6	11.9	4.5	6.6	13.6	12.7
04:00 AM - 05:00 AM	8.1	11.4	9.2	3.7	7.5	9.9	10.6
05:00 AM - 06:00 AM	8.5	9.7	9.2	3.7	5.3	9.8	6.8
06:00 AM - 07:00 AM	9.7	13.0	9.8	4.3	6.0	9.6	6.1
07:00 AM - 08:00 AM	9.1	14.3	10.1	4.4	6.0	8.8	6.2
08:00 AM - 09:00 AM	12.9	10.3	6.8	4.7	5.9	7.4	5.7
09:00 AM - 10:00 AM	8.5	5.6	5.8	4.8	5.8	6.0	5.6
10:00 AM - 11:00 AM	5.5	6.1	5.4	4.7	5.5	5.4	5.5
11:00 AM - 12:00 PM	4.9	4.6	5.4	5.1	5.1	8.0	5.3
Average	11.5	10.4	8.2	6.2	6.4	8.0	8.2
1hr - Maximum	24.3	18.5	13.3	11.7	13.5	17.5	14.4
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Approved by
Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113212
Date Received : Mar 16, 2026
Date Reported : Mar 19, 2026
Report Number: 3474245-1

Sample Description Air Quality
Location วัดชันประดู่ (GPS 47P 0731396, 1624428)
Parameter Sulfur Dioxide (ppb)
Measurement Date Mar 06, 2026 - Mar 13, 2026
Measurement by Teeravut Sukdee

Time	25113212-1 Mar 06, 2026	25113212-2 Mar 07, 2026	25113212-3 Mar 08, 2026	25113212-4 Mar 09, 2026	25113212-5 Mar 10, 2026	25113212-6 Mar 11, 2026	25113212-7 Mar 12, 2026
12:00 PM - 01:00 PM	2.0	2.1	2.2	1.4	1.6	1.7	1.7
01:00 PM - 02:00 PM	2.4	2.0	2.1	1.3	1.6	1.6	1.7
02:00 PM - 03:00 PM	2.9	1.9	2.2	1.3	1.6	1.6	1.6
03:00 PM - 04:00 PM	2.8	1.8	2.0	1.2	1.7	1.6	1.6
04:00 PM - 05:00 PM	2.5	1.8	1.8	1.2	1.5	1.6	1.5
05:00 PM - 06:00 PM	2.6	2.0	1.6	0.8	1.3	1.6	1.4
06:00 PM - 07:00 PM	2.3	1.9	1.6	0.5	1.4	1.5	1.4
07:00 PM - 08:00 PM	2.4	1.9	1.8	0.7	1.4	1.4	1.4
08:00 PM - 09:00 PM	2.4	1.9	1.6	1.0	1.2	1.4	1.3
09:00 PM - 10:00 PM	2.3	2.0	1.7	1.0	1.3	1.3	1.6
10:00 PM - 11:00 PM	2.3	2.0	1.7	1.0	1.4	1.3	1.5
11:00 PM - 12:00 AM	2.3	2.1	1.7	1.3	1.4	1.4	1.6
12:00 AM - 01:00 AM	2.3	2.1	1.8	1.1	1.3	1.4	1.5
01:00 AM - 02:00 AM	2.1	2.0	1.5	1.0	1.2	1.4	1.4
02:00 AM - 03:00 AM	2.1	2.1	1.2	1.2	1.3	1.3	1.5
03:00 AM - 04:00 AM	2.1	1.8	1.5	1.1	1.3	1.3	1.6
04:00 AM - 05:00 AM	2.1	1.8	1.6	1.0	1.3	1.3	1.6
05:00 AM - 06:00 AM	2.1	1.8	1.5	0.9	1.3	1.5	1.7
06:00 AM - 07:00 AM	2.1	1.9	1.4	1.4	1.3	1.5	1.8
07:00 AM - 08:00 AM	2.1	2.2	1.5	1.5	1.6	1.4	1.7
08:00 AM - 09:00 AM	2.3	2.4	1.7	1.6	1.6	1.6	1.7
09:00 AM - 10:00 AM	2.4	2.2	1.7	1.7	1.7	1.8	1.6
10:00 AM - 11:00 AM	2.4	2.1	2.0	1.6	1.7	1.8	1.7
11:00 AM - 12:00 PM	2.3	2.3	1.8	1.6	1.6	1.8	1.7
Average	2.3	2.0	1.7	1.2	1.4	1.5	1.6
1hr - Maximum	2.9	2.4	2.2	1.7	1.7	1.8	1.8
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112991
Date Received :Mar 16, 2026
Date Reported :Mar 23, 2026
Report Number :3473438-1

Sample Number 25112991-1 to 7
Parameter Wind Speed / Wind Direction
Location วัดชันประดู่ (GPS 47P 0731396, 1624428)
Sampling Date Mar 06 - Mar 13, 2026
Sampling by Teeravut Sukdee

Time	Mar 06 - Mar 07, 2026		Mar 07 - Mar 08, 2026		Mar 08 - Mar 09, 2026		Mar 09 - Mar 10, 2026		Mar 10 - Mar 11, 2026		Mar 11 - Mar 12, 2026		Mar 12 - Mar 13, 2026	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
12:00 PM - 01:00 PM	1.0	349.0 N	1.5	139.0 SE	0.5	126.0 SE	3.8	111.0 ESE	3.7	115.0 ESE	1.2	359.0 N	1.6	117.0 ESE
01:00 PM - 02:00 PM	1.0	117.0 ESE	1.3	53.0 NE	1.3	336.0 NNW	1.4	34.0 NE	1.0	12.0 NNE	1.0	78.0 ENE	1.1	85.0 E
02:00 PM - 03:00 PM	1.1	240.0 WSW	0.3	113.0 ESE	2.9	355.0 N	1.5	50.0 NE	1.1	74.0 ENE	0.9	10.0 N	0.9	123.0 ESE
03:00 PM - 04:00 PM	0.0	- -	0.8	129.0 SE	2.6	143.0 SE	1.2	184.0 S	1.0	142.0 SE	1.1	119.0 ESE	1.6	307.0 NW
04:00 PM - 05:00 PM	0.3	107.0 ESE	0.3	72.0 ENE	0.2	- -	1.4	188.0 S	1.9	86.0 E	1.7	119.0 ESE	0.7	78.0 ENE
05:00 PM - 06:00 PM	0.7	96.0 E	0.0	- -	0.5	68.0 ENE	0.4	98.0 E	3.6	64.0 ENE	0.5	131.0 SE	0.0	- -
06:00 PM - 07:00 PM	0.0	- -	0.0	- -	0.1	- -	0.1	- -	1.0	94.0 E	0.4	137.0 SE	0.0	- -
07:00 PM - 08:00 PM	0.0	- -	0.4	69.0 ENE	0.0	- -	0.3	120.0 ESE	0.5	99.0 E	0.5	133.0 SE	0.0	- -
08:00 PM - 09:00 PM	0.0	- -	1.5	72.0 ENE	0.5	117.0 ESE	0.1	- -	0.0	- -	0.1	- -	0.0	- -
09:00 PM - 10:00 PM	0.0	- -	0.4	76.0 ENE	0.3	92.0 E	0.3	113.0 ESE	0.4	129.0 SE	0.5	116.0 ESE	0.0	- -
10:00 PM - 11:00 PM	0.0	- -	0.4	108.0 ESE	0.2	- -	0.5	104.0 ESE	0.3	122.0 ESE	0.0	- -	0.0	- -
11:00 PM - 12:00 AM	0.0	- -	0.7	113.0 ESE	0.7	108.0 ESE	0.0	- -	0.3	108.0 ESE	0.0	- -	0.0	- -
12:00 AM - 01:00 AM	0.0	- -	0.9	115.0 ESE	0.5	114.0 ESE	0.0	- -	0.4	130.0 SE	0.6	121.0 ESE	0.0	- -
01:00 AM - 02:00 AM	0.0	- -	0.4	120.0 ESE	0.5	110.0 ESE	0.4	126.0 SE	0.6	71.0 ENE	0.2	- -	0.0	- -
02:00 AM - 03:00 AM	0.0	- -	0.1	- -	0.0	- -	1.4	64.0 ENE	0.4	104.0 ESE	0.0	- -	1.7	112.0 ESE
03:00 AM - 04:00 AM	0.0	- -	0.9	114.0 ESE	0.2	- -	0.3	128.0 SE	0.2	- -	0.0	- -	0.4	139.0 SE
04:00 AM - 05:00 AM	0.0	- -	0.0	- -	0.3	80.0 E	0.3	110.0 ESE	0.3	116.0 ESE	0.0	- -	0.0	- -
05:00 AM - 06:00 AM	0.0	- -	0.0	- -	0.2	- -	1.1	108.0 ESE	1.2	135.0 SE	0.0	- -	0.2	- -
06:00 AM - 07:00 AM	0.0	- -	0.4	121.0 ESE	0.0	- -	1.0	123.0 ESE	0.1	- -	1.2	95.0 E	0.5	42.0 NE
07:00 AM - 08:00 AM	0.2	- -	0.6	127.0 SE	0.1	- -	3.1	112.0 ESE	1.0	93.0 E	0.5	51.0 NE	0.4	105.0 ESE
08:00 AM - 09:00 AM	0.9	124.0 SE	0.9	84.0 E	3.9	110.0 ESE	2.4	98.0 E	1.5	66.0 ENE	0.5	97.0 E	1.8	89.0 E
09:00 AM - 10:00 AM	1.3	136.0 SE	1.4	173.0 S	1.8	79.0 E	5.0	105.0 ESE	2.0	119.0 ESE	0.7	120.0 ESE	3.3	47.0 NE
10:00 AM - 11:00 AM	3.8	132.0 SE	4.1	48.0 NE	1.7	80.0 E	2.0	55.0 NE	0.3	99.0 E	2.7	115.0 ESE	1.8	96.0 E
11:00 AM - 12:00 PM	1.3	145.0 SE	1.3	87.0 E	3.0	72.0 ENE	3.1	118.0 ESE	0.6	135.0 SE	1.4	0.0 N	1.6	72.0 ENE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112991
Date Received :Mar 16, 2026
Date Reported :Mar 23, 2026
Report Number :3473438-1

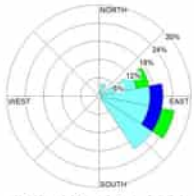
Wind Rose

Date : Mar 06-07, 2026

Date : Mar 07-08, 2026

Date : Mar 08-09, 2026

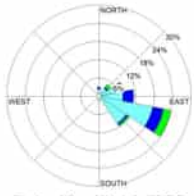
Date : Mar 09-10, 2026



Date : Mar 10-11, 2026

Date : Mar 11-12, 2026

Date : Mar 12-13, 2026



Date : Mar 06-13, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	4.76
1.7-3.3	9.52
0.3-1.7	52.98
Calms	32.74

Location : วัดขันประดู่ (GPS 47P 0731396, 1624428)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113232
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3474320-1

Sample Description Air Quality
Location วัดท่าเสา (GPS 47P 0725385, 1625968)
Date Analysis Commenced Apr 11, 2026
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Sampling Condition		Total Suspended Particulate (ug/m3)	Particulate Matter (PM-10) (ug/m3)
		Pressure (mm Hg)	Temperature (°C)		
25113232-1	Apr 02 - Apr 03, 2026	753	37.0	84.0	42.2
25113232-2	Apr 03 - Apr 04, 2026	753	36.8	87.9	44.1
25113232-3	Apr 04 - Apr 05, 2026	753	36.9	94.8	48.8
25113232-4	Apr 05 - Apr 06, 2026	753	36.2	104	59.5
25113232-5	Apr 06 - Apr 07, 2026	753	36.5	95.8	54.6
25113232-6	Apr 07 - Apr 08, 2026	753	36.5	111	62.9
25113232-7	Apr 08 - Apr 09, 2026	753	36.6	91.4	51.2
Guideline		-	-	200	100

Reference Method
Total Suspended Particulate : In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)
Particulate Metter (PM-10) : In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Guideline : Notification of the National Environmental Board., 2026 (B.E.2569) dated January 21, 2026.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113077
Date Received : Apr 10, 2026
Date Reported : Apr 20, 2026
Report Number: 3473750-1

Sample Description Air Quality
Location วัดท่าเสา (GPS 47P 0725385, 1625968)
Parameter Nitrogen dioxide (ppb)
Measurement Date Apr 02, 2026 - Apr 09, 2026
Measurement by Winyou Boontanai

Time	25113077-1 Apr 02, 2026	25113077-2 Apr 03, 2026	25113077-3 Apr 04, 2026	25113077-4 Apr 05, 2026	25113077-5 Apr 06, 2026	25113077-6 Apr 07, 2026	25113077-7 Apr 08, 2026
01:00 PM - 02:00 PM	6.8	9.6	6.4	8.8	7.8	11.0	12.0
02:00 PM - 03:00 PM	7.8	8.2	6.1	7.4	7.3	9.5	9.5
03:00 PM - 04:00 PM	6.4	4.5	4.1	4.7	5.6	5.6	5.4
04:00 PM - 05:00 PM	4.7	4.4	4.9	4.4	5.5	5.2	5.2
05:00 PM - 06:00 PM	7.3	6.3	7.1	7.2	8.1	9.6	7.9
06:00 PM - 07:00 PM	6.9	12.4	11.3	18.5	11.4	12.7	12.7
07:00 PM - 08:00 PM	13.0	12.1	25.0	17.2	12.7	14.4	29.9
08:00 PM - 09:00 PM	8.7	9.1	18.4	19.3	19.7	14.9	21.2
09:00 PM - 10:00 PM	4.1	7.3	14.9	14.8	9.2	8.0	7.6
10:00 PM - 11:00 PM	3.4	5.1	8.0	17.1	8.6	7.3	7.5
11:00 PM - 12:00 AM	6.8	6.3	7.5	16.6	17.1	9.2	16.6
12:00 AM - 01:00 AM	10.8	12.1	8.0	29.2	18.4	13.0	13.5
01:00 AM - 02:00 AM	8.0	10.1	9.9	19.8	14.3	8.4	10.7
02:00 AM - 03:00 AM	8.4	6.4	9.5	19.8	11.1	13.8	8.2
03:00 AM - 04:00 AM	4.9	3.7	5.4	11.5	8.6	8.4	7.4
04:00 AM - 05:00 AM	3.8	3.4	4.9	10.1	7.4	9.4	6.4
05:00 AM - 06:00 AM	5.5	4.7	5.4	12.2	7.8	10.6	10.0
06:00 AM - 07:00 AM	6.2	4.9	7.0	11.4	7.9	12.7	12.8
07:00 AM - 08:00 AM	4.7	4.7	7.3	7.8	7.0	8.8	10.0
08:00 AM - 09:00 AM	4.7	6.0	8.7	9.8	8.1	12.7	11.2
09:00 AM - 10:00 AM	6.5	6.8	7.4	9.2	8.6	10.8	11.3
10:00 AM - 11:00 AM	10.1	6.7	9.2	9.8	11.3	11.8	11.7
11:00 AM - 12:00 PM	11.9	8.8	14.2	12.8	16.5	12.5	9.6
12:00 PM - 01:00 PM	11.2	7.8	16.1	12.1	12.5	11.1	9.2
Average	7.2	7.1	9.4	13.0	10.5	10.5	11.1
1hr - Maximum	13.0	12.4	25.0	29.2	19.7	14.9	29.9
Standard 1hr - Average	120	120	120	120	120	120	120

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection AgencyMethod Part 50 App. F (Chemiluminescence)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25113214
Date Received : Apr 10, 2026
Date Reported : Apr 20, 2026
Report Number: 3474247-1

Sample Description Air Quality
Location วัดท่าเสา (GPS 47P 0725385, 1625968)
Parameter Sulfur Dioxide (ppb)
Measurement Date Apr 02, 2026 - Apr 09, 2026
Measurement by Winyou Boontanai

Time	25113214-1 Apr 02, 2026	25113214-2 Apr 03, 2026	25113214-3 Apr 04, 2026	25113214-4 Apr 05, 2026	25113214-5 Apr 06, 2026	25113214-6 Apr 07, 2026	25113214-7 Apr 08, 2026
01:00 PM - 02:00 PM	1.0	0.8	1.8	2.2	2.0	2.1	2.1
02:00 PM - 03:00 PM	1.0	0.8	1.8	2.3	2.1	2.1	2.0
03:00 PM - 04:00 PM	1.5	0.8	1.7	2.3	2.1	2.2	2.1
04:00 PM - 05:00 PM	1.1	1.0	1.8	2.2	2.0	2.0	2.1
05:00 PM - 06:00 PM	1.2	0.7	2.2	2.1	2.0	2.1	1.9
06:00 PM - 07:00 PM	1.2	0.8	2.3	2.4	2.0	2.0	2.0
07:00 PM - 08:00 PM	1.3	0.7	1.8	2.6	2.2	2.1	2.2
08:00 PM - 09:00 PM	1.3	0.5	1.9	2.6	2.4	2.1	2.4
09:00 PM - 10:00 PM	1.3	0.7	1.9	2.6	2.6	2.1	2.1
10:00 PM - 11:00 PM	1.1	0.5	2.1	3.0	2.4	2.1	2.2
11:00 PM - 12:00 AM	1.1	0.6	2.1	2.6	2.2	2.1	2.1
12:00 AM - 01:00 AM	1.4	0.7	2.3	2.5	2.3	2.2	2.2
01:00 AM - 02:00 AM	0.9	0.5	2.3	2.4	2.2	2.1	2.2
02:00 AM - 03:00 AM	0.9	0.6	2.1	2.4	2.3	2.1	2.2
03:00 AM - 04:00 AM	1.1	0.5	2.4	2.4	2.3	2.3	2.3
04:00 AM - 05:00 AM	1.1	0.7	2.3	2.3	2.2	2.2	2.1
05:00 AM - 06:00 AM	1.4	0.5	2.1	2.2	2.2	2.1	2.2
06:00 AM - 07:00 AM	1.4	0.6	2.4	2.3	2.2	2.2	2.2
07:00 AM - 08:00 AM	1.2	0.6	2.3	2.2	2.2	2.1	2.0
08:00 AM - 09:00 AM	1.2	0.5	2.2	2.2	2.2	2.1	2.0
09:00 AM - 10:00 AM	1.3	0.4	2.4	2.2	2.1	2.1	2.0
10:00 AM - 11:00 AM	1.1	0.7	2.5	2.1	2.1	2.1	1.9
11:00 AM - 12:00 PM	1.0	0.4	2.4	2.1	2.0	2.0	2.0
12:00 PM - 01:00 PM	1.0	1.5	2.3	2.0	2.1	2.0	1.9
Average	1.2	0.7	2.1	2.4	2.2	2.1	2.1
1hr - Maximum	1.5	1.5	2.5	3.0	2.6	2.3	2.4
Standard 1hr - Average	100	100	100	100	100	100	100
Standard 24 hrs - Average	50	50	50	50	50	50	50

Standard : Notification of the National Environment Board B.E. 2569.
Reference Method : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by
Orawan Rakyong
Scientist (3)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112994
Date Received :Apr 10, 2026
Date Reported :Apr 21, 2026
Report Number :3473455-1

Sample Number 25112994-1 to 7
Parameter Wind Speed / Wind Direction
Location วัดท่าเสา (GPS 47P 0725385, 1625968)
Sampling Date Apr 02 - Apr 09, 2026
Sampling by Winyou Boontanai

Time	Apr 02 - Apr 03, 2026			Apr 03 - Apr 04, 2026			Apr 04 - Apr 05, 2026			Apr 05 - Apr 06, 2026			Apr 06 - Apr 07, 2026			Apr 07 - Apr 08, 2026			Apr 08 - Apr 09, 2026		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
01:00 PM - 02:00 PM	5.1	267.0	W	3.3	255.0	WSW	2.7	186.0	S	1.6	291.0	WNW	4.4	268.0	W	2.9	264.0	W	3.4	235.0	SW
02:00 PM - 03:00 PM	3.5	226.0	SW	2.3	179.0	S	0.9	129.0	SE	3.8	210.0	SSW	2.6	155.0	SSE	2.5	204.0	SSW	3.6	238.0	WSW
03:00 PM - 04:00 PM	3.7	220.0	SW	3.3	214.0	SW	1.4	232.0	SW	2.6	232.0	SW	2.9	190.0	S	2.9	236.0	SW	3.4	257.0	WSW
04:00 PM - 05:00 PM	2.1	198.0	SSW	0.6	47.0	NE	1.7	277.0	W	0.6	131.0	SE	2.3	232.0	SW	1.7	246.0	WSW	1.1	216.0	SW
05:00 PM - 06:00 PM	0.9	158.0	SSE	1.0	145.0	SE	1.5	207.0	SSW	2.4	174.0	S	2.3	137.0	SE	0.3	150.0	SSE	2.6	170.0	S
06:00 PM - 07:00 PM	2.5	150.0	SSE	2.3	176.0	S	1.9	126.0	SE	0.8	48.0	NE	0.7	69.0	ENE	0.0	-	-	1.1	125.0	SE
07:00 PM - 08:00 PM	2.3	142.0	SE	0.5	151.0	SSE	0.8	80.0	E	0.4	91.0	E	0.0	-	-	0.6	52.0	NE	0.6	138.0	SE
08:00 PM - 09:00 PM	1.6	72.0	ENE	3.5	235.0	SW	0.0	-	-	0.5	121.0	ESE	0.8	171.0	S	0.2	-	-	2.6	154.0	SSE
09:00 PM - 10:00 PM	1.7	182.0	S	2.6	257.0	WSW	0.9	205.0	SSW	1.0	252.0	WSW	1.1	238.0	WSW	0.6	52.0	NE	1.9	172.0	S
10:00 PM - 11:00 PM	3.0	197.0	SSW	0.9	163.0	SSE	2.5	169.0	S	2.4	241.0	WSW	2.4	162.0	SSE	0.5	58.0	ENE	0.6	166.0	SSE
11:00 PM - 12:00 AM	0.2	-	-	4.5	215.0	SW	4.7	222.0	SW	0.4	207.0	SSW	2.5	134.0	SE	1.6	169.0	S	2.1	233.0	SW
12:00 AM - 01:00 AM	1.0	178.0	S	5.8	174.0	S	7.0	151.0	SSE	1.9	227.0	SW	2.4	217.0	SW	1.7	193.0	SSW	2.8	142.0	SE
01:00 AM - 02:00 AM	4.2	166.0	SSE	1.6	130.0	SE	1.9	157.0	SSE	2.5	207.0	SSW	3.6	147.0	SSE	1.0	153.0	SSE	1.0	173.0	S
02:00 AM - 03:00 AM	4.2	168.0	SSE	3.6	189.0	S	3.9	170.0	S	0.9	169.0	S	2.6	134.0	SE	1.4	139.0	SE	2.4	145.0	SE
03:00 AM - 04:00 AM	2.2	144.0	SE	2.0	162.0	SSE	6.1	183.0	S	2.7	147.0	SSE	1.4	164.0	SSE	1.1	185.0	S	1.6	145.0	SE
04:00 AM - 05:00 AM	2.9	137.0	SE	2.9	148.0	SSE	6.5	194.0	SSW	3.4	161.0	SSE	3.3	99.0	E	0.3	142.0	SE	0.7	146.0	SE
05:00 AM - 06:00 AM	2.8	173.0	S	2.0	182.0	S	4.0	166.0	SSE	1.3	112.0	ESE	0.8	138.0	SE	0.5	126.0	SE	2.6	139.0	SE
06:00 AM - 07:00 AM	2.7	161.0	SSE	1.4	139.0	SE	3.2	176.0	S	3.5	156.0	SSE	1.0	63.0	ENE	4.1	144.0	SE	2.4	169.0	S
07:00 AM - 08:00 AM	2.2	167.0	SSE	4.4	178.0	S	4.9	141.0	SE	6.1	170.0	S	3.8	144.0	SE	2.2	163.0	SSE	3.1	97.0	E
08:00 AM - 09:00 AM	1.0	242.0	WSW	2.7	92.0	E	3.2	142.0	SE	3.6	145.0	SE	7.6	160.0	SSE	1.9	146.0	SE	2.0	151.0	SSE
09:00 AM - 10:00 AM	2.7	81.0	E	3.5	186.0	S	4.6	155.0	SSE	4.4	133.0	SE	4.6	147.0	SSE	3.8	235.0	SW	1.4	219.0	SW
10:00 AM - 11:00 AM	2.4	257.0	WSW	3.6	153.0	SSE	2.7	227.0	SW	2.1	241.0	WSW	5.0	235.0	SW	2.1	182.0	S	3.5	201.0	SSW
11:00 AM - 12:00 PM	2.6	223.0	SW	1.8	311.0	NW	2.7	254.0	WSW	4.2	164.0	SSE	3.5	271.0	W	1.6	226.0	SW	1.9	184.0	S
12:00 PM - 01:00 PM	4.6	219.0	SW	4.0	221.0	SW	3.8	193.0	SSW	1.9	216.0	SW	2.5	232.0	SW	2.2	271.0	W	1.0	152.0	SSE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

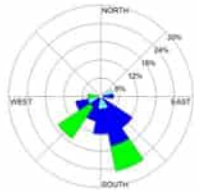
Approved by
Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

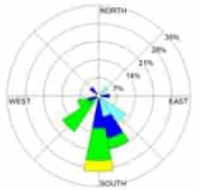
Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi
Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25112994
Date Received :Apr 10, 2026
Date Reported :Apr 21, 2026
Report Number :3473455-1

Wind Rose



Date : Apr 02-03, 2026



Date : Apr 03-04, 2026

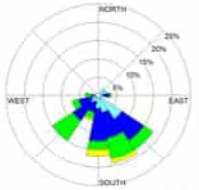
Date : Apr 04-05, 2026

Date : Apr 05-06, 2026

Date : Apr 06-07, 2026

Date : Apr 07-08, 2026

Date : Apr 08-09, 2026



Date : Apr 02-09, 2026

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	3.57
3.3-5.5	23.81
1.7-3.3	39.88
0.3-1.7	29.76
Calms	2.98

Location : วัดท่าเสา (GPS 47P 0725385, 1625968)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand I PHONE +66 0 2760 3000 I FAX +66 0 2760 3197
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Life Sciences www.alsglobal.com
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ภาคผนวก ค-2

ระดับเสียงโดยทั่วไป

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553176-1

Sample Number	25114633-1
Parameter	Noise (Leq 24 hrs.)
Location	บ้านชับบอน (GPS 47P 078132, 1619178)
Measurement Date	Apr 02 - Apr 03, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.9	68.5	56.3
12:00 PM - 01:00 PM	58.3	70.1	56.6
01:00 PM - 02:00 PM	58.0	72.5	56.0
02:00 PM - 03:00 PM	71.7	88.3	63.4
03:00 PM - 04:00 PM	73.2	86.5	65.5
04:00 PM - 05:00 PM	72.3	85.8	64.2
05:00 PM - 06:00 PM	61.3	82.2	58.3
06:00 PM - 07:00 PM	61.3	79.1	58.4
07:00 PM - 08:00 PM	58.9	80.8	56.9
08:00 PM - 09:00 PM	60.1	85.1	57.1
09:00 PM - 10:00 PM	61.1	90.1	57.2
10:00 PM - 11:00 PM	59.2	69.9	57.2
11:00 PM - 12:00 AM	59.1	70.2	57.1
12:00 AM - 01:00 AM	59.9	79.8	57.0
01:00 AM - 02:00 AM	58.3	74.2	56.1
02:00 AM - 03:00 AM	58.3	77.0	55.9
03:00 AM - 04:00 AM	58.5	77.5	56.0
04:00 AM - 05:00 AM	58.0	81.3	55.7
05:00 AM - 06:00 AM	59.9	86.2	57.0
06:00 AM - 07:00 AM	61.7	76.0	58.6
07:00 AM - 08:00 AM	64.4	82.2	60.0
08:00 AM - 09:00 AM	60.4	76.9	58.1
09:00 AM - 10:00 AM	58.8	82.9	56.4
10:00 AM - 11:00 AM	61.5	88.2	56.4
Leq Average 24 hrs. (dB(A))	64.9		
Lmax (dB(A))		90.1	
L90 (dB(A))			57.0
Ldn (dB(A))	67.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553177-1

Sample Number	25114633-2
Parameter	Noise (Leq 24 hrs.)
Location	บ้านชับบอน (GPS 47P 078132, 1619178)
Measurement Date	Apr 03 - Apr 04, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.5	71.9	55.9
12:00 PM - 01:00 PM	60.3	75.0	57.1
01:00 PM - 02:00 PM	58.9	72.7	56.8
02:00 PM - 03:00 PM	59.4	78.7	57.3
03:00 PM - 04:00 PM	59.4	74.9	57.6
04:00 PM - 05:00 PM	59.4	69.4	57.9
05:00 PM - 06:00 PM	60.0	83.4	57.9
06:00 PM - 07:00 PM	61.9	87.0	58.3
07:00 PM - 08:00 PM	60.0	80.8	57.7
08:00 PM - 09:00 PM	59.4	75.8	57.3
09:00 PM - 10:00 PM	59.7	73.7	57.8
10:00 PM - 11:00 PM	59.9	81.0	57.6
11:00 PM - 12:00 AM	59.0	74.8	57.2
12:00 AM - 01:00 AM	63.7	87.5	57.3
01:00 AM - 02:00 AM	58.4	76.9	56.4
02:00 AM - 03:00 AM	61.5	87.0	56.3
03:00 AM - 04:00 AM	58.2	75.0	56.2
04:00 AM - 05:00 AM	58.1	77.8	56.1
05:00 AM - 06:00 AM	59.7	74.7	57.1
06:00 AM - 07:00 AM	60.1	80.9	58.0
07:00 AM - 08:00 AM	60.6	74.8	58.2
08:00 AM - 09:00 AM	59.3	80.6	57.3
09:00 AM - 10:00 AM	58.9	74.3	57.0
10:00 AM - 11:00 AM	61.5	88.7	57.4
Leq Average 24 hrs. (dB(A))	60.0		
Lmax (dB(A))		88.7	
L90 (dB(A))			57.3
Ldn (dB(A))	66.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553178-1

Sample Number	25114633-3
Parameter	Noise (Leq 24 hrs.)
Location	บ้านชับบอน (GPS 47P 078132, 1619178)
Measurement Date	Apr 04 - Apr 05, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.5	76.1	56.8
12:00 PM - 01:00 PM	59.3	84.8	56.9
01:00 PM - 02:00 PM	58.5	71.5	56.9
02:00 PM - 03:00 PM	58.7	74.2	57.0
03:00 PM - 04:00 PM	59.2	73.1	57.3
04:00 PM - 05:00 PM	59.7	74.2	57.5
05:00 PM - 06:00 PM	60.9	91.1	57.6
06:00 PM - 07:00 PM	61.4	85.7	58.1
07:00 PM - 08:00 PM	59.6	82.3	57.4
08:00 PM - 09:00 PM	59.5	77.6	57.5
09:00 PM - 10:00 PM	59.6	71.7	57.6
10:00 PM - 11:00 PM	59.3	78.4	57.2
11:00 PM - 12:00 AM	58.5	69.3	56.7
12:00 AM - 01:00 AM	57.9	72.0	56.2
01:00 AM - 02:00 AM	63.0	88.0	56.1
02:00 AM - 03:00 AM	61.2	87.9	55.9
03:00 AM - 04:00 AM	57.7	74.1	55.8
04:00 AM - 05:00 AM	58.0	77.6	55.9
05:00 AM - 06:00 AM	58.6	67.4	57.0
06:00 AM - 07:00 AM	60.1	84.9	58.4
07:00 AM - 08:00 AM	60.3	74.2	58.3
08:00 AM - 09:00 AM	59.8	69.6	58.4
09:00 AM - 10:00 AM	59.7	73.5	57.7
10:00 AM - 11:00 AM	59.4	67.9	58.0
Leq Average 24 hrs. (dB(A))	59.7		
Lmax (dB(A))		91.1	
L90 (dB(A))			57.2
Ldn (dB(A))	66.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553179-1

Sample Number	25114633-4
Parameter	Noise (Leq 24 hrs.)
Location	บ้านชับบอน (GPS 47P 078132, 1619178)
Measurement Date	Apr 05 - Apr 06, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	59.6	76.5	57.9
12:00 PM - 01:00 PM	59.4	71.5	57.8
01:00 PM - 02:00 PM	59.5	80.7	57.8
02:00 PM - 03:00 PM	59.4	74.2	57.9
03:00 PM - 04:00 PM	60.1	73.0	58.3
04:00 PM - 05:00 PM	59.8	71.4	58.3
05:00 PM - 06:00 PM	61.5	75.1	58.6
06:00 PM - 07:00 PM	61.7	78.1	59.0
07:00 PM - 08:00 PM	61.2	89.5	58.8
08:00 PM - 09:00 PM	62.1	88.1	58.6
09:00 PM - 10:00 PM	60.4	73.5	58.9
10:00 PM - 11:00 PM	60.1	70.8	58.4
11:00 PM - 12:00 AM	60.9	89.7	58.5
12:00 AM - 01:00 AM	59.6	83.1	57.9
01:00 AM - 02:00 AM	59.0	69.8	57.6
02:00 AM - 03:00 AM	59.2	72.6	57.7
03:00 AM - 04:00 AM	59.1	71.1	57.5
04:00 AM - 05:00 AM	58.7	67.2	57.3
05:00 AM - 06:00 AM	59.7	71.3	58.1
06:00 AM - 07:00 AM	61.1	76.8	58.8
07:00 AM - 08:00 AM	60.3	81.7	58.4
08:00 AM - 09:00 AM	59.6	74.7	58.3
09:00 AM - 10:00 AM	59.2	74.4	57.6
10:00 AM - 11:00 AM	59.0	70.8	57.5
Leq Average 24 hrs. (dB(A))	60.1		
Lmax (dB(A))		89.7	
L90 (dB(A))			58.1
Ldn (dB(A))	66.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553180-1

Sample Number	25114633-5
Parameter	Noise (Leq 24 hrs.)
Location	บ้านชับบอน (GPS 47P 078132, 1619178)
Measurement Date	Apr 06 - Apr 07, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	59.2	81.9	57.3
12:00 PM - 01:00 PM	59.6	73.1	58.0
01:00 PM - 02:00 PM	59.8	78.6	58.3
02:00 PM - 03:00 PM	59.4	76.7	57.9
03:00 PM - 04:00 PM	59.4	72.6	58.0
04:00 PM - 05:00 PM	59.7	75.7	58.1
05:00 PM - 06:00 PM	59.9	71.6	58.3
06:00 PM - 07:00 PM	60.4	75.2	58.8
07:00 PM - 08:00 PM	60.5	78.4	58.8
08:00 PM - 09:00 PM	60.6	85.5	58.7
09:00 PM - 10:00 PM	64.1	85.7	58.4
10:00 PM - 11:00 PM	62.2	84.4	58.1
11:00 PM - 12:00 AM	60.6	87.6	57.8
12:00 AM - 01:00 AM	61.0	85.8	57.7
01:00 AM - 02:00 AM	59.0	71.9	57.4
02:00 AM - 03:00 AM	59.6	83.6	57.5
03:00 AM - 04:00 AM	62.0	87.7	57.4
04:00 AM - 05:00 AM	60.4	86.9	57.8
05:00 AM - 06:00 AM	59.9	75.3	58.0
06:00 AM - 07:00 AM	60.3	77.6	58.9
07:00 AM - 08:00 AM	60.9	78.7	58.6
08:00 AM - 09:00 AM	60.0	76.0	58.0
09:00 AM - 10:00 AM	58.9	76.4	57.1
10:00 AM - 11:00 AM	61.3	89.5	56.8
Leq Average 24 hrs. (dB(A))	60.5		
Lmax (dB(A))		89.5	
L90 (dB(A))			58.0
Ldn (dB(A))	67.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553181-1

Sample Number	25114633-6
Parameter	Noise (Leq 24 hrs.)
Location	บ้านชับบอน (GPS 47P 078132, 1619178)
Measurement Date	Apr 07 - Apr 08, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	59.0	71.9	57.2
12:00 PM - 01:00 PM	59.1	84.1	57.1
01:00 PM - 02:00 PM	58.6	79.3	57.1
02:00 PM - 03:00 PM	59.3	84.6	57.0
03:00 PM - 04:00 PM	59.3	69.9	57.7
04:00 PM - 05:00 PM	59.5	71.7	57.8
05:00 PM - 06:00 PM	60.0	70.9	58.2
06:00 PM - 07:00 PM	60.2	78.5	58.0
07:00 PM - 08:00 PM	62.4	88.7	57.7
08:00 PM - 09:00 PM	63.7	87.4	57.9
09:00 PM - 10:00 PM	60.1	84.2	58.1
10:00 PM - 11:00 PM	60.1	78.3	57.9
11:00 PM - 12:00 AM	59.4	72.6	57.4
12:00 AM - 01:00 AM	59.0	76.2	57.0
01:00 AM - 02:00 AM	59.3	85.9	56.6
02:00 AM - 03:00 AM	61.3	88.2	56.2
03:00 AM - 04:00 AM	58.3	76.9	56.4
04:00 AM - 05:00 AM	58.2	67.9	56.3
05:00 AM - 06:00 AM	60.9	87.7	57.2
06:00 AM - 07:00 AM	60.6	89.8	58.2
07:00 AM - 08:00 AM	59.9	75.2	58.1
08:00 AM - 09:00 AM	58.7	73.9	56.9
09:00 AM - 10:00 AM	60.1	82.5	57.1
10:00 AM - 11:00 AM	59.0	75.2	56.9
Leq Average 24 hrs. (dB(A))	60.0		
Lmax (dB(A))		89.8	
L90 (dB(A))			57.2
Ldn (dB(A))	66.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company
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S:\Reports_Air Noise.rpt (1:48PM)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553182-1

Sample Number	25114633-7
Parameter	Noise (Leq 24 hrs.)
Location	บ้านชับบอน (GPS 47P 078132, 1619178)
Measurement Date	Apr 08 - Apr 09, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	59.1	79.9	56.6
12:00 PM - 01:00 PM	61.9	77.6	58.1
01:00 PM - 02:00 PM	58.5	72.6	56.5
02:00 PM - 03:00 PM	58.4	72.0	56.5
03:00 PM - 04:00 PM	58.4	68.6	56.8
04:00 PM - 05:00 PM	59.8	81.5	57.2
05:00 PM - 06:00 PM	60.3	78.5	58.0
06:00 PM - 07:00 PM	60.0	75.7	58.0
07:00 PM - 08:00 PM	60.7	82.2	57.3
08:00 PM - 09:00 PM	61.1	83.0	57.4
09:00 PM - 10:00 PM	59.1	79.2	57.2
10:00 PM - 11:00 PM	59.2	76.4	57.3
11:00 PM - 12:00 AM	59.5	77.5	57.3
12:00 AM - 01:00 AM	58.7	73.5	57.0
01:00 AM - 02:00 AM	58.6	73.2	56.5
02:00 AM - 03:00 AM	58.6	72.2	56.4
03:00 AM - 04:00 AM	61.2	95.9	56.5
04:00 AM - 05:00 AM	58.6	71.5	56.6
05:00 AM - 06:00 AM	59.2	70.5	57.2
06:00 AM - 07:00 AM	60.2	73.3	58.3
07:00 AM - 08:00 AM	60.1	76.5	58.1
08:00 AM - 09:00 AM	59.2	76.7	57.4
09:00 AM - 10:00 AM	58.6	76.1	56.6
10:00 AM - 11:00 AM	58.2	72.7	56.4
Leq Average 24 hrs. (dB(A))	59.6		
Lmax (dB(A))		95.9	
L90 (dB(A))			57.2
Ldn (dB(A))	65.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553183-1

Sample Number	25114633-8
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date	Apr 02 - Apr 03, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	46.8	68.4	44.7
12:00 PM - 01:00 PM	48.1	63.8	44.9
01:00 PM - 02:00 PM	46.9	58.6	45.0
02:00 PM - 03:00 PM	50.4	72.1	45.4
03:00 PM - 04:00 PM	50.3	67.3	47.0
04:00 PM - 05:00 PM	50.2	60.5	48.3
05:00 PM - 06:00 PM	52.5	86.8	48.8
06:00 PM - 07:00 PM	51.2	71.4	48.8
07:00 PM - 08:00 PM	50.9	68.5	48.4
08:00 PM - 09:00 PM	50.3	68.3	48.8
09:00 PM - 10:00 PM	53.1	60.5	50.2
10:00 PM - 11:00 PM	58.6	71.5	56.2
11:00 PM - 12:00 AM	58.9	65.4	56.7
12:00 AM - 01:00 AM	56.6	63.0	54.0
01:00 AM - 02:00 AM	53.1	67.5	48.3
02:00 AM - 03:00 AM	49.7	60.8	45.9
03:00 AM - 04:00 AM	48.4	63.7	46.0
04:00 AM - 05:00 AM	51.0	72.5	46.5
05:00 AM - 06:00 AM	50.3	72.3	47.7
06:00 AM - 07:00 AM	50.3	78.4	47.6
07:00 AM - 08:00 AM	51.0	71.5	48.1
08:00 AM - 09:00 AM	50.8	69.0	48.8
09:00 AM - 10:00 AM	49.9	72.2	47.7
10:00 AM - 11:00 AM	48.3	61.7	46.5
Leq Average 24 hrs. (dB(A))	52.5		
Lmax (dB(A))		86.8	
L90 (dB(A))			47.7
Ldn (dB(A))	60.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Life Sciences www.alsglobal.com
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2995-71/ EMAIL
S:\Reports_Air Noise.rpt (1:49PM)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553184-1

Sample Number	25114633-9
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนอนุบาลหับกวาง (GPS 47P 0722981, 1616404)
Measurement Date	Apr 03 - Apr 04, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	47.2	66.2	44.9
12:00 PM - 01:00 PM	49.8	83.3	44.9
01:00 PM - 02:00 PM	46.9	58.0	45.1
02:00 PM - 03:00 PM	48.6	70.8	45.3
03:00 PM - 04:00 PM	49.1	65.8	46.8
04:00 PM - 05:00 PM	50.2	70.1	48.0
05:00 PM - 06:00 PM	52.3	70.8	49.4
06:00 PM - 07:00 PM	51.3	67.7	49.1
07:00 PM - 08:00 PM	49.9	62.0	48.5
08:00 PM - 09:00 PM	48.5	64.3	47.3
09:00 PM - 10:00 PM	49.5	66.7	47.5
10:00 PM - 11:00 PM	50.7	70.8	47.9
11:00 PM - 12:00 AM	49.6	66.4	47.6
12:00 AM - 01:00 AM	48.6	55.9	47.1
01:00 AM - 02:00 AM	47.9	64.5	46.1
02:00 AM - 03:00 AM	50.6	72.4	46.0
03:00 AM - 04:00 AM	47.4	57.4	45.9
04:00 AM - 05:00 AM	48.2	59.9	46.4
05:00 AM - 06:00 AM	50.8	71.3	47.8
06:00 AM - 07:00 AM	50.0	67.3	47.7
07:00 AM - 08:00 AM	51.1	62.6	49.1
08:00 AM - 09:00 AM	52.1	67.3	50.0
09:00 AM - 10:00 AM	51.6	70.0	49.0
10:00 AM - 11:00 AM	50.3	68.8	48.0
Leq Average 24 hrs. (dB(A))	49.9		
Lmax (dB(A))		83.3	
L90 (dB(A))			47.5
Ldn (dB(A))	56.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553185-1

Sample Number	25114633-10
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนอนุบาลหับกวาง (GPS 47P 0722981, 1616404)
Measurement Date	Apr 04 - Apr 05, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.1	67.5	47.1
12:00 PM - 01:00 PM	49.1	70.9	47.0
01:00 PM - 02:00 PM	49.0	72.1	45.9
02:00 PM - 03:00 PM	49.9	71.1	46.1
03:00 PM - 04:00 PM	49.9	68.1	46.6
04:00 PM - 05:00 PM	50.0	71.0	47.9
05:00 PM - 06:00 PM	49.8	68.2	48.2
06:00 PM - 07:00 PM	52.4	87.3	47.9
07:00 PM - 08:00 PM	48.3	58.9	47.0
08:00 PM - 09:00 PM	47.6	60.9	46.3
09:00 PM - 10:00 PM	46.3	55.0	45.2
10:00 PM - 11:00 PM	48.1	66.8	46.0
11:00 PM - 12:00 AM	48.3	66.4	46.0
12:00 AM - 01:00 AM	47.8	61.7	46.1
01:00 AM - 02:00 AM	50.3	76.5	46.4
02:00 AM - 03:00 AM	48.5	62.8	46.5
03:00 AM - 04:00 AM	47.1	67.0	45.7
04:00 AM - 05:00 AM	48.5	61.1	45.8
05:00 AM - 06:00 AM	49.3	68.0	45.3
06:00 AM - 07:00 AM	48.4	69.8	45.6
07:00 AM - 08:00 AM	48.9	65.0	46.1
08:00 AM - 09:00 AM	51.0	68.8	48.5
09:00 AM - 10:00 AM	51.2	70.5	48.3
10:00 AM - 11:00 AM	50.7	64.9	47.9
Leq Average 24 hrs. (dB(A))	49.4		
Lmax (dB(A))		87.3	
L90 (dB(A))			46.3
Ldn (dB(A))	55.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553186-1

Sample Number	25114633-11
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนอนุบาลหับกวาง (GPS 47P 0722981, 1616404)
Measurement Date	Apr 05 - Apr 06, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.3	73.2	47.4
12:00 PM - 01:00 PM	48.5	68.1	46.3
01:00 PM - 02:00 PM	49.4	68.2	47.4
02:00 PM - 03:00 PM	50.9	69.1	48.2
03:00 PM - 04:00 PM	50.3	66.1	47.9
04:00 PM - 05:00 PM	49.2	60.6	47.6
05:00 PM - 06:00 PM	50.1	65.4	48.4
06:00 PM - 07:00 PM	51.1	69.8	49.2
07:00 PM - 08:00 PM	48.8	62.1	47.7
08:00 PM - 09:00 PM	48.7	66.8	47.3
09:00 PM - 10:00 PM	48.4	58.6	47.3
10:00 PM - 11:00 PM	50.1	68.7	47.8
11:00 PM - 12:00 AM	49.0	68.1	46.6
12:00 AM - 01:00 AM	47.4	55.2	46.2
01:00 AM - 02:00 AM	48.3	66.6	46.3
02:00 AM - 03:00 AM	47.9	65.1	46.0
03:00 AM - 04:00 AM	48.8	69.3	46.0
04:00 AM - 05:00 AM	49.1	63.6	46.5
05:00 AM - 06:00 AM	50.2	64.4	47.4
06:00 AM - 07:00 AM	50.6	73.1	48.0
07:00 AM - 08:00 AM	51.0	67.7	49.1
08:00 AM - 09:00 AM	51.5	69.9	49.4
09:00 AM - 10:00 AM	51.7	67.2	49.0
10:00 AM - 11:00 AM	50.2	67.9	48.2
Leq Average 24 hrs. (dB(A))	49.8		
Lmax (dB(A))		73.2	
L90 (dB(A))			47.4
Ldn (dB(A))	55.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553187-1

Sample Number	25114633-12
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนอนุบาลหับกวาง (GPS 47P 0722981, 1616404)
Measurement Date	Apr 06 - Apr 07, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.3	72.8	46.6
12:00 PM - 01:00 PM	48.9	65.1	46.1
01:00 PM - 02:00 PM	48.2	63.9	45.8
02:00 PM - 03:00 PM	49.2	71.3	45.9
03:00 PM - 04:00 PM	49.7	70.5	46.9
04:00 PM - 05:00 PM	49.0	64.9	47.2
05:00 PM - 06:00 PM	49.7	66.1	48.1
06:00 PM - 07:00 PM	53.5	74.6	50.9
07:00 PM - 08:00 PM	50.1	72.9	48.2
08:00 PM - 09:00 PM	53.5	80.1	49.8
09:00 PM - 10:00 PM	50.9	65.9	48.9
10:00 PM - 11:00 PM	48.7	59.6	47.2
11:00 PM - 12:00 AM	50.4	64.8	47.7
12:00 AM - 01:00 AM	47.6	58.3	46.4
01:00 AM - 02:00 AM	48.0	65.0	46.0
02:00 AM - 03:00 AM	47.8	61.3	46.0
03:00 AM - 04:00 AM	47.9	59.2	46.3
04:00 AM - 05:00 AM	50.3	71.4	46.6
05:00 AM - 06:00 AM	50.4	66.4	47.7
06:00 AM - 07:00 AM	49.0	64.9	47.1
07:00 AM - 08:00 AM	50.2	67.2	47.9
08:00 AM - 09:00 AM	50.4	63.3	48.4
09:00 AM - 10:00 AM	50.2	65.5	48.0
10:00 AM - 11:00 AM	50.1	68.1	47.2
Leq Average 24 hrs. (dB(A))	50.0		
Lmax (dB(A))		80.1	
L90 (dB(A))			47.2
Ldn (dB(A))	55.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553188-1

Sample Number	25114633-13
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนอนุบาลหับกวาง (GPS 47P 0722981, 1616404)
Measurement Date	Apr 07 - Apr 08, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	48.0	65.7	46.1
12:00 PM - 01:00 PM	47.3	65.5	45.5
01:00 PM - 02:00 PM	46.6	64.3	44.4
02:00 PM - 03:00 PM	48.4	68.8	44.2
03:00 PM - 04:00 PM	49.2	70.7	44.9
04:00 PM - 05:00 PM	48.6	71.2	45.1
05:00 PM - 06:00 PM	47.5	67.1	45.6
06:00 PM - 07:00 PM	49.9	64.0	47.1
07:00 PM - 08:00 PM	50.0	59.8	48.5
08:00 PM - 09:00 PM	51.4	68.9	49.6
09:00 PM - 10:00 PM	52.9	79.6	49.9
10:00 PM - 11:00 PM	52.6	67.1	50.2
11:00 PM - 12:00 AM	52.8	67.9	49.5
12:00 AM - 01:00 AM	54.2	59.7	51.3
01:00 AM - 02:00 AM	52.3	65.6	48.5
02:00 AM - 03:00 AM	48.4	62.1	45.7
03:00 AM - 04:00 AM	45.9	57.6	44.5
04:00 AM - 05:00 AM	47.4	60.9	45.3
05:00 AM - 06:00 AM	51.0	71.1	47.5
06:00 AM - 07:00 AM	49.0	69.1	46.2
07:00 AM - 08:00 AM	49.1	69.9	46.9
08:00 AM - 09:00 AM	52.3	69.9	48.1
09:00 AM - 10:00 AM	50.3	66.9	47.5
10:00 AM - 11:00 AM	49.3	66.4	46.4
Leq Average 24 hrs. (dB(A))	50.3		
Lmax (dB(A))		79.6	
L90 (dB(A))			46.4
Ldn (dB(A))	57.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553189-1

Sample Number	25114633-14
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนอนุบาลหับกวาง (GPS 47P 0722981, 1616404)
Measurement Date	Apr 08 - Apr 09, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	47.6	65.7	45.4
12:00 PM - 01:00 PM	48.3	62.9	45.6
01:00 PM - 02:00 PM	47.3	62.8	45.1
02:00 PM - 03:00 PM	49.7	70.8	45.5
03:00 PM - 04:00 PM	48.2	73.0	45.1
04:00 PM - 05:00 PM	48.8	68.2	46.4
05:00 PM - 06:00 PM	49.9	68.3	48.0
06:00 PM - 07:00 PM	51.3	63.2	49.0
07:00 PM - 08:00 PM	48.9	66.8	47.5
08:00 PM - 09:00 PM	50.3	68.7	48.6
09:00 PM - 10:00 PM	53.9	74.4	49.6
10:00 PM - 11:00 PM	60.1	68.1	57.6
11:00 PM - 12:00 AM	61.8	67.5	60.2
12:00 AM - 01:00 AM	60.9	65.5	59.2
01:00 AM - 02:00 AM	58.7	67.6	55.9
02:00 AM - 03:00 AM	53.1	61.0	49.7
03:00 AM - 04:00 AM	50.5	71.8	48.1
04:00 AM - 05:00 AM	51.3	73.6	47.4
05:00 AM - 06:00 AM	52.6	73.0	46.6
06:00 AM - 07:00 AM	49.7	74.4	48.0
07:00 AM - 08:00 AM	50.3	72.7	48.0
08:00 AM - 09:00 AM	50.6	68.7	48.7
09:00 AM - 10:00 AM	48.8	58.6	47.0
10:00 AM - 11:00 AM	48.5	63.9	46.2
Leq Average 24 hrs. (dB(A))	54.4		
Lmax (dB(A))		74.4	
L90 (dB(A))			48.0
Ldn (dB(A))	63.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Life Sciences www.alsglobal.com
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2995-71/ EMAIL
S:\Reports_Air Noise.rpt (1:51PM)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553190-1

Sample Number	25114633-15
Parameter	Noise (Leq 24 hrs.)
Location	บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date	Apr 02 - Apr 03, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 658239

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.8	84.1	38.4
12:00 PM - 01:00 PM	48.9	75.4	37.7
01:00 PM - 02:00 PM	48.8	71.8	37.8
02:00 PM - 03:00 PM	48.6	66.2	38.1
03:00 PM - 04:00 PM	57.9	82.7	37.4
04:00 PM - 05:00 PM	47.1	64.8	38.1
05:00 PM - 06:00 PM	46.6	68.4	38.2
06:00 PM - 07:00 PM	48.7	76.2	40.5
07:00 PM - 08:00 PM	48.9	57.7	41.8
08:00 PM - 09:00 PM	44.4	65.3	39.7
09:00 PM - 10:00 PM	57.6	85.6	37.5
10:00 PM - 11:00 PM	40.1	65.6	37.3
11:00 PM - 12:00 AM	39.6	58.6	37.3
12:00 AM - 01:00 AM	42.6	76.8	36.3
01:00 AM - 02:00 AM	39.3	62.7	35.6
02:00 AM - 03:00 AM	39.4	62.7	36.4
03:00 AM - 04:00 AM	61.5	90.6	38.4
04:00 AM - 05:00 AM	47.8	69.7	37.8
05:00 AM - 06:00 AM	54.1	71.2	41.7
06:00 AM - 07:00 AM	53.1	78.4	42.8
07:00 AM - 08:00 AM	51.5	70.2	42.8
08:00 AM - 09:00 AM	60.9	94.8	40.6
09:00 AM - 10:00 AM	49.9	75.9	39.8
10:00 AM - 11:00 AM	47.3	68.5	39.5
Leq Average 24 hrs. (dB(A))	53.5		
Lmax (dB(A))		94.8	
L90 (dB(A))			38.1
Ldn (dB(A))	59.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553191-1

Sample Number	25114633-16
Parameter	Noise (Leq 24 hrs.)
Location	บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date	Apr 03 - Apr 04, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 658239

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	47.0	74.8	38.2
12:00 PM - 01:00 PM	53.5	85.1	38.8
01:00 PM - 02:00 PM	47.6	68.7	38.8
02:00 PM - 03:00 PM	47.6	72.7	38.9
03:00 PM - 04:00 PM	54.9	81.9	36.9
04:00 PM - 05:00 PM	46.0	74.7	37.5
05:00 PM - 06:00 PM	48.8	84.2	38.6
06:00 PM - 07:00 PM	47.3	71.7	41.5
07:00 PM - 08:00 PM	49.4	75.6	43.9
08:00 PM - 09:00 PM	46.6	60.1	39.5
09:00 PM - 10:00 PM	41.8	56.1	38.4
10:00 PM - 11:00 PM	41.8	55.2	38.6
11:00 PM - 12:00 AM	41.6	54.2	38.5
12:00 AM - 01:00 AM	41.2	55.7	39.5
01:00 AM - 02:00 AM	41.6	53.9	39.3
02:00 AM - 03:00 AM	43.1	58.0	38.4
03:00 AM - 04:00 AM	44.7	73.3	37.0
04:00 AM - 05:00 AM	47.6	71.0	37.7
05:00 AM - 06:00 AM	53.9	72.0	41.7
06:00 AM - 07:00 AM	54.9	77.0	43.5
07:00 AM - 08:00 AM	53.6	77.1	44.5
08:00 AM - 09:00 AM	59.1	84.7	43.0
09:00 AM - 10:00 AM	53.6	81.9	42.7
10:00 AM - 11:00 AM	50.6	76.7	41.9
Leq Average 24 hrs. (dB(A))	51.1		
Lmax (dB(A))		85.1	
L90 (dB(A))			38.8
Ldn (dB(A))	56.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553192-1

Sample Number	25114633-17
Parameter	Noise (Leq 24 hrs.)
Location	บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date	Apr 04 - Apr 05, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 658239

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.5	87.2	41.1
12:00 PM - 01:00 PM	50.4	75.7	40.7
01:00 PM - 02:00 PM	47.8	68.9	39.6
02:00 PM - 03:00 PM	59.6	87.3	38.6
03:00 PM - 04:00 PM	46.0	67.9	38.1
04:00 PM - 05:00 PM	47.2	73.0	38.2
05:00 PM - 06:00 PM	48.2	67.4	38.9
06:00 PM - 07:00 PM	47.5	69.5	42.3
07:00 PM - 08:00 PM	45.0	66.9	43.2
08:00 PM - 09:00 PM	44.7	60.1	42.4
09:00 PM - 10:00 PM	41.0	57.2	38.6
10:00 PM - 11:00 PM	40.2	51.5	37.7
11:00 PM - 12:00 AM	48.9	77.8	37.6
12:00 AM - 01:00 AM	51.6	78.6	37.3
01:00 AM - 02:00 AM	39.8	51.5	37.9
02:00 AM - 03:00 AM	44.0	72.8	38.5
03:00 AM - 04:00 AM	41.5	64.4	38.0
04:00 AM - 05:00 AM	49.2	72.7	38.6
05:00 AM - 06:00 AM	53.8	74.5	41.6
06:00 AM - 07:00 AM	54.6	79.7	44.9
07:00 AM - 08:00 AM	51.7	75.2	43.1
08:00 AM - 09:00 AM	62.6	91.3	42.7
09:00 AM - 10:00 AM	49.8	71.1	41.0
10:00 AM - 11:00 AM	49.3	74.9	40.7
Leq Average 24 hrs. (dB(A))	53.1		
Lmax (dB(A))		91.3	
L90 (dB(A))			38.9
Ldn (dB(A))	57.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553193-1

Sample Number	25114633-18
Parameter	Noise (Leq 24 hrs.)
Location	บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date	Apr 05 - Apr 06, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 658239

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	48.8	66.6	40.2
12:00 PM - 01:00 PM	46.7	69.2	39.5
01:00 PM - 02:00 PM	47.3	68.7	40.0
02:00 PM - 03:00 PM	49.3	69.9	40.5
03:00 PM - 04:00 PM	60.1	87.1	39.8
04:00 PM - 05:00 PM	45.6	64.1	38.5
05:00 PM - 06:00 PM	44.8	64.3	38.1
06:00 PM - 07:00 PM	47.7	69.3	42.3
07:00 PM - 08:00 PM	44.4	56.6	42.9
08:00 PM - 09:00 PM	43.0	54.0	41.2
09:00 PM - 10:00 PM	41.8	66.1	39.4
10:00 PM - 11:00 PM	40.0	69.7	36.9
11:00 PM - 12:00 AM	58.9	91.1	35.9
12:00 AM - 01:00 AM	38.7	55.5	36.3
01:00 AM - 02:00 AM	46.5	74.5	35.9
02:00 AM - 03:00 AM	38.7	63.1	36.6
03:00 AM - 04:00 AM	43.0	67.6	37.4
04:00 AM - 05:00 AM	60.1	91.9	38.8
05:00 AM - 06:00 AM	53.3	73.1	43.4
06:00 AM - 07:00 AM	51.5	73.4	45.9
07:00 AM - 08:00 AM	58.9	88.9	44.9
08:00 AM - 09:00 AM	59.8	90.0	44.0
09:00 AM - 10:00 AM	54.1	78.3	42.6
10:00 AM - 11:00 AM	49.0	66.7	41.9
Leq Average 24 hrs. (dB(A))	53.8		
Lmax (dB(A))		91.9	
L90 (dB(A))			39.8
Ldn (dB(A))	60.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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2995-71/ EMAIL S:\Reports_Air Noise.rpt (1:52PM)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553194-1

Sample Number	25114633-19
Parameter	Noise (Leq 24 hrs.)
Location	บ้านผาเสลิง (GPS 47P 0726620, 1619809)
Measurement Date	Apr 06 - Apr 07, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 658239

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.7	72.8	41.1
12:00 PM - 01:00 PM	49.3	73.0	40.4
01:00 PM - 02:00 PM	47.7	68.5	40.1
02:00 PM - 03:00 PM	53.3	82.4	38.6
03:00 PM - 04:00 PM	48.0	69.0	38.5
04:00 PM - 05:00 PM	53.2	85.9	38.7
05:00 PM - 06:00 PM	46.5	70.3	38.3
06:00 PM - 07:00 PM	48.5	76.1	41.7
07:00 PM - 08:00 PM	44.3	58.9	42.3
08:00 PM - 09:00 PM	41.8	52.0	39.9
09:00 PM - 10:00 PM	41.6	58.7	39.2
10:00 PM - 11:00 PM	40.0	53.6	37.7
11:00 PM - 12:00 AM	42.0	50.6	38.8
12:00 AM - 01:00 AM	49.5	78.0	39.9
01:00 AM - 02:00 AM	43.4	74.4	38.5
02:00 AM - 03:00 AM	43.0	69.2	38.9
03:00 AM - 04:00 AM	41.8	65.5	38.4
04:00 AM - 05:00 AM	49.1	70.8	39.1
05:00 AM - 06:00 AM	53.9	70.7	44.0
06:00 AM - 07:00 AM	53.6	74.6	45.4
07:00 AM - 08:00 AM	55.0	71.1	43.8
08:00 AM - 09:00 AM	55.9	85.9	43.2
09:00 AM - 10:00 AM	51.6	77.9	42.5
10:00 AM - 11:00 AM	51.6	71.9	40.9
Leq Average 24 hrs. (dB(A))	50.4		
Lmax (dB(A))		85.9	
L90 (dB(A))			39.9
Ldn (dB(A))	55.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553195-1

Sample Number	25114633-20
Parameter	Noise (Leq 24 hrs.)
Location	บ้านผาเสลิง (GPS 47P 0726620, 1619809)
Measurement Date	Apr 07 - Apr 08, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 658239

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.4	69.7	40.2
12:00 PM - 01:00 PM	48.2	70.1	38.8
01:00 PM - 02:00 PM	47.2	70.2	39.1
02:00 PM - 03:00 PM	47.1	72.7	38.0
03:00 PM - 04:00 PM	57.4	82.7	37.6
04:00 PM - 05:00 PM	46.3	63.5	37.3
05:00 PM - 06:00 PM	45.6	70.3	35.5
06:00 PM - 07:00 PM	48.0	70.3	43.2
07:00 PM - 08:00 PM	46.0	59.5	44.1
08:00 PM - 09:00 PM	43.2	55.5	40.4
09:00 PM - 10:00 PM	40.9	48.9	39.3
10:00 PM - 11:00 PM	39.8	62.9	37.9
11:00 PM - 12:00 AM	42.9	75.9	37.0
12:00 AM - 01:00 AM	38.9	48.9	37.0
01:00 AM - 02:00 AM	38.0	51.7	36.1
02:00 AM - 03:00 AM	37.7	49.4	36.1
03:00 AM - 04:00 AM	42.8	73.3	36.0
04:00 AM - 05:00 AM	47.3	70.1	37.5
05:00 AM - 06:00 AM	54.1	71.4	42.1
06:00 AM - 07:00 AM	55.7	79.1	45.1
07:00 AM - 08:00 AM	51.8	71.0	43.1
08:00 AM - 09:00 AM	55.5	78.5	42.4
09:00 AM - 10:00 AM	49.4	77.8	42.3
10:00 AM - 11:00 AM	48.5	73.7	41.1
Leq Average 24 hrs. (dB(A))	50.1		
Lmax (dB(A))		82.7	
L90 (dB(A))			38.8
Ldn (dB(A))	55.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553196-1

Sample Number	25114633-21
Parameter	Noise (Leq 24 hrs.)
Location	บ้านผาเสลิจ (GPS 47P 0726620, 1619809)
Measurement Date	Apr 08 - Apr 09, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 658239

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	47.3	73.0	40.2
12:00 PM - 01:00 PM	47.5	73.1	40.5
01:00 PM - 02:00 PM	47.7	72.5	39.8
02:00 PM - 03:00 PM	47.0	67.8	38.0
03:00 PM - 04:00 PM	46.2	71.7	37.9
04:00 PM - 05:00 PM	52.1	84.2	36.6
05:00 PM - 06:00 PM	49.1	77.6	37.6
06:00 PM - 07:00 PM	49.5	80.6	43.0
07:00 PM - 08:00 PM	46.3	68.8	43.4
08:00 PM - 09:00 PM	43.7	59.4	40.1
09:00 PM - 10:00 PM	40.8	52.6	39.0
10:00 PM - 11:00 PM	40.9	56.8	38.5
11:00 PM - 12:00 AM	39.9	59.7	36.9
12:00 AM - 01:00 AM	42.1	61.7	36.8
01:00 AM - 02:00 AM	39.9	67.9	35.9
02:00 AM - 03:00 AM	44.4	73.0	36.1
03:00 AM - 04:00 AM	40.3	62.0	36.2
04:00 AM - 05:00 AM	48.9	69.9	35.9
05:00 AM - 06:00 AM	54.3	70.9	44.2
06:00 AM - 07:00 AM	52.5	72.0	45.5
07:00 AM - 08:00 AM	55.2	85.0	43.9
08:00 AM - 09:00 AM	63.0	93.8	43.4
09:00 AM - 10:00 AM	49.9	72.5	42.0
10:00 AM - 11:00 AM	52.9	77.0	42.0
Leq Average 24 hrs. (dB(A))	52.1		
Lmax (dB(A))		93.8	
L90 (dB(A))			39.0
Ldn (dB(A))	56.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553197-1

Sample Number	25114633-22
Parameter	Noise (Leq 24 hrs.)
Location	ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date	Apr 02 - Apr 03, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	62.9	83.2	60.3
12:00 PM - 01:00 PM	60.7	80.1	58.2
01:00 PM - 02:00 PM	61.2	76.2	58.4
02:00 PM - 03:00 PM	61.9	81.4	59.5
03:00 PM - 04:00 PM	63.5	85.9	58.8
04:00 PM - 05:00 PM	60.8	74.4	58.7
05:00 PM - 06:00 PM	61.8	83.0	59.7
06:00 PM - 07:00 PM	62.5	81.6	60.3
07:00 PM - 08:00 PM	61.4	82.4	59.1
08:00 PM - 09:00 PM	63.3	84.0	60.6
09:00 PM - 10:00 PM	62.3	81.2	59.9
10:00 PM - 11:00 PM	61.5	80.9	59.0
11:00 PM - 12:00 AM	60.4	80.1	57.3
12:00 AM - 01:00 AM	60.8	78.8	57.6
01:00 AM - 02:00 AM	62.0	83.4	58.8
02:00 AM - 03:00 AM	61.1	79.7	58.3
03:00 AM - 04:00 AM	60.7	77.3	57.9
04:00 AM - 05:00 AM	61.2	81.7	58.0
05:00 AM - 06:00 AM	61.7	80.2	59.0
06:00 AM - 07:00 AM	62.2	78.0	59.3
07:00 AM - 08:00 AM	61.8	77.0	59.7
08:00 AM - 09:00 AM	61.0	74.5	58.7
09:00 AM - 10:00 AM	61.6	78.8	59.7
10:00 AM - 11:00 AM	61.2	76.0	59.3
Leq Average 24 hrs. (dB(A))	61.7		
Lmax (dB(A))		85.9	
L90 (dB(A))			59.0
Ldn (dB(A))	67.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553198-1

Sample Number	25114633-23
Parameter	Noise (Leq 24 hrs.)
Location	รับรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date	Apr 03 - Apr 04, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.8	80.3	59.4
12:00 PM - 01:00 PM	62.0	91.9	59.3
01:00 PM - 02:00 PM	61.3	78.0	59.6
02:00 PM - 03:00 PM	61.4	82.2	59.5
03:00 PM - 04:00 PM	61.1	76.6	59.3
04:00 PM - 05:00 PM	62.1	85.6	59.2
05:00 PM - 06:00 PM	63.0	90.2	59.7
06:00 PM - 07:00 PM	64.5	83.4	60.5
07:00 PM - 08:00 PM	62.8	84.7	59.1
08:00 PM - 09:00 PM	63.0	86.6	59.1
09:00 PM - 10:00 PM	62.3	80.8	59.5
10:00 PM - 11:00 PM	61.9	82.6	59.1
11:00 PM - 12:00 AM	60.1	70.2	58.0
12:00 AM - 01:00 AM	62.5	88.0	57.7
01:00 AM - 02:00 AM	62.8	84.7	58.2
02:00 AM - 03:00 AM	62.6	85.4	58.2
03:00 AM - 04:00 AM	60.9	84.4	57.7
04:00 AM - 05:00 AM	60.7	78.8	58.5
05:00 AM - 06:00 AM	61.0	74.4	58.8
06:00 AM - 07:00 AM	61.5	74.9	59.5
07:00 AM - 08:00 AM	61.9	77.4	59.6
08:00 AM - 09:00 AM	62.6	80.6	60.0
09:00 AM - 10:00 AM	62.8	88.2	60.4
10:00 AM - 11:00 AM	63.3	83.3	60.5
Leq Average 24 hrs. (dB(A))	62.2		
Lmax (dB(A))		91.9	
L90 (dB(A))			59.3
Ldn (dB(A))	68.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553199-1

Sample Number	25114633-24
Parameter	Noise (Leq 24 hrs.)
Location	รับรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date	Apr 04 - Apr 05, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	62.8	82.2	60.1
12:00 PM - 01:00 PM	62.8	81.9	60.0
01:00 PM - 02:00 PM	62.4	83.4	59.8
02:00 PM - 03:00 PM	62.7	87.2	59.5
03:00 PM - 04:00 PM	62.1	90.0	59.4
04:00 PM - 05:00 PM	61.3	80.2	58.8
05:00 PM - 06:00 PM	61.5	83.0	59.3
06:00 PM - 07:00 PM	62.3	84.3	60.0
07:00 PM - 08:00 PM	62.5	86.8	59.1
08:00 PM - 09:00 PM	61.5	81.8	58.5
09:00 PM - 10:00 PM	61.7	79.3	58.9
10:00 PM - 11:00 PM	61.0	80.3	58.2
11:00 PM - 12:00 AM	60.0	82.7	57.6
12:00 AM - 01:00 AM	61.3	81.6	57.9
01:00 AM - 02:00 AM	61.8	83.5	58.1
02:00 AM - 03:00 AM	61.5	84.7	57.9
03:00 AM - 04:00 AM	61.9	83.7	58.1
04:00 AM - 05:00 AM	61.7	84.2	58.3
05:00 AM - 06:00 AM	60.4	78.2	57.8
06:00 AM - 07:00 AM	61.0	79.5	58.4
07:00 AM - 08:00 AM	61.0	84.5	58.7
08:00 AM - 09:00 AM	61.5	81.2	58.9
09:00 AM - 10:00 AM	63.0	82.2	59.7
10:00 AM - 11:00 AM	64.2	88.6	59.7
Leq Average 24 hrs. (dB(A))	61.9		
Lmax (dB(A))		90.0	
L90 (dB(A))			58.8
Ldn (dB(A))	67.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Life Sciences www.alsglobal.com
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2995-71/ EMAIL S:\Reports_Air Noise.rpt (1:55PM)

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553200-1

Sample Number	25114633-25
Parameter	Noise (Leq 24 hrs.)
Location	รับรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date	Apr 05 - Apr 06, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	62.6	86.3	59.8
12:00 PM - 01:00 PM	62.4	84.0	59.2
01:00 PM - 02:00 PM	62.6	83.4	59.7
02:00 PM - 03:00 PM	61.8	81.4	59.3
03:00 PM - 04:00 PM	60.6	77.8	58.5
04:00 PM - 05:00 PM	61.7	84.8	58.9
05:00 PM - 06:00 PM	62.5	83.6	59.3
06:00 PM - 07:00 PM	62.2	82.5	59.4
07:00 PM - 08:00 PM	60.9	80.7	58.0
08:00 PM - 09:00 PM	61.2	78.3	58.8
09:00 PM - 10:00 PM	60.2	76.6	58.1
10:00 PM - 11:00 PM	60.8	77.7	58.2
11:00 PM - 12:00 AM	58.9	82.7	56.2
12:00 AM - 01:00 AM	58.2	72.0	55.8
01:00 AM - 02:00 AM	58.9	76.5	56.6
02:00 AM - 03:00 AM	58.3	70.7	56.4
03:00 AM - 04:00 AM	58.8	76.0	56.5
04:00 AM - 05:00 AM	58.0	74.0	56.1
05:00 AM - 06:00 AM	59.7	76.9	57.4
06:00 AM - 07:00 AM	61.1	75.3	58.6
07:00 AM - 08:00 AM	61.3	78.5	59.0
08:00 AM - 09:00 AM	61.9	83.0	58.6
09:00 AM - 10:00 AM	63.1	81.8	60.0
10:00 AM - 11:00 AM	62.3	83.6	59.2
Leq Average 24 hrs. (dB(A))	61.1		
Lmax (dB(A))		86.3	
L90 (dB(A))			58.6
Ldn (dB(A))	66.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553201-1

Sample Number	25114633-26
Parameter	Noise (Leq 24 hrs.)
Location	รับรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date	Apr 06 - Apr 07, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.7	81.1	58.8
12:00 PM - 01:00 PM	61.1	80.1	58.6
01:00 PM - 02:00 PM	61.5	85.4	58.8
02:00 PM - 03:00 PM	60.9	86.1	58.4
03:00 PM - 04:00 PM	61.3	82.1	58.5
04:00 PM - 05:00 PM	61.5	81.4	58.4
05:00 PM - 06:00 PM	61.2	81.8	58.7
06:00 PM - 07:00 PM	61.6	90.1	59.1
07:00 PM - 08:00 PM	60.7	83.8	57.8
08:00 PM - 09:00 PM	61.6	87.7	58.8
09:00 PM - 10:00 PM	60.6	81.6	57.6
10:00 PM - 11:00 PM	60.8	84.0	57.5
11:00 PM - 12:00 AM	59.2	79.4	56.5
12:00 AM - 01:00 AM	59.3	77.9	56.2
01:00 AM - 02:00 AM	59.2	77.8	56.8
02:00 AM - 03:00 AM	59.6	71.9	57.8
03:00 AM - 04:00 AM	59.4	80.4	56.9
04:00 AM - 05:00 AM	59.7	85.6	57.1
05:00 AM - 06:00 AM	60.5	76.6	58.0
06:00 AM - 07:00 AM	61.4	75.4	59.2
07:00 AM - 08:00 AM	60.9	80.9	58.4
08:00 AM - 09:00 AM	60.7	78.9	58.1
09:00 AM - 10:00 AM	62.0	78.3	59.6
10:00 AM - 11:00 AM	61.7	80.5	59.4
Leq Average 24 hrs. (dB(A))	60.8		
Lmax (dB(A))		90.1	
L90 (dB(A))			58.4
Ldn (dB(A))	66.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553202-1

Sample Number	25114633-27
Parameter	Noise (Leq 24 hrs.)
Location	รับรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date	Apr 07 - Apr 08, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.7	81.0	58.8
12:00 PM - 01:00 PM	62.3	85.2	58.9
01:00 PM - 02:00 PM	61.8	80.3	58.9
02:00 PM - 03:00 PM	62.4	86.6	59.4
03:00 PM - 04:00 PM	61.5	80.9	59.1
04:00 PM - 05:00 PM	61.3	86.9	58.3
05:00 PM - 06:00 PM	62.7	84.0	59.2
06:00 PM - 07:00 PM	62.5	81.5	59.8
07:00 PM - 08:00 PM	63.2	82.2	59.9
08:00 PM - 09:00 PM	63.4	86.4	60.0
09:00 PM - 10:00 PM	63.0	81.1	60.1
10:00 PM - 11:00 PM	61.4	79.5	58.8
11:00 PM - 12:00 AM	60.4	76.2	57.9
12:00 AM - 01:00 AM	61.4	83.8	57.7
01:00 AM - 02:00 AM	61.4	83.8	57.7
02:00 AM - 03:00 AM	62.2	82.6	57.3
03:00 AM - 04:00 AM	61.6	85.5	58.0
04:00 AM - 05:00 AM	60.9	83.4	57.6
05:00 AM - 06:00 AM	61.2	81.7	58.3
06:00 AM - 07:00 AM	61.3	77.6	59.2
07:00 AM - 08:00 AM	60.6	75.5	58.4
08:00 AM - 09:00 AM	60.7	81.8	58.1
09:00 AM - 10:00 AM	61.9	83.2	59.2
10:00 AM - 11:00 AM	61.4	77.7	58.8
Leq Average 24 hrs. (dB(A))	61.8		
Lmax (dB(A))		86.9	
L90 (dB(A))			58.8
Ldn (dB(A))	67.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114633
Date Received : Apr 10, 2026
Date Reported : Apr 21, 2026
Report Number: 3553203-1

Sample Number	25114633-28
Parameter	Noise (Leq 24 hrs.)
Location	รับรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date	Apr 08 - Apr 09, 2026
Measurement by	Winyou Boontanai
Sound Level meter	Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.7	83.0	59.0
12:00 PM - 01:00 PM	61.8	81.1	59.0
01:00 PM - 02:00 PM	62.9	85.2	59.8
02:00 PM - 03:00 PM	62.0	83.2	58.8
03:00 PM - 04:00 PM	61.7	81.4	58.4
04:00 PM - 05:00 PM	62.1	82.5	59.2
05:00 PM - 06:00 PM	63.7	82.2	60.2
06:00 PM - 07:00 PM	63.1	81.8	60.0
07:00 PM - 08:00 PM	62.1	82.2	58.7
08:00 PM - 09:00 PM	62.3	82.0	59.1
09:00 PM - 10:00 PM	60.7	76.2	58.3
10:00 PM - 11:00 PM	61.0	79.3	58.7
11:00 PM - 12:00 AM	61.7	78.0	58.5
12:00 AM - 01:00 AM	59.8	79.3	57.5
01:00 AM - 02:00 AM	59.2	74.0	57.4
02:00 AM - 03:00 AM	60.2	81.7	58.1
03:00 AM - 04:00 AM	60.3	76.5	58.3
04:00 AM - 05:00 AM	60.1	75.0	58.0
05:00 AM - 06:00 AM	61.0	75.2	59.2
06:00 AM - 07:00 AM	61.8	80.0	59.9
07:00 AM - 08:00 AM	61.4	75.9	59.3
08:00 AM - 09:00 AM	61.7	79.7	59.0
09:00 AM - 10:00 AM	63.8	81.4	60.3
10:00 AM - 11:00 AM	62.5	81.2	60.0
Leq Average 24 hrs. (dB(A))	61.8		
Lmax (dB(A))		85.2	
L90 (dB(A))			59.0
Ldn (dB(A))	67.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management Orawan R.
Orawan Rakyong
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Life Sciences www.alsglobal.com
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2995-71/ EMAIL S:\Reports_Air Noise.rpt (1:56PM)

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551075-1

Sample No. 25114636-1
Parameter เสียงรบกวน
Location บ้านซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	57.9	59.1	n/a	-	56.9	-
12:00 PM - 01:00 PM	58.3	59.4	n/a	-	57.1	-
01:00 PM - 02:00 PM	58.0	58.9	n/a	-	56.4	-
02:00 PM - 03:00 PM	71.7	64.1	70.9	-	58.4	12.5
03:00 PM - 04:00 PM	73.2	66.6	72.1	-	62.0	10.1
04:00 PM - 05:00 PM	72.3	65.2	71.4	-	61.2	10.2
05:00 PM - 06:00 PM	61.3	60.6	53.0	-	58.0	-5.0
06:00 PM - 07:00 PM	61.3	59.9	55.7	-	57.2	-1.5
07:00 PM - 08:00 PM	58.9	58.4	49.3	-	56.0	-6.7
08:00 PM - 09:00 PM	60.1	60.2	n/a	-	56.3	-
09:00 PM - 10:00 PM	61.1	58.3	57.9	-	55.9	2.0
10:00 PM - 10:05 PM	58.8	58.1	-	53.5	56.7	-3.2
10:05 PM - 10:10 PM	58.5	57.6	-	54.2	55.3	-1.1
10:10 PM - 10:15 PM	59.8	57.6	-	58.8	55.5	3.3
10:15 PM - 10:20 PM	59.1	59.2	-	n/a	57.1	-
10:20 PM - 10:25 PM	58.6	58.8	-	n/a	56.9	-
10:25 PM - 10:30 PM	59.7	58.2	-	57.4	55.5	1.9
10:30 PM - 10:35 PM	59.2	60.2	-	n/a	56.7	-
10:35 PM - 10:40 PM	58.6	59.0	-	n/a	56.6	-
10:40 PM - 10:45 PM	59.6	58.4	-	56.4	56.0	0.4
10:45 PM - 10:50 PM	59.6	59.5	-	46.2	57.6	-11.4
10:50 PM - 10:55 PM	59.1	59.4	-	n/a	57.1	-
10:55 PM - 11:00 PM	59.9	59.2	-	54.6	55.9	-1.3
11:00 PM - 11:05 PM	59.8	59.9	-	n/a	57.0	-
11:05 PM - 11:10 PM	59.3	59.3	-	n/a	56.8	-
11:10 PM - 11:15 PM	59.1	58.7	-	51.5	56.3	-4.8
11:15 PM - 11:20 PM	58.4	58.9	-	n/a	56.2	-
11:20 PM - 11:25 PM	58.9	57.6	-	56.0	55.2	0.8
11:25 PM - 11:30 PM	58.9	58.4	-	52.3	55.9	-3.6
11:30 PM - 11:35 PM	60.2	58.5	-	58.3	56.3	2.0
11:35 PM - 11:40 PM	58.4	60.3	-	n/a	56.9	-
11:40 PM - 11:45 PM	59.1	58.3	-	54.4	56.0	-1.6
11:45 PM - 11:50 PM	58.8	58.7	-	45.4	56.6	-11.2
11:50 PM - 11:55 PM	58.6	58.9	-	n/a	57.1	-
11:55 PM - 12:00 AM	59.6	58.3	-	56.7	56.4	0.3
12:00 AM - 12:05 AM	58.8	59.5	-	n/a	56.7	-
12:05 AM - 12:10 AM	59.5	58.1	-	56.9	56.5	0.4
12:10 AM - 12:15 AM	59.1	58.9	-	48.6	56.4	-7.8
12:15 AM - 12:20 AM	59.4	59.2	-	48.9	56.7	-7.8
12:20 AM - 12:25 AM	59.6	59.4	-	49.1	54.9	-5.8

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551075-1

Sample No. 25114636-1
Parameter เสียงรบกวน
Location บ้านซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	58.8	59.1	-	n/a	56.7	-
12:30 AM - 12:35 AM	64.6	58.7	-	66.3	56.5	9.8
12:35 AM - 12:40 AM	59.5	61.4	-	n/a	56.0	-
12:40 AM - 12:45 AM	58.9	57.7	-	55.7	55.1	0.6
12:45 AM - 12:50 AM	58.3	58.6	-	n/a	55.8	-
12:50 AM - 12:55 AM	59.1	58.1	-	55.2	55.7	-0.5
12:55 AM - 01:00 AM	58.1	58.2	-	n/a	55.7	-
01:00 AM - 01:05 AM	58.3	57.6	-	53.0	55.3	-2.3
01:05 AM - 01:10 AM	58.8	57.5	-	55.9	55.0	0.9
01:10 AM - 01:15 AM	58.5	57.4	-	55.0	54.3	0.7
01:15 AM - 01:20 AM	57.4	58.4	-	n/a	54.4	-
01:20 AM - 01:25 AM	58.3	56.6	-	56.4	53.9	2.5
01:25 AM - 01:30 AM	58.5	57.5	-	54.6	55.1	-0.5
01:30 AM - 01:35 AM	58.4	58.0	-	50.8	55.0	-4.2
01:35 AM - 01:40 AM	58.9	57.7	-	55.7	53.9	1.8
01:40 AM - 01:45 AM	58.1	58.5	-	n/a	55.6	-
01:45 AM - 01:50 AM	58.1	57.6	-	51.5	54.7	-3.2
01:50 AM - 01:55 AM	57.8	57.3	-	51.2	54.5	-3.3
01:55 AM - 02:00 AM	58.2	57.5	-	52.9	54.5	-1.6
02:00 AM - 02:05 AM	57.5	57.8	-	n/a	55.1	-
02:05 AM - 02:10 AM	57.2	57.4	-	n/a	55.0	-
02:10 AM - 02:15 AM	58.0	56.3	-	56.1	53.6	2.5
02:15 AM - 02:20 AM	58.9	57.7	-	55.7	54.0	1.7
02:20 AM - 02:25 AM	57.4	58.5	-	n/a	53.8	-
02:25 AM - 02:30 AM	57.9	57.1	-	53.2	54.6	-1.4
02:30 AM - 02:35 AM	59.1	57.5	-	57.0	55.3	1.7
02:35 AM - 02:40 AM	58.5	58.4	-	45.1	55.8	-10.7
02:40 AM - 02:45 AM	58.4	56.4	-	57.1	54.3	2.8
02:45 AM - 02:50 AM	58.3	57.8	-	51.7	55.6	-3.9
02:50 AM - 02:55 AM	58.8	57.5	-	55.9	55.2	0.7
02:55 AM - 03:00 AM	58.9	58.5	-	51.3	54.0	-2.7
03:00 AM - 03:05 AM	58.3	58.3	-	n/a	55.0	-
03:05 AM - 03:10 AM	57.4	57.8	-	n/a	55.5	-
03:10 AM - 03:15 AM	59.1	57.1	-	57.8	54.8	3.0
03:15 AM - 03:20 AM	59.2	58.1	-	55.7	55.3	0.4
03:20 AM - 03:25 AM	58.2	58.6	-	n/a	54.5	-
03:25 AM - 03:30 AM	58.4	57.8	-	52.5	55.4	-2.9
03:30 AM - 03:35 AM	57.0	58.0	-	n/a	55.5	-
03:35 AM - 03:40 AM	56.7	56.3	-	49.1	53.1	-4.0
03:40 AM - 03:45 AM	58.2	55.6	-	57.7	53.8	3.9

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260

P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551075-1

Sample No. 25114636-1
Parameter เสียงรบกวน
Location บ้านซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	58.3	57.1	-	55.1	53.0	2.1
03:50 AM - 03:55 AM	58.9	57.7	-	55.7	54.5	1.2
03:55 AM - 04:00 AM	60.4	59.3	-	56.9	54.9	2.0
04:00 AM - 04:05 AM	60.2	56.5	-	60.8	54.5	6.3
04:05 AM - 04:10 AM	56.9	56.6	-	48.1	53.9	-5.8
04:10 AM - 04:15 AM	57.4	55.7	-	55.5	53.7	1.8
04:15 AM - 04:20 AM	59.2	56.3	-	59.1	53.6	5.5
04:20 AM - 04:25 AM	57.1	57.9	-	n/a	54.1	-
04:25 AM - 04:30 AM	57.4	55.6	-	55.7	53.4	2.3
04:30 AM - 04:35 AM	57.4	56.5	-	53.1	54.4	-1.3
04:35 AM - 04:40 AM	57.7	56.1	-	55.6	54.1	1.5
04:40 AM - 04:45 AM	58.6	56.4	-	57.6	54.6	3.0
04:45 AM - 04:50 AM	57.9	56.7	-	54.7	54.5	0.2
04:50 AM - 04:55 AM	57.8	56.9	-	53.5	54.2	-0.7
04:55 AM - 05:00 AM	57.7	57.4	-	48.9	54.4	-5.5
05:00 AM - 05:05 AM	57.6	57.2	-	50.0	55.0	-5.0
05:05 AM - 05:10 AM	58.3	57.0	-	55.4	54.8	0.6
05:10 AM - 05:15 AM	58.1	58.1	-	n/a	55.0	-
05:15 AM - 05:20 AM	57.4	58.4	-	n/a	55.7	-
05:20 AM - 05:25 AM	57.8	57.8	-	n/a	55.2	-
05:25 AM - 05:30 AM	58.3	57.5	-	53.6	54.7	-1.1
05:30 AM - 05:35 AM	58.0	58.1	-	n/a	55.6	-
05:35 AM - 05:40 AM	65.1	56.4	-	67.5	53.3	14.2
05:40 AM - 05:45 AM	58.7	59.4	-	n/a	56.0	-
05:45 AM - 05:50 AM	59.5	58.8	-	54.2	55.0	-0.8
05:50 AM - 05:55 AM	61.3	59.2	-	60.1	56.1	4.0
05:55 AM - 06:00 AM	60.3	58.7	-	58.2	56.4	1.8
06:00 AM - 07:00 AM	61.7	61.4	49.9	-	56.7	-6.8
07:00 AM - 08:00 AM	64.4	60.5	62.1	-	57.9	4.2
08:00 AM - 09:00 AM	60.4	59.3	53.9	-	56.6	-2.7
09:00 AM - 10:00 AM	58.8	58.9	n/a	-	56.2	-
10:00 AM - 11:00 AM	61.5	65.0	n/a	-	56.5	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 02-03 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-1 วันที่ตรวจวัด 02-03 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260

P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551076-1

Sample No. 25114636-2
Parameter เสียงรบกวน
Location บ้านซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	58.5	58.7	n/a	-	55.8	-
12:00 PM - 01:00 PM	60.3	58.5	55.6	-	55.7	-0.1
01:00 PM - 02:00 PM	58.9	60.4	n/a	-	56.6	-
02:00 PM - 03:00 PM	59.4	59.6	n/a	-	57.4	-
03:00 PM - 04:00 PM	59.4	60.5	n/a	-	58.4	-
04:00 PM - 05:00 PM	59.4	60.6	n/a	-	58.6	-
05:00 PM - 06:00 PM	60.0	60.8	n/a	-	58.9	-
06:00 PM - 07:00 PM	61.9	61.7	48.4	-	58.8	-10.4
07:00 PM - 08:00 PM	60.0	60.7	n/a	-	57.7	-
08:00 PM - 09:00 PM	59.4	59.9	n/a	-	57.4	-
09:00 PM - 10:00 PM	59.7	60.4	n/a	-	58.2	-
10:00 PM - 10:05 PM	59.1	59.5	-	n/a	57.3	-
10:05 PM - 10:10 PM	58.8	60.2	-	n/a	57.4	-
10:10 PM - 10:15 PM	59.4	59.3	-	46.0	57.7	-11.7
10:15 PM - 10:20 PM	59.7	60.3	-	n/a	58.2	-
10:20 PM - 10:25 PM	63.1	60.2	-	63.0	58.4	4.6
10:25 PM - 10:30 PM	59.0	65.1	-	n/a	57.8	-
10:30 PM - 10:35 PM	59.5	59.4	-	46.1	57.6	-11.5
10:35 PM - 10:40 PM	60.4	60.4	-	n/a	57.9	-
10:40 PM - 10:45 PM	60.1	60.6	-	n/a	58.4	-
10:45 PM - 10:50 PM	59.3	60.4	-	n/a	57.8	-
10:50 PM - 10:55 PM	59.3	60.2	-	n/a	57.5	-
10:55 PM - 11:00 PM	59.3	60.0	-	n/a	58.1	-
11:00 PM - 11:05 PM	58.9	59.8	-	n/a	58.0	-
11:05 PM - 11:10 PM	59.6	59.4	-	49.1	57.6	-8.5
11:10 PM - 11:15 PM	58.7	61.0	-	n/a	58.1	-
11:15 PM - 11:20 PM	58.8	59.7	-	n/a	57.4	-
11:20 PM - 11:25 PM	58.6	59.5	-	n/a	57.8	-
11:25 PM - 11:30 PM	59.0	60.2	-	n/a	57.2	-
11:30 PM - 11:35 PM	59.8	60.0	-	n/a	57.4	-
11:35 PM - 11:40 PM	58.8	65.1	-	n/a	57.5	-
11:40 PM - 11:45 PM	58.6	60.1	-	n/a	56.9	-
11:45 PM - 11:50 PM	59.1	59.0	-	45.7	57.0	-11.3
11:50 PM - 11:55 PM	58.4	60.0	-	n/a	57.9	-
11:55 PM - 12:00 AM	59.3	59.2	-	45.9	57.0	-11.1
12:00 AM - 12:05 AM	59.6	59.9	-	n/a	57.5	-
12:05 AM - 12:10 AM	59.2	60.5	-	n/a	57.9	-
12:10 AM - 12:15 AM	59.3	59.8	-	n/a	57.3	-
12:15 AM - 12:20 AM	58.5	59.6	-	n/a	57.5	-
12:20 AM - 12:25 AM	69.3	58.8	-	71.9	57.1	14.8

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551076-1

Sample No. 25114636-2
Parameter เสียงรบกวน
Location ป่านขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	59.5	65.2	-	n/a	56.8	-
12:30 AM - 12:35 AM	58.3	59.6	-	n/a	58.2	-
12:35 AM - 12:40 AM	70.0	58.7	-	72.7	56.1	16.6
12:40 AM - 12:45 AM	61.0	65.3	-	n/a	57.6	-
12:45 AM - 12:50 AM	58.5	62.3	-	n/a	56.8	-
12:50 AM - 12:55 AM	63.0	59.0	-	63.8	57.2	6.6
12:55 AM - 01:00 AM	59.3	63.1	-	n/a	57.2	-
01:00 AM - 01:05 AM	58.5	60.3	-	n/a	57.5	-
01:05 AM - 01:10 AM	59.1	58.9	-	48.6	56.0	-7.4
01:10 AM - 01:15 AM	58.9	59.6	-	n/a	56.7	-
01:15 AM - 01:20 AM	58.6	59.2	-	n/a	56.7	-
01:20 AM - 01:25 AM	58.8	59.1	-	n/a	57.2	-
01:25 AM - 01:30 AM	57.2	59.1	-	n/a	56.0	-
01:30 AM - 01:35 AM	58.3	57.3	-	54.4	55.6	-1.2
01:35 AM - 01:40 AM	57.9	58.4	-	n/a	55.8	-
01:40 AM - 01:45 AM	58.0	58.5	-	n/a	56.1	-
01:45 AM - 01:50 AM	59.0	58.9	-	45.6	56.4	-10.8
01:50 AM - 01:55 AM	57.6	63.2	-	n/a	56.1	-
01:55 AM - 02:00 AM	58.7	58.0	-	53.4	56.0	-2.6
02:00 AM - 02:05 AM	58.2	59.1	-	n/a	56.2	-
02:05 AM - 02:10 AM	57.7	58.8	-	n/a	56.5	-
02:10 AM - 02:15 AM	57.8	58.1	-	n/a	56.3	-
02:15 AM - 02:20 AM	64.5	58.1	-	66.4	56.4	10.0
02:20 AM - 02:25 AM	57.7	60.7	-	n/a	57.5	-
02:25 AM - 02:30 AM	58.5	58.5	-	n/a	56.0	-
02:30 AM - 02:35 AM	57.1	59.1	-	n/a	56.8	-
02:35 AM - 02:40 AM	58.1	57.7	-	50.5	55.4	-4.9
02:40 AM - 02:45 AM	58.3	58.7	-	n/a	56.8	-
02:45 AM - 02:50 AM	69.0	58.7	-	71.6	55.8	15.8
02:50 AM - 02:55 AM	58.3	60.5	-	n/a	56.0	-
02:55 AM - 03:00 AM	58.0	65.5	-	n/a	56.0	-
03:00 AM - 03:05 AM	58.5	58.8	-	n/a	56.8	-
03:05 AM - 03:10 AM	59.2	60.0	-	n/a	56.3	-
03:10 AM - 03:15 AM	58.6	59.7	-	n/a	57.5	-
03:15 AM - 03:20 AM	58.1	59.1	-	n/a	56.5	-
03:20 AM - 03:25 AM	57.4	58.9	-	n/a	56.5	-
03:25 AM - 03:30 AM	58.2	58.0	-	47.7	55.7	-8.0
03:30 AM - 03:35 AM	57.7	58.7	-	n/a	55.8	-
03:35 AM - 03:40 AM	58.7	58.2	-	52.1	55.8	-3.7
03:40 AM - 03:45 AM	58.1	58.4	-	n/a	55.5	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551076-1

Sample No. 25114636-2
Parameter เสียงรบกวน
Location ป่านขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	58.1	59.2	-	n/a	55.9	-
03:50 AM - 03:55 AM	57.5	58.9	-	n/a	54.8	-
03:55 AM - 04:00 AM	58.1	57.9	-	47.6	55.5	-7.9
04:00 AM - 04:05 AM	57.7	58.6	-	n/a	56.1	-
04:05 AM - 04:10 AM	58.1	58.2	-	n/a	56.2	-
04:10 AM - 04:15 AM	57.9	58.5	-	n/a	56.3	-
04:15 AM - 04:20 AM	58.1	58.6	-	n/a	55.7	-
04:20 AM - 04:25 AM	58.3	58.5	-	n/a	56.3	-
04:25 AM - 04:30 AM	58.2	58.6	-	n/a	55.5	-
04:30 AM - 04:35 AM	58.7	58.9	-	n/a	57.0	-
04:35 AM - 04:40 AM	57.7	59.6	-	n/a	56.4	-
04:40 AM - 04:45 AM	57.7	58.4	-	n/a	55.8	-
04:45 AM - 04:50 AM	58.4	58.5	-	n/a	56.3	-
04:50 AM - 04:55 AM	57.8	59.0	-	n/a	55.9	-
04:55 AM - 05:00 AM	58.3	58.2	-	44.9	55.7	-10.8
05:00 AM - 05:05 AM	58.9	60.8	-	n/a	56.5	-
05:05 AM - 05:10 AM	58.6	59.9	-	n/a	56.2	-
05:10 AM - 05:15 AM	58.5	59.1	-	n/a	56.9	-
05:15 AM - 05:20 AM	58.3	59.2	-	n/a	57.5	-
05:20 AM - 05:25 AM	58.3	59.0	-	n/a	57.0	-
05:25 AM - 05:30 AM	58.8	59.1	-	n/a	56.8	-
05:30 AM - 05:35 AM	59.9	59.6	-	51.1	57.4	-6.3
05:35 AM - 05:40 AM	61.4	59.9	-	59.1	57.1	2.0
05:40 AM - 05:45 AM	59.3	61.5	-	n/a	56.6	-
05:45 AM - 05:50 AM	59.2	60.1	-	n/a	57.4	-
05:50 AM - 05:55 AM	62.3	60.0	-	61.4	57.9	3.5
05:55 AM - 06:00 AM	60.1	62.3	-	n/a	58.7	-
06:00 AM - 07:00 AM	60.1	60.9	n/a	-	58.6	-
07:00 AM - 08:00 AM	60.6	61.9	n/a	-	58.8	-
08:00 AM - 09:00 AM	59.3	60.4	n/a	-	58.0	-
09:00 AM - 10:00 AM	58.9	59.8	n/a	-	57.6	-
10:00 AM - 11:00 AM	61.5	65.1	n/a	-	58.1	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 03-04 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-2 วันที่ตรวจวัด 03-04 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Life Sciences www.alsglobal.com
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551077-1

Sample No. 25114636-3
Parameter เสียงรบกวน
Location ปากซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	58.5	59.3	n/a	-	57.4	-
12:00 PM - 01:00 PM	59.3	59.8	n/a	-	57.5	-
01:00 PM - 02:00 PM	58.5	59.4	n/a	-	57.5	-
02:00 PM - 03:00 PM	58.7	60.1	n/a	-	57.9	-
03:00 PM - 04:00 PM	59.2	60.3	n/a	-	58.0	-
04:00 PM - 05:00 PM	59.7	60.9	n/a	-	58.2	-
05:00 PM - 06:00 PM	60.9	61.1	n/a	-	58.2	-
06:00 PM - 07:00 PM	61.4	61.1	49.6	-	58.4	-8.8
07:00 PM - 08:00 PM	59.6	60.4	n/a	-	57.6	-
08:00 PM - 09:00 PM	59.5	60.0	n/a	-	57.5	-
09:00 PM - 10:00 PM	59.6	60.4	n/a	-	58.1	-
10:00 PM - 10:05 PM	59.1	61.5	-	n/a	58.8	-
10:05 PM - 10:10 PM	59.8	60.0	-	n/a	57.2	-
10:10 PM - 10:15 PM	60.7	60.8	-	n/a	57.1	-
10:15 PM - 10:20 PM	58.8	61.4	-	n/a	58.3	-
10:20 PM - 10:25 PM	59.2	59.4	-	n/a	57.9	-
10:25 PM - 10:30 PM	58.9	60.0	-	n/a	58.4	-
10:30 PM - 10:35 PM	59.8	59.6	-	49.3	57.4	-8.1
10:35 PM - 10:40 PM	58.6	60.1	-	n/a	58.1	-
10:40 PM - 10:45 PM	59.8	59.8	-	n/a	57.9	-
10:45 PM - 10:50 PM	58.5	60.6	-	n/a	58.4	-
10:50 PM - 10:55 PM	58.9	59.5	-	n/a	57.7	-
10:55 PM - 11:00 PM	58.3	59.6	-	n/a	57.6	-
11:00 PM - 11:05 PM	58.6	58.8	-	n/a	56.8	-
11:05 PM - 11:10 PM	58.3	58.8	-	n/a	57.2	-
11:10 PM - 11:15 PM	58.6	59.0	-	n/a	57.6	-
11:15 PM - 11:20 PM	58.0	59.3	-	n/a	57.1	-
11:20 PM - 11:25 PM	59.2	58.3	-	54.9	56.8	-1.9
11:25 PM - 11:30 PM	59.1	59.8	-	n/a	57.8	-
11:30 PM - 11:35 PM	59.6	59.6	-	n/a	57.7	-
11:35 PM - 11:40 PM	58.7	60.3	-	n/a	57.0	-
11:40 PM - 11:45 PM	58.5	59.4	-	n/a	56.1	-
11:45 PM - 11:50 PM	57.7	58.8	-	n/a	57.0	-
11:50 PM - 11:55 PM	57.3	58.4	-	n/a	56.5	-
11:55 PM - 12:00 AM	57.4	57.8	-	n/a	55.9	-
12:00 AM - 12:05 AM	58.5	58.0	-	51.9	56.1	-4.2
12:05 AM - 12:10 AM	57.9	59.0	-	n/a	56.9	-
12:10 AM - 12:15 AM	57.8	58.5	-	n/a	56.3	-
12:15 AM - 12:20 AM	57.9	58.3	-	n/a	56.6	-
12:20 AM - 12:25 AM	58.2	58.4	-	n/a	56.9	-

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551077-1

Sample No. 25114636-3
Parameter เสียงรบกวน
Location ปากซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	58.0	59.1	-	n/a	56.8	-
12:30 AM - 12:35 AM	58.1	58.6	-	n/a	56.3	-
12:35 AM - 12:40 AM	57.5	59.2	-	n/a	56.0	-
12:40 AM - 12:45 AM	57.8	58.0	-	n/a	56.3	-
12:45 AM - 12:50 AM	57.6	58.4	-	n/a	56.2	-
12:50 AM - 12:55 AM	57.8	58.2	-	n/a	56.0	-
12:55 AM - 01:00 AM	57.5	57.7	-	n/a	55.6	-
01:00 AM - 01:05 AM	57.3	58.1	-	n/a	55.9	-
01:05 AM - 01:10 AM	58.2	57.8	-	50.6	55.9	-5.3
01:10 AM - 01:15 AM	69.7	58.8	-	72.3	56.5	15.8
01:15 AM - 01:20 AM	58.3	64.2	-	n/a	56.3	-
01:20 AM - 01:25 AM	58.7	58.7	-	n/a	55.8	-
01:25 AM - 01:30 AM	58.3	59.3	-	n/a	57.1	-
01:30 AM - 01:35 AM	59.3	58.5	-	54.6	56.9	-2.3
01:35 AM - 01:40 AM	57.6	59.7	-	n/a	56.3	-
01:40 AM - 01:45 AM	57.6	57.5	-	44.2	55.5	-11.3
01:45 AM - 01:50 AM	58.5	58.0	-	51.9	56.2	-4.3
01:50 AM - 01:55 AM	57.0	59.4	-	n/a	56.6	-
01:55 AM - 02:00 AM	69.1	57.5	-	71.8	55.5	16.3
02:00 AM - 02:05 AM	57.3	64.3	-	n/a	56.3	-
02:05 AM - 02:10 AM	57.6	57.9	-	n/a	55.4	-
02:10 AM - 02:15 AM	57.9	57.9	-	n/a	56.0	-
02:15 AM - 02:20 AM	57.4	58.2	-	n/a	56.1	-
02:20 AM - 02:25 AM	58.1	57.8	-	49.3	54.6	-5.3
02:25 AM - 02:30 AM	57.6	58.7	-	n/a	55.8	-
02:30 AM - 02:35 AM	68.4	58.0	-	71.0	56.0	15.0
02:35 AM - 02:40 AM	62.2	58.3	-	62.9	55.7	7.2
02:40 AM - 02:45 AM	58.5	61.8	-	n/a	56.2	-
02:45 AM - 02:50 AM	56.9	59.1	-	n/a	56.3	-
02:50 AM - 02:55 AM	58.1	57.5	-	52.2	55.6	-3.4
02:55 AM - 03:00 AM	63.1	58.5	-	64.3	56.5	7.8
03:00 AM - 03:05 AM	57.8	59.7	-	n/a	56.6	-
03:05 AM - 03:10 AM	57.8	58.2	-	n/a	56.3	-
03:10 AM - 03:15 AM	58.8	58.5	-	50.0	56.4	-6.4
03:15 AM - 03:20 AM	57.0	59.6	-	n/a	55.8	-
03:20 AM - 03:25 AM	57.7	58.0	-	n/a	55.6	-
03:25 AM - 03:30 AM	57.6	58.3	-	n/a	56.2	-
03:30 AM - 03:35 AM	58.2	58.3	-	n/a	55.9	-
03:35 AM - 03:40 AM	57.0	59.0	-	n/a	56.6	-
03:40 AM - 03:45 AM	57.5	57.3	-	47.0	55.6	-8.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551077-1

Sample No. 25114636-3
Parameter เสียงรบกวน
Location บ่านขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	58.1	58.0	-	44.7	56.0	-11.3
03:50 AM - 03:55 AM	57.3	58.7	-	n/a	55.8	-
03:55 AM - 04:00 AM	57.2	57.7	-	n/a	55.3	-
04:00 AM - 04:05 AM	57.8	57.4	-	50.2	55.5	-5.3
04:05 AM - 04:10 AM	57.5	58.8	-	n/a	56.4	-
04:10 AM - 04:15 AM	57.6	57.4	-	47.1	55.1	-8.0
04:15 AM - 04:20 AM	58.4	58.2	-	47.9	55.8	-7.9
04:20 AM - 04:25 AM	57.9	58.3	-	n/a	55.5	-
04:25 AM - 04:30 AM	58.8	57.8	-	54.9	55.3	-0.4
04:30 AM - 04:35 AM	58.3	60.2	-	n/a	57.1	-
04:35 AM - 04:40 AM	57.8	58.5	-	n/a	56.7	-
04:40 AM - 04:45 AM	58.1	59.8	-	n/a	56.0	-
04:45 AM - 04:50 AM	57.4	58.5	-	n/a	56.5	-
04:50 AM - 04:55 AM	58.0	58.0	-	n/a	56.0	-
04:55 AM - 05:00 AM	57.6	59.1	-	n/a	56.6	-
05:00 AM - 05:05 AM	58.3	58.2	-	44.9	55.9	-11.0
05:05 AM - 05:10 AM	57.6	58.8	-	n/a	55.9	-
05:10 AM - 05:15 AM	57.7	58.6	-	n/a	56.1	-
05:15 AM - 05:20 AM	57.8	58.6	-	n/a	56.8	-
05:20 AM - 05:25 AM	57.9	58.6	-	n/a	57.1	-
05:25 AM - 05:30 AM	57.7	58.7	-	n/a	56.7	-
05:30 AM - 05:35 AM	58.1	58.8	-	n/a	57.3	-
05:35 AM - 05:40 AM	58.4	59.0	-	n/a	57.6	-
05:40 AM - 05:45 AM	58.6	59.2	-	n/a	57.4	-
05:45 AM - 05:50 AM	59.8	59.6	-	49.3	57.6	-8.3
05:50 AM - 05:55 AM	60.2	60.1	-	46.8	58.3	-11.5
05:55 AM - 06:00 AM	59.8	61.1	-	n/a	59.5	-
06:00 AM - 07:00 AM	60.1	61.3	n/a	-	59.4	-
07:00 AM - 08:00 AM	60.3	61.7	n/a	-	59.7	-
08:00 AM - 09:00 AM	59.8	61.0	n/a	-	59.1	-
09:00 AM - 10:00 AM	59.7	61.0	n/a	-	58.5	-
10:00 AM - 11:00 AM	59.4	60.9	n/a	-	59.0	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 04-05 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-3 วันที่ตรวจวัด 04-05 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551078-1

Sample No. 25114636-4
Parameter เสียงรบกวน
Location บ่านขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	59.6	60.9	n/a	-	57.4	-
12:00 PM - 01:00 PM	59.4	61.0	n/a	-	59.0	-
01:00 PM - 02:00 PM	59.5	60.8	n/a	-	58.9	-
02:00 PM - 03:00 PM	59.4	60.9	n/a	-	59.1	-
03:00 PM - 04:00 PM	60.1	61.6	n/a	-	59.6	-
04:00 PM - 05:00 PM	59.8	61.3	n/a	-	59.7	-
05:00 PM - 06:00 PM	61.5	62.4	n/a	-	59.9	-
06:00 PM - 07:00 PM	61.7	62.1	n/a	-	59.7	-
07:00 PM - 08:00 PM	61.2	61.8	n/a	-	60.2	-
08:00 PM - 09:00 PM	62.1	61.5	53.2	-	59.7	-6.5
09:00 PM - 10:00 PM	60.4	61.8	n/a	-	60.5	-
10:00 PM - 10:05 PM	60.0	63.6	-	n/a	60.7	-
10:05 PM - 10:10 PM	59.7	61.5	-	n/a	60.2	-
10:10 PM - 10:15 PM	60.0	61.6	-	n/a	60.3	-
10:15 PM - 10:20 PM	60.6	61.6	-	n/a	60.1	-
10:20 PM - 10:25 PM	60.1	61.8	-	n/a	59.7	-
10:25 PM - 10:30 PM	59.0	61.4	-	n/a	59.9	-
10:30 PM - 10:35 PM	60.5	60.3	-	50.0	58.5	-8.5
10:35 PM - 10:40 PM	59.8	61.5	-	n/a	58.7	-
10:40 PM - 10:45 PM	60.3	60.8	-	n/a	59.6	-
10:45 PM - 10:50 PM	60.8	61.8	-	n/a	60.2	-
10:50 PM - 10:55 PM	59.7	62.1	-	n/a	60.2	-
10:55 PM - 11:00 PM	59.9	61.4	-	n/a	59.4	-
11:00 PM - 11:05 PM	61.1	61.7	-	n/a	60.2	-
11:05 PM - 11:10 PM	60.1	62.3	-	n/a	60.7	-
11:10 PM - 11:15 PM	59.2	62.0	-	n/a	60.7	-
11:15 PM - 11:20 PM	60.0	60.6	-	n/a	59.3	-
11:20 PM - 11:25 PM	65.8	61.3	-	66.9	59.6	7.3
11:25 PM - 11:30 PM	59.8	62.3	-	n/a	60.0	-
11:30 PM - 11:35 PM	59.5	61.5	-	n/a	60.2	-
11:35 PM - 11:40 PM	60.2	61.4	-	n/a	60.0	-
11:40 PM - 11:45 PM	59.6	61.4	-	n/a	60.0	-
11:45 PM - 11:50 PM	60.2	61.2	-	n/a	59.7	-
11:50 PM - 11:55 PM	59.9	61.7	-	n/a	59.1	-
11:55 PM - 12:00 AM	60.0	61.3	-	n/a	59.9	-
12:00 AM - 12:05 AM	59.6	61.7	-	n/a	59.5	-
12:05 AM - 12:10 AM	59.8	61.0	-	n/a	59.4	-
12:10 AM - 12:15 AM	59.5	61.2	-	n/a	59.6	-
12:15 AM - 12:20 AM	59.7	61.3	-	n/a	60.0	-
12:20 AM - 12:25 AM	61.7	61.1	-	55.8	59.6	-3.8

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551078-1

Sample No. 25114636-4
Parameter เสียงรบกวน
Location ปากขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	58.9	61.3	-	n/a	59.5	-
12:30 AM - 12:35 AM	59.0	60.6	-	n/a	59.1	-
12:35 AM - 12:40 AM	59.5	60.5	-	n/a	59.2	-
12:40 AM - 12:45 AM	58.8	61.3	-	n/a	59.4	-
12:45 AM - 12:50 AM	59.2	60.1	-	n/a	58.9	-
12:50 AM - 12:55 AM	59.2	60.7	-	n/a	58.8	-
12:55 AM - 01:00 AM	59.4	60.2	-	n/a	58.3	-
01:00 AM - 01:05 AM	59.5	60.6	-	n/a	58.5	-
01:05 AM - 01:10 AM	59.6	61.1	-	n/a	58.9	-
01:10 AM - 01:15 AM	58.8	61.1	-	n/a	59.3	-
01:15 AM - 01:20 AM	58.8	60.3	-	n/a	59.0	-
01:20 AM - 01:25 AM	59.1	60.2	-	n/a	58.8	-
01:25 AM - 01:30 AM	58.6	60.6	-	n/a	58.8	-
01:30 AM - 01:35 AM	58.6	59.9	-	n/a	58.5	-
01:35 AM - 01:40 AM	58.9	60.1	-	n/a	59.0	-
01:40 AM - 01:45 AM	59.2	60.0	-	n/a	58.7	-
01:45 AM - 01:50 AM	59.0	60.6	-	n/a	59.0	-
01:50 AM - 01:55 AM	59.3	60.5	-	n/a	58.9	-
01:55 AM - 02:00 AM	59.0	60.8	-	n/a	59.2	-
02:00 AM - 02:05 AM	59.2	60.3	-	n/a	58.8	-
02:05 AM - 02:10 AM	59.3	60.4	-	n/a	58.8	-
02:10 AM - 02:15 AM	59.4	61.6	-	n/a	59.1	-
02:15 AM - 02:20 AM	58.8	60.7	-	n/a	59.1	-
02:20 AM - 02:25 AM	58.5	60.1	-	n/a	58.5	-
02:25 AM - 02:30 AM	59.6	59.8	-	n/a	58.3	-
02:30 AM - 02:35 AM	58.7	60.6	-	n/a	59.5	-
02:35 AM - 02:40 AM	59.7	60.0	-	n/a	58.3	-
02:40 AM - 02:45 AM	59.3	60.8	-	n/a	58.8	-
02:45 AM - 02:50 AM	59.2	61.2	-	n/a	59.1	-
02:50 AM - 02:55 AM	58.9	60.7	-	n/a	59.1	-
02:55 AM - 03:00 AM	59.4	60.3	-	n/a	59.0	-
03:00 AM - 03:05 AM	59.1	60.8	-	n/a	58.8	-
03:05 AM - 03:10 AM	59.1	60.5	-	n/a	58.7	-
03:10 AM - 03:15 AM	58.7	60.6	-	n/a	59.0	-
03:15 AM - 03:20 AM	59.1	59.9	-	n/a	58.0	-
03:20 AM - 03:25 AM	59.2	60.2	-	n/a	58.2	-
03:25 AM - 03:30 AM	58.9	59.9	-	n/a	57.9	-
03:30 AM - 03:35 AM	58.9	60.1	-	n/a	58.3	-
03:35 AM - 03:40 AM	59.3	60.0	-	n/a	58.3	-
03:40 AM - 03:45 AM	60.4	60.4	-	n/a	58.3	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551078-1

Sample No. 25114636-4
Parameter เสียงรบกวน
Location ปากขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	58.6	61.7	-	n/a	57.9	-
03:50 AM - 03:55 AM	58.7	59.9	-	n/a	58.2	-
03:55 AM - 04:00 AM	59.1	59.9	-	n/a	57.9	-
04:00 AM - 04:05 AM	58.6	60.1	-	n/a	58.1	-
04:05 AM - 04:10 AM	58.5	59.4	-	n/a	57.5	-
04:10 AM - 04:15 AM	58.2	59.0	-	n/a	57.6	-
04:15 AM - 04:20 AM	58.7	59.4	-	n/a	58.0	-
04:20 AM - 04:25 AM	59.0	59.6	-	n/a	57.2	-
04:25 AM - 04:30 AM	58.5	59.7	-	n/a	58.0	-
04:30 AM - 04:35 AM	59.0	59.4	-	n/a	57.4	-
04:35 AM - 04:40 AM	59.1	59.8	-	n/a	57.9	-
04:40 AM - 04:45 AM	58.7	59.9	-	n/a	57.9	-
04:45 AM - 04:50 AM	58.4	59.7	-	n/a	58.2	-
04:50 AM - 04:55 AM	58.6	58.9	-	n/a	57.2	-
04:55 AM - 05:00 AM	58.6	59.5	-	n/a	57.9	-
05:00 AM - 05:05 AM	58.9	59.3	-	n/a	57.7	-
05:05 AM - 05:10 AM	59.1	59.6	-	n/a	58.1	-
05:10 AM - 05:15 AM	59.3	60.1	-	n/a	58.6	-
05:15 AM - 05:20 AM	59.1	60.5	-	n/a	58.6	-
05:20 AM - 05:25 AM	59.3	60.0	-	n/a	58.4	-
05:25 AM - 05:30 AM	59.7	60.4	-	n/a	58.5	-
05:30 AM - 05:35 AM	59.2	60.8	-	n/a	58.8	-
05:35 AM - 05:40 AM	60.9	59.9	-	57.0	58.2	-1.2
05:40 AM - 05:45 AM	59.6	62.1	-	n/a	58.0	-
05:45 AM - 05:50 AM	60.6	60.6	-	n/a	58.8	-
05:50 AM - 05:55 AM	59.9	61.0	-	n/a	59.6	-
05:55 AM - 06:00 AM	60.2	60.8	-	n/a	58.6	-
06:00 AM - 07:00 AM	61.1	62.1	n/a	-	59.4	-
07:00 AM - 08:00 AM	60.3	61.2	n/a	-	59.3	-
08:00 AM - 09:00 AM	59.6	60.8	n/a	-	59.1	-
09:00 AM - 10:00 AM	59.2	60.7	n/a	-	58.7	-
10:00 AM - 11:00 AM	59.0	60.4	n/a	-	58.5	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 05-06 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-4 วันที่ตรวจวัด 05-06 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551079-1

Sample No. 25114636-5
Parameter เสียงรบกวน
Location บ้านซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	59.2	65.1	n/a	-	58.5	-
12:00 PM - 01:00 PM	59.6	61.0	n/a	-	59.1	-
01:00 PM - 02:00 PM	59.8	61.2	n/a	-	59.4	-
02:00 PM - 03:00 PM	59.4	61.1	n/a	-	59.1	-
03:00 PM - 04:00 PM	59.4	61.1	n/a	-	59.3	-
04:00 PM - 05:00 PM	59.7	61.1	n/a	-	59.2	-
05:00 PM - 06:00 PM	59.9	61.2	n/a	-	59.4	-
06:00 PM - 07:00 PM	60.4	61.4	n/a	-	59.4	-
07:00 PM - 08:00 PM	60.5	61.9	n/a	-	60.0	-
08:00 PM - 09:00 PM	60.6	61.5	n/a	-	59.6	-
09:00 PM - 10:00 PM	64.1	61.6	60.5	-	59.5	1.0
10:00 PM - 10:05 PM	60.2	61.3	-	n/a	59.4	-
10:05 PM - 10:10 PM	68.4	61.2	-	70.5	59.5	11.0
10:10 PM - 10:15 PM	65.7	63.1	-	65.2	59.3	5.9
10:15 PM - 10:20 PM	59.6	60.6	-	n/a	59.1	-
10:20 PM - 10:25 PM	59.8	60.5	-	n/a	58.2	-
10:25 PM - 10:30 PM	59.4	60.9	-	n/a	59.2	-
10:30 PM - 10:35 PM	59.0	60.2	-	n/a	58.7	-
10:35 PM - 10:40 PM	59.3	60.0	-	n/a	58.8	-
10:40 PM - 10:45 PM	59.9	61.1	-	n/a	59.4	-
10:45 PM - 10:50 PM	59.6	60.7	-	n/a	59.2	-
10:50 PM - 10:55 PM	59.5	60.6	-	n/a	59.2	-
10:55 PM - 11:00 PM	59.9	61.0	-	n/a	59.4	-
11:00 PM - 11:05 PM	59.8	60.6	-	n/a	58.6	-
11:05 PM - 11:10 PM	59.5	61.0	-	n/a	59.2	-
11:10 PM - 11:15 PM	59.0	60.4	-	n/a	58.9	-
11:15 PM - 11:20 PM	59.9	60.4	-	n/a	58.6	-
11:20 PM - 11:25 PM	66.1	60.6	-	67.7	58.3	9.4
11:25 PM - 11:30 PM	59.6	64.6	-	n/a	58.9	-
11:30 PM - 11:35 PM	59.2	60.7	-	n/a	59.3	-
11:35 PM - 11:40 PM	59.3	60.4	-	n/a	59.0	-
11:40 PM - 11:45 PM	59.7	60.4	-	n/a	59.3	-
11:45 PM - 11:50 PM	59.1	60.8	-	n/a	58.8	-
11:50 PM - 11:55 PM	59.7	60.3	-	n/a	58.4	-
11:55 PM - 12:00 AM	58.5	60.1	-	n/a	58.3	-
12:00 AM - 12:05 AM	59.0	59.2	-	n/a	56.6	-
12:05 AM - 12:10 AM	59.2	59.3	-	n/a	57.7	-
12:10 AM - 12:15 AM	59.2	59.8	-	n/a	58.0	-
12:15 AM - 12:20 AM	59.3	60.3	-	n/a	58.2	-
12:20 AM - 12:25 AM	60.8	61.7	-	n/a	58.6	-

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551079-1

Sample No. 25114636-5
Parameter เสียงรบกวน
Location บ้านซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	59.7	60.3	-	n/a	58.5	-
12:30 AM - 12:35 AM	65.4	61.2	-	66.3	58.9	7.4
12:35 AM - 12:40 AM	64.8	61.1	-	65.4	57.9	7.5
12:40 AM - 12:45 AM	59.5	60.0	-	n/a	58.2	-
12:45 AM - 12:50 AM	59.3	60.0	-	n/a	58.4	-
12:50 AM - 12:55 AM	59.2	60.0	-	n/a	58.2	-
12:55 AM - 01:00 AM	58.7	60.2	-	n/a	58.2	-
01:00 AM - 01:05 AM	59.3	59.7	-	n/a	58.0	-
01:05 AM - 01:10 AM	58.9	60.3	-	n/a	58.8	-
01:10 AM - 01:15 AM	58.7	59.6	-	n/a	57.9	-
01:15 AM - 01:20 AM	58.9	60.3	-	n/a	57.9	-
01:20 AM - 01:25 AM	59.1	59.3	-	n/a	57.8	-
01:25 AM - 01:30 AM	59.0	60.0	-	n/a	58.4	-
01:30 AM - 01:35 AM	59.0	60.3	-	n/a	58.7	-
01:35 AM - 01:40 AM	59.1	59.8	-	n/a	57.9	-
01:40 AM - 01:45 AM	58.5	59.6	-	n/a	57.8	-
01:45 AM - 01:50 AM	58.9	59.7	-	n/a	57.6	-
01:50 AM - 01:55 AM	58.8	60.0	-	n/a	57.4	-
01:55 AM - 02:00 AM	59.4	59.9	-	n/a	57.5	-
02:00 AM - 02:05 AM	59.0	59.9	-	n/a	57.8	-
02:05 AM - 02:10 AM	63.2	59.8	-	63.5	57.0	6.5
02:10 AM - 02:15 AM	58.9	60.4	-	n/a	58.8	-
02:15 AM - 02:20 AM	59.1	59.9	-	n/a	58.5	-
02:20 AM - 02:25 AM	58.7	59.4	-	n/a	57.6	-
02:25 AM - 02:30 AM	58.6	59.7	-	n/a	58.1	-
02:30 AM - 02:35 AM	59.0	59.9	-	n/a	58.2	-
02:35 AM - 02:40 AM	59.4	60.0	-	n/a	57.9	-
02:40 AM - 02:45 AM	58.8	59.8	-	n/a	58.4	-
02:45 AM - 02:50 AM	59.3	59.7	-	n/a	57.6	-
02:50 AM - 02:55 AM	59.4	59.5	-	n/a	58.1	-
02:55 AM - 03:00 AM	59.0	60.3	-	n/a	58.3	-
03:00 AM - 03:05 AM	58.5	59.5	-	n/a	57.7	-
03:05 AM - 03:10 AM	67.1	61.3	-	68.8	57.6	11.2
03:10 AM - 03:15 AM	59.2	60.2	-	n/a	57.9	-
03:15 AM - 03:20 AM	59.1	59.3	-	n/a	57.9	-
03:20 AM - 03:25 AM	63.6	60.2	-	63.9	58.1	5.8
03:25 AM - 03:30 AM	64.7	59.9	-	66.0	57.4	8.6
03:30 AM - 03:35 AM	59.0	60.8	-	n/a	58.4	-
03:35 AM - 03:40 AM	58.9	59.9	-	n/a	58.1	-
03:40 AM - 03:45 AM	58.9	59.5	-	n/a	57.4	-

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551079-1

Sample No. 25114636-5
Parameter เสียงรบกวน
Location บ่านขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	58.6	59.4	-	n/a	57.6	-
03:50 AM - 03:55 AM	59.7	59.8	-	n/a	58.2	-
03:55 AM - 04:00 AM	63.7	60.3	-	64.0	58.6	5.4
04:00 AM - 04:05 AM	65.7	63.8	-	64.2	58.6	5.6
04:05 AM - 04:10 AM	58.5	59.2	-	n/a	57.5	-
04:10 AM - 04:15 AM	59.7	59.8	-	n/a	58.1	-
04:15 AM - 04:20 AM	59.3	60.0	-	n/a	58.3	-
04:20 AM - 04:25 AM	60.1	60.4	-	n/a	58.7	-
04:25 AM - 04:30 AM	60.1	61.3	-	n/a	58.8	-
04:30 AM - 04:35 AM	58.9	59.9	-	n/a	57.9	-
04:35 AM - 04:40 AM	59.5	60.3	-	n/a	58.3	-
04:40 AM - 04:45 AM	59.8	61.3	-	n/a	59.9	-
04:45 AM - 04:50 AM	58.9	60.8	-	n/a	59.0	-
04:50 AM - 04:55 AM	59.4	60.2	-	n/a	58.9	-
04:55 AM - 05:00 AM	58.8	60.6	-	n/a	59.1	-
05:00 AM - 05:05 AM	59.6	60.3	-	n/a	59.0	-
05:05 AM - 05:10 AM	59.2	60.5	-	n/a	59.1	-
05:10 AM - 05:15 AM	59.3	60.8	-	n/a	59.5	-
05:15 AM - 05:20 AM	59.2	60.5	-	n/a	58.7	-
05:20 AM - 05:25 AM	59.6	66.2	-	n/a	58.9	-
05:25 AM - 05:30 AM	59.2	65.6	-	n/a	59.5	-
05:30 AM - 05:35 AM	59.9	60.5	-	n/a	59.0	-
05:35 AM - 05:40 AM	59.3	61.1	-	n/a	59.3	-
05:40 AM - 05:45 AM	60.3	60.7	-	n/a	58.9	-
05:45 AM - 05:50 AM	61.3	62.2	-	n/a	58.9	-
05:50 AM - 05:55 AM	60.7	62.5	-	n/a	60.7	-
05:55 AM - 06:00 AM	60.1	61.4	-	n/a	59.6	-
06:00 AM - 07:00 AM	60.3	61.8	n/a	-	60.0	-
07:00 AM - 08:00 AM	60.9	62.0	n/a	-	59.8	-
08:00 AM - 09:00 AM	60.0	61.0	n/a	-	58.7	-
09:00 AM - 10:00 AM	58.9	66.2	n/a	-	57.5	-
10:00 AM - 11:00 AM	61.3	65.2	n/a	-	57.4	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 06-07 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-5 วันที่ตรวจวัด 06-07 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551080-1

Sample No. 25114636-6
Parameter เสียงรบกวน
Location บ่านขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	59.0	60.0	n/a	-	57.6	-
12:00 PM - 01:00 PM	59.1	60.1	n/a	-	57.9	-
01:00 PM - 02:00 PM	58.6	58.9	n/a	-	56.8	-
02:00 PM - 03:00 PM	59.3	60.2	n/a	-	57.2	-
03:00 PM - 04:00 PM	59.3	60.4	n/a	-	58.4	-
04:00 PM - 05:00 PM	59.5	60.5	n/a	-	58.4	-
05:00 PM - 06:00 PM	60.0	60.8	n/a	-	58.6	-
06:00 PM - 07:00 PM	60.2	61.2	n/a	-	58.5	-
07:00 PM - 08:00 PM	62.4	62.1	50.6	-	58.5	-7.9
08:00 PM - 09:00 PM	63.7	61.9	59.0	-	58.3	0.7
09:00 PM - 10:00 PM	60.1	62.1	n/a	-	58.8	-
10:00 PM - 10:05 PM	59.1	60.1	-	n/a	58.3	-
10:05 PM - 10:10 PM	62.1	61.9	-	51.6	58.7	-7.1
10:10 PM - 10:15 PM	60.3	60.6	-	n/a	59.0	-
10:15 PM - 10:20 PM	59.7	61.1	-	n/a	58.9	-
10:20 PM - 10:25 PM	59.9	60.3	-	n/a	58.8	-
10:25 PM - 10:30 PM	59.8	60.6	-	n/a	58.3	-
10:30 PM - 10:35 PM	59.7	60.5	-	n/a	58.3	-
10:35 PM - 10:40 PM	59.5	61.3	-	n/a	58.1	-
10:40 PM - 10:45 PM	59.7	60.1	-	n/a	57.4	-
10:45 PM - 10:50 PM	60.1	60.4	-	n/a	58.6	-
10:50 PM - 10:55 PM	60.0	60.9	-	n/a	57.9	-
10:55 PM - 11:00 PM	60.4	60.1	-	51.6	58.5	-6.9
11:00 PM - 11:05 PM	59.6	60.7	-	n/a	59.0	-
11:05 PM - 11:10 PM	59.8	59.5	-	51.0	57.8	-6.8
11:10 PM - 11:15 PM	59.6	60.8	-	n/a	57.9	-
11:15 PM - 11:20 PM	58.2	60.0	-	n/a	57.8	-
11:20 PM - 11:25 PM	59.1	59.5	-	n/a	57.9	-
11:25 PM - 11:30 PM	59.3	60.6	-	n/a	58.3	-
11:30 PM - 11:35 PM	59.3	60.3	-	n/a	58.1	-
11:35 PM - 11:40 PM	59.4	60.1	-	n/a	58.3	-
11:40 PM - 11:45 PM	59.5	61.0	-	n/a	58.9	-
11:45 PM - 11:50 PM	58.7	60.2	-	n/a	58.6	-
11:50 PM - 11:55 PM	59.0	60.5	-	n/a	58.2	-
11:55 PM - 12:00 AM	60.6	60.3	-	51.8	58.8	-7.0
12:00 AM - 12:05 AM	59.7	61.4	-	n/a	59.4	-
12:05 AM - 12:10 AM	60.4	61.5	-	n/a	59.1	-
12:10 AM - 12:15 AM	60.7	61.7	-	n/a	59.3	-
12:15 AM - 12:20 AM	58.9	61.9	-	n/a	59.4	-
12:20 AM - 12:25 AM	58.8	59.9	-	n/a	58.3	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551080-1

Sample No. 25114636-6
Parameter เสียงรบกวน
Location ป่านขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	58.2	60.2	-	n/a	58.7	-
12:30 AM - 12:35 AM	58.6	59.1	-	n/a	57.4	-
12:35 AM - 12:40 AM	57.9	59.2	-	n/a	56.8	-
12:40 AM - 12:45 AM	57.6	58.9	-	n/a	57.0	-
12:45 AM - 12:50 AM	58.7	58.8	-	n/a	57.1	-
12:50 AM - 12:55 AM	57.9	59.7	-	n/a	57.7	-
12:55 AM - 01:00 AM	59.7	59.1	-	53.8	56.9	-3.1
01:00 AM - 01:05 AM	59.0	62.0	-	n/a	57.3	-
01:05 AM - 01:10 AM	60.4	60.8	-	n/a	57.6	-
01:10 AM - 01:15 AM	57.9	60.6	-	n/a	57.5	-
01:15 AM - 01:20 AM	58.7	59.0	-	n/a	56.6	-
01:20 AM - 01:25 AM	61.6	59.2	-	60.9	57.2	3.7
01:25 AM - 01:30 AM	60.7	62.1	-	n/a	56.1	-
01:30 AM - 01:35 AM	58.0	61.1	-	n/a	57.2	-
01:35 AM - 01:40 AM	57.4	58.4	-	n/a	56.2	-
01:40 AM - 01:45 AM	57.7	58.8	-	n/a	56.6	-
01:45 AM - 01:50 AM	58.5	58.6	-	n/a	56.4	-
01:50 AM - 01:55 AM	58.9	59.4	-	n/a	56.6	-
01:55 AM - 02:00 AM	60.8	60.3	-	54.2	57.7	-3.5
02:00 AM - 02:05 AM	69.1	58.7	-	71.7	56.5	15.2
02:05 AM - 02:10 AM	59.0	62.7	-	n/a	56.6	-
02:10 AM - 02:15 AM	58.7	59.7	-	n/a	56.7	-
02:15 AM - 02:20 AM	57.8	58.6	-	n/a	55.7	-
02:20 AM - 02:25 AM	59.4	59.1	-	50.6	56.6	-6.0
02:25 AM - 02:30 AM	58.3	60.0	-	n/a	57.5	-
02:30 AM - 02:35 AM	57.9	58.9	-	n/a	56.4	-
02:35 AM - 02:40 AM	59.0	59.1	-	n/a	56.4	-
02:40 AM - 02:45 AM	59.6	59.7	-	n/a	57.1	-
02:45 AM - 02:50 AM	58.2	59.2	-	n/a	56.5	-
02:50 AM - 02:55 AM	58.3	59.1	-	n/a	56.5	-
02:55 AM - 03:00 AM	57.5	59.2	-	n/a	57.4	-
03:00 AM - 03:05 AM	58.4	58.5	-	n/a	56.1	-
03:05 AM - 03:10 AM	58.7	59.5	-	n/a	57.5	-
03:10 AM - 03:15 AM	57.6	60.0	-	n/a	57.2	-
03:15 AM - 03:20 AM	58.0	58.4	-	n/a	56.6	-
03:20 AM - 03:25 AM	57.8	59.1	-	n/a	57.2	-
03:25 AM - 03:30 AM	57.6	58.8	-	n/a	56.9	-
03:30 AM - 03:35 AM	58.4	58.3	-	45.0	56.5	-11.5
03:35 AM - 03:40 AM	58.4	59.3	-	n/a	56.9	-
03:40 AM - 03:45 AM	58.4	58.8	-	n/a	56.4	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551080-1

Sample No. 25114636-6
Parameter เสียงรบกวน
Location ป่านขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	58.6	59.3	-	n/a	57.1	-
03:50 AM - 03:55 AM	57.9	60.2	-	n/a	57.0	-
03:55 AM - 04:00 AM	59.6	58.5	-	56.1	56.1	0.0
04:00 AM - 04:05 AM	58.3	60.5	-	n/a	57.5	-
04:05 AM - 04:10 AM	58.0	58.4	-	n/a	56.4	-
04:10 AM - 04:15 AM	58.4	59.2	-	n/a	57.2	-
04:15 AM - 04:20 AM	57.6	59.0	-	n/a	56.3	-
04:20 AM - 04:25 AM	58.0	58.1	-	n/a	56.2	-
04:25 AM - 04:30 AM	57.9	58.6	-	n/a	56.3	-
04:30 AM - 04:35 AM	58.3	59.2	-	n/a	57.3	-
04:35 AM - 04:40 AM	58.2	58.6	-	n/a	56.7	-
04:40 AM - 04:45 AM	59.0	59.1	-	n/a	57.1	-
04:45 AM - 04:50 AM	57.7	60.2	-	n/a	58.0	-
04:50 AM - 04:55 AM	58.3	58.1	-	47.8	55.9	-8.1
04:55 AM - 05:00 AM	58.6	59.5	-	n/a	57.0	-
05:00 AM - 05:05 AM	58.7	59.3	-	n/a	57.7	-
05:05 AM - 05:10 AM	58.1	60.1	-	n/a	57.7	-
05:10 AM - 05:15 AM	67.4	59.9	-	69.5	56.8	12.7
05:15 AM - 05:20 AM	59.2	66.6	-	n/a	57.5	-
05:20 AM - 05:25 AM	58.6	60.6	-	n/a	57.2	-
05:25 AM - 05:30 AM	58.4	59.9	-	n/a	57.9	-
05:30 AM - 05:35 AM	59.0	59.9	-	n/a	57.4	-
05:35 AM - 05:40 AM	58.6	59.6	-	n/a	57.4	-
05:40 AM - 05:45 AM	59.2	59.8	-	n/a	57.8	-
05:45 AM - 05:50 AM	60.5	61.8	-	n/a	58.0	-
05:50 AM - 05:55 AM	60.2	60.5	-	n/a	58.8	-
05:55 AM - 06:00 AM	60.6	60.3	-	51.8	58.5	-6.7
06:00 AM - 07:00 AM	60.6	62.3	n/a	-	59.4	-
07:00 AM - 08:00 AM	59.9	61.4	n/a	-	59.1	-
08:00 AM - 09:00 AM	58.7	60.3	n/a	-	57.6	-
09:00 AM - 10:00 AM	60.1	60.2	n/a	-	57.5	-
10:00 AM - 11:00 AM	59.0	63.8	n/a	-	57.5	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 07-08 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-6 วันที่ตรวจวัด 07-08 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551081-1

Sample No. 25114636-7
Parameter เสียงรบกวน
Location บ้านซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	59.1	59.7	n/a	-	57.6	-
12:00 PM - 01:00 PM	61.9	59.5	58.2	-	57.9	0.3
01:00 PM - 02:00 PM	58.5	59.3	n/a	-	56.8	-
02:00 PM - 03:00 PM	58.4	59.3	n/a	-	57.2	-
03:00 PM - 04:00 PM	58.4	59.2	n/a	-	58.4	-
04:00 PM - 05:00 PM	59.8	60.6	n/a	-	58.4	-
05:00 PM - 06:00 PM	60.3	61.6	n/a	-	58.6	-
06:00 PM - 07:00 PM	60.0	61.0	n/a	-	58.5	-
07:00 PM - 08:00 PM	60.7	63.0	n/a	-	58.5	-
08:00 PM - 09:00 PM	61.1	61.0	44.7	-	58.3	-13.6
09:00 PM - 10:00 PM	59.1	59.9	n/a	-	58.8	-
10:00 PM - 10:05 PM	59.3	60.1	-	n/a	58.3	-
10:05 PM - 10:10 PM	59.6	59.9	-	n/a	58.7	-
10:10 PM - 10:15 PM	58.7	60.4	-	n/a	59.0	-
10:15 PM - 10:20 PM	59.4	59.3	-	46.0	58.9	-12.9
10:20 PM - 10:25 PM	59.9	60.4	-	n/a	58.8	-
10:25 PM - 10:30 PM	58.8	60.7	-	n/a	58.3	-
10:30 PM - 10:35 PM	59.3	59.8	-	n/a	58.3	-
10:35 PM - 10:40 PM	58.9	60.3	-	n/a	58.1	-
10:40 PM - 10:45 PM	59.5	59.6	-	n/a	57.4	-
10:45 PM - 10:50 PM	59.3	60.4	-	n/a	58.6	-
10:50 PM - 10:55 PM	58.5	60.0	-	n/a	57.9	-
10:55 PM - 11:00 PM	59.0	59.7	-	n/a	58.5	-
11:00 PM - 11:05 PM	59.8	59.8	-	n/a	59.0	-
11:05 PM - 11:10 PM	59.2	60.9	-	n/a	57.8	-
11:10 PM - 11:15 PM	59.9	60.5	-	n/a	57.9	-
11:15 PM - 11:20 PM	58.5	61.0	-	n/a	57.8	-
11:20 PM - 11:25 PM	58.6	59.6	-	n/a	57.9	-
11:25 PM - 11:30 PM	59.1	59.8	-	n/a	58.3	-
11:30 PM - 11:35 PM	60.3	60.5	-	n/a	58.1	-
11:35 PM - 11:40 PM	60.4	61.3	-	n/a	58.3	-
11:40 PM - 11:45 PM	59.5	61.3	-	n/a	58.9	-
11:45 PM - 11:50 PM	59.3	60.7	-	n/a	58.6	-
11:50 PM - 11:55 PM	58.3	60.2	-	n/a	58.2	-
11:55 PM - 12:00 AM	60.0	58.8	-	56.8	58.8	-2.0
12:00 AM - 12:05 AM	58.5	61.6	-	n/a	59.4	-
12:05 AM - 12:10 AM	59.8	59.2	-	53.9	59.1	-5.2
12:10 AM - 12:15 AM	59.1	60.7	-	n/a	59.3	-
12:15 AM - 12:20 AM	58.7	59.8	-	n/a	59.4	-
12:20 AM - 12:25 AM	58.9	59.6	-	n/a	58.3	-

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551081-1

Sample No. 25114636-7
Parameter เสียงรบกวน
Location บ้านซับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	58.1	59.9	-	n/a	58.7	-
12:30 AM - 12:35 AM	58.4	58.9	-	n/a	57.4	-
12:35 AM - 12:40 AM	58.6	59.5	-	n/a	56.8	-
12:40 AM - 12:45 AM	58.4	59.7	-	n/a	57.0	-
12:45 AM - 12:50 AM	58.1	59.3	-	n/a	57.1	-
12:50 AM - 12:55 AM	58.2	59.2	-	n/a	57.7	-
12:55 AM - 01:00 AM	58.7	59.4	-	n/a	56.9	-
01:00 AM - 01:05 AM	58.6	59.4	-	n/a	57.3	-
01:05 AM - 01:10 AM	59.0	59.7	-	n/a	57.6	-
01:10 AM - 01:15 AM	59.2	60.0	-	n/a	57.5	-
01:15 AM - 01:20 AM	59.0	59.8	-	n/a	56.6	-
01:20 AM - 01:25 AM	57.6	60.0	-	n/a	57.2	-
01:25 AM - 01:30 AM	58.2	58.6	-	n/a	56.1	-
01:30 AM - 01:35 AM	58.6	59.1	-	n/a	57.2	-
01:35 AM - 01:40 AM	58.6	59.7	-	n/a	56.2	-
01:40 AM - 01:45 AM	59.0	59.2	-	n/a	56.6	-
01:45 AM - 01:50 AM	58.7	59.7	-	n/a	56.4	-
01:50 AM - 01:55 AM	58.9	59.5	-	n/a	56.6	-
01:55 AM - 02:00 AM	57.6	59.9	-	n/a	57.7	-
02:00 AM - 02:05 AM	58.8	58.4	-	51.2	56.5	-5.3
02:05 AM - 02:10 AM	59.2	59.8	-	n/a	56.6	-
02:10 AM - 02:15 AM	58.1	60.2	-	n/a	56.7	-
02:15 AM - 02:20 AM	58.1	59.1	-	n/a	55.7	-
02:20 AM - 02:25 AM	58.4	59.2	-	n/a	56.6	-
02:25 AM - 02:30 AM	58.0	59.7	-	n/a	57.5	-
02:30 AM - 02:35 AM	58.8	59.2	-	n/a	56.4	-
02:35 AM - 02:40 AM	58.5	60.0	-	n/a	56.4	-
02:40 AM - 02:45 AM	59.1	59.4	-	n/a	57.1	-
02:45 AM - 02:50 AM	59.5	60.3	-	n/a	56.5	-
02:50 AM - 02:55 AM	58.1	62.2	-	n/a	56.5	-
02:55 AM - 03:00 AM	57.9	58.8	-	n/a	57.4	-
03:00 AM - 03:05 AM	58.6	58.9	-	n/a	56.1	-
03:05 AM - 03:10 AM	58.4	59.5	-	n/a	57.5	-
03:10 AM - 03:15 AM	58.8	58.9	-	n/a	57.2	-
03:15 AM - 03:20 AM	66.9	59.5	-	69.0	56.6	12.4
03:20 AM - 03:25 AM	58.1	64.4	-	n/a	57.2	-
03:25 AM - 03:30 AM	65.6	58.7	-	67.6	56.9	10.7
03:30 AM - 03:35 AM	58.2	59.0	-	n/a	56.5	-
03:35 AM - 03:40 AM	59.2	59.1	-	45.8	56.9	-11.1
03:40 AM - 03:45 AM	59.5	60.0	-	n/a	56.4	-

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Approved by

Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551081-1

Sample No. 25114636-7
Parameter เสียงรบกวน
Location บ่านขับบอน (GPS 47P 078132, 1619178)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 01022262

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	57.8	60.7	-	n/a	57.1	-
03:50 AM - 03:55 AM	58.9	58.8	-	45.5	57.0	-11.5
03:55 AM - 04:00 AM	58.4	59.6	-	n/a	56.1	-
04:00 AM - 04:05 AM	58.2	59.4	-	n/a	57.5	-
04:05 AM - 04:10 AM	58.3	59.2	-	n/a	56.4	-
04:10 AM - 04:15 AM	58.4	58.8	-	n/a	57.2	-
04:15 AM - 04:20 AM	57.4	59.5	-	n/a	56.3	-
04:20 AM - 04:25 AM	59.5	58.6	-	55.2	56.2	-1.0
04:25 AM - 04:30 AM	58.5	60.5	-	n/a	56.3	-
04:30 AM - 04:35 AM	58.6	59.7	-	n/a	57.3	-
04:35 AM - 04:40 AM	58.6	59.9	-	n/a	56.7	-
04:40 AM - 04:45 AM	59.3	59.7	-	n/a	57.1	-
04:45 AM - 04:50 AM	58.5	60.5	-	n/a	58.0	-
04:50 AM - 04:55 AM	58.3	59.4	-	n/a	55.9	-
04:55 AM - 05:00 AM	59.6	59.7	-	n/a	57.0	-
05:00 AM - 05:05 AM	59.0	61.1	-	n/a	57.7	-
05:05 AM - 05:10 AM	58.2	60.7	-	n/a	57.7	-
05:10 AM - 05:15 AM	58.0	59.7	-	n/a	56.8	-
05:15 AM - 05:20 AM	58.5	59.4	-	n/a	57.5	-
05:20 AM - 05:25 AM	58.5	59.6	-	n/a	57.2	-
05:25 AM - 05:30 AM	58.5	60.2	-	n/a	57.9	-
05:30 AM - 05:35 AM	59.5	59.7	-	n/a	57.4	-
05:35 AM - 05:40 AM	59.4	61.2	-	n/a	57.4	-
05:40 AM - 05:45 AM	59.8	60.3	-	n/a	57.8	-
05:45 AM - 05:50 AM	60.4	60.3	-	47.0	58.0	-11.0
05:50 AM - 05:55 AM	59.3	60.3	-	n/a	58.8	-
05:55 AM - 06:00 AM	60.0	60.0	-	n/a	58.5	-
06:00 AM - 07:00 AM	60.2	61.5	n/a	-	59.4	-
07:00 AM - 08:00 AM	60.1	61.9	n/a	-	59.1	-
08:00 AM - 09:00 AM	59.2	59.7	n/a	-	57.6	-
09:00 AM - 10:00 AM	58.6	63.1	n/a	-	57.5	-
10:00 AM - 11:00 AM	58.2	59.4	n/a	-	57.5	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสถียรทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 08-09 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-7 วันที่ตรวจวัด 08-09 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551082-1

Sample No. 25114636-8
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลหับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	46.8	50.0	n/a	-	45.3	-
12:00 PM - 01:00 PM	48.1	49.6	n/a	-	44.9	-
01:00 PM - 02:00 PM	46.9	48.9	n/a	-	45.2	-
02:00 PM - 03:00 PM	50.4	50.7	n/a	-	45.7	-
03:00 PM - 04:00 PM	50.3	51.1	n/a	-	47.4	-
04:00 PM - 05:00 PM	50.2	51.2	n/a	-	48.3	-
05:00 PM - 06:00 PM	52.5	52.2	40.7	-	49.2	-8.5
06:00 PM - 07:00 PM	51.2	53.7	n/a	-	48.9	-
07:00 PM - 08:00 PM	50.9	51.9	n/a	-	49.7	-
08:00 PM - 09:00 PM	50.3	51.2	n/a	-	49.6	-
09:00 PM - 10:00 PM	53.1	55.1	n/a	-	52.6	-
10:00 PM - 10:05 PM	56.9	59.2	-	n/a	56.6	-
10:05 PM - 10:10 PM	57.4	57.3	-	44.0	55.3	-11.3
10:10 PM - 10:15 PM	58.8	59.4	-	n/a	57.5	-
10:15 PM - 10:20 PM	56.9	59.2	-	n/a	57.5	-
10:20 PM - 10:25 PM	59.3	59.1	-	48.8	57.2	-8.4
10:25 PM - 10:30 PM	59.0	59.4	-	n/a	57.4	-
10:30 PM - 10:35 PM	58.8	59.0	-	n/a	57.3	-
10:35 PM - 10:40 PM	58.7	59.2	-	n/a	57.1	-
10:40 PM - 10:45 PM	59.0	59.7	-	n/a	58.2	-
10:45 PM - 10:50 PM	59.2	58.9	-	50.4	56.9	-6.5
10:50 PM - 10:55 PM	59.0	59.7	-	n/a	57.4	-
10:55 PM - 11:00 PM	59.1	59.0	-	45.7	57.2	-11.5
11:00 PM - 11:05 PM	59.4	58.9	-	52.8	57.0	-4.2
11:05 PM - 11:10 PM	58.0	58.5	-	n/a	56.5	-
11:10 PM - 11:15 PM	58.7	59.4	-	n/a	57.5	-
11:15 PM - 11:20 PM	58.5	59.7	-	n/a	58.1	-
11:20 PM - 11:25 PM	59.2	59.7	-	n/a	58.0	-
11:25 PM - 11:30 PM	60.1	59.0	-	56.6	57.2	-0.6
11:30 PM - 11:35 PM	59.7	58.4	-	56.8	56.8	0.0
11:35 PM - 11:40 PM	59.3	58.5	-	54.6	56.3	-1.7
11:40 PM - 11:45 PM	58.7	57.9	-	54.0	55.7	-1.7
11:45 PM - 11:50 PM	58.7	58.3	-	51.1	56.2	-5.1
11:50 PM - 11:55 PM	57.8	58.3	-	n/a	56.5	-
11:55 PM - 12:00 AM	58.1	58.1	-	n/a	55.8	-
12:00 AM - 12:05 AM	58.1	57.9	-	47.6	55.9	-8.3
12:05 AM - 12:10 AM	57.5	57.9	-	n/a	55.7	-
12:10 AM - 12:15 AM	57.6	57.5	-	44.2	55.3	-11.1
12:15 AM - 12:20 AM	57.6	57.7	-	n/a	55.6	-
12:20 AM - 12:25 AM	57.5	56.8	-	52.2	54.1	-1.9

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260

P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551082-1

Sample No. 25114636-8
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	57.4	56.6	-	52.7	54.8	-2.1
12:30 AM - 12:35 AM	56.8	56.0	-	52.1	53.9	-1.8
12:35 AM - 12:40 AM	57.1	55.5	-	55.0	53.3	1.7
12:40 AM - 12:45 AM	55.0	55.5	-	n/a	53.2	-
12:45 AM - 12:50 AM	53.8	55.1	-	n/a	51.9	-
12:50 AM - 12:55 AM	54.1	54.4	-	n/a	52.2	-
12:55 AM - 01:00 AM	54.0	54.4	-	n/a	51.1	-
01:00 AM - 01:05 AM	53.1	54.6	-	n/a	49.6	-
01:05 AM - 01:10 AM	54.5	53.5	-	50.6	49.1	1.5
01:10 AM - 01:15 AM	53.7	53.5	-	43.2	50.9	-7.7
01:15 AM - 01:20 AM	53.2	55.3	-	n/a	50.0	-
01:20 AM - 01:25 AM	52.0	53.8	-	n/a	51.2	-
01:25 AM - 01:30 AM	54.2	54.3	-	n/a	47.2	-
01:30 AM - 01:35 AM	54.2	52.7	-	51.9	48.1	3.8
01:35 AM - 01:40 AM	54.5	51.5	-	54.5	48.0	6.5
01:40 AM - 01:45 AM	52.6	51.0	-	50.5	47.6	2.9
01:45 AM - 01:50 AM	51.1	50.0	-	47.6	47.4	0.2
01:50 AM - 01:55 AM	51.3	49.9	-	48.7	47.7	1.0
01:55 AM - 02:00 AM	50.6	49.5	-	47.1	47.2	-0.1
02:00 AM - 02:05 AM	50.8	50.7	-	37.4	47.6	-10.2
02:05 AM - 02:10 AM	50.4	50.7	-	n/a	46.1	-
02:10 AM - 02:15 AM	50.9	51.5	-	n/a	48.2	-
02:15 AM - 02:20 AM	51.4	50.1	-	48.5	46.5	2.0
02:20 AM - 02:25 AM	50.3	49.6	-	45.0	46.2	-1.2
02:25 AM - 02:30 AM	50.1	49.1	-	46.2	45.7	0.5
02:30 AM - 02:35 AM	50.1	48.8	-	47.2	45.5	1.7
02:35 AM - 02:40 AM	48.0	49.3	-	n/a	45.5	-
02:40 AM - 02:45 AM	49.1	48.1	-	45.2	46.0	-0.8
02:45 AM - 02:50 AM	47.6	47.2	-	40.0	46.0	-6.0
02:50 AM - 02:55 AM	48.5	53.2	-	n/a	46.2	-
02:55 AM - 03:00 AM	46.9	48.4	-	n/a	46.4	-
03:00 AM - 03:05 AM	47.5	48.1	-	n/a	46.3	-
03:05 AM - 03:10 AM	53.0	49.7	-	53.3	47.3	6.0
03:10 AM - 03:15 AM	48.1	50.8	-	n/a	49.7	-
03:15 AM - 03:20 AM	47.1	49.6	-	n/a	48.2	-
03:20 AM - 03:25 AM	47.4	48.1	-	n/a	47.3	-
03:25 AM - 03:30 AM	48.0	48.3	-	n/a	47.1	-
03:30 AM - 03:35 AM	46.6	49.1	-	n/a	47.5	-
03:35 AM - 03:40 AM	47.0	49.5	-	n/a	48.0	-
03:40 AM - 03:45 AM	47.7	48.6	-	n/a	47.8	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260

P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551082-1

Sample No. 25114636-8
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	47.9	49.9	-	n/a	48.6	-
03:50 AM - 03:55 AM	47.4	50.1	-	n/a	48.1	-
03:55 AM - 04:00 AM	48.4	49.6	-	n/a	48.6	-
04:00 AM - 04:05 AM	48.9	50.9	-	n/a	48.5	-
04:05 AM - 04:10 AM	48.6	49.4	-	n/a	48.0	-
04:10 AM - 04:15 AM	49.8	57.9	-	n/a	47.7	-
04:15 AM - 04:20 AM	48.1	51.2	-	n/a	48.2	-
04:20 AM - 04:25 AM	58.2	50.4	-	60.4	47.2	13.2
04:25 AM - 04:30 AM	48.4	48.7	-	n/a	46.5	-
04:30 AM - 04:35 AM	51.1	47.9	-	51.3	47.0	4.3
04:35 AM - 04:40 AM	48.3	50.1	-	n/a	47.3	-
04:40 AM - 04:45 AM	47.3	48.6	-	n/a	46.7	-
04:45 AM - 04:50 AM	49.9	47.7	-	48.9	46.4	2.5
04:50 AM - 04:55 AM	48.2	47.1	-	44.7	46.3	-1.6
04:55 AM - 05:00 AM	47.2	51.1	-	n/a	46.8	-
05:00 AM - 05:05 AM	46.9	47.7	-	n/a	46.2	-
05:05 AM - 05:10 AM	50.5	48.8	-	48.6	47.5	1.1
05:10 AM - 05:15 AM	47.7	50.8	-	n/a	47.9	-
05:15 AM - 05:20 AM	48.5	49.6	-	n/a	47.9	-
05:20 AM - 05:25 AM	49.6	50.0	-	n/a	48.0	-
05:25 AM - 05:30 AM	49.1	50.3	-	n/a	48.5	-
05:30 AM - 05:35 AM	48.6	52.2	-	n/a	49.4	-
05:35 AM - 05:40 AM	50.1	54.6	-	n/a	51.4	-
05:40 AM - 05:45 AM	51.4	54.3	-	n/a	52.5	-
05:45 AM - 05:50 AM	52.8	53.0	-	n/a	50.0	-
05:50 AM - 05:55 AM	52.1	51.3	-	47.4	49.5	-2.1
05:55 AM - 06:00 AM	52.3	55.1	-	n/a	49.8	-
06:00 AM - 07:00 AM	50.3	51.2	n/a	-	48.2	-
07:00 AM - 08:00 AM	51.0	51.5	n/a	-	49.0	-
08:00 AM - 09:00 AM	50.8	52.4	n/a	-	49.0	-
09:00 AM - 10:00 AM	49.9	50.7	n/a	-	48.1	-
10:00 AM - 11:00 AM	48.3	49.6	n/a	-	47.0	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 02-03 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-8 วันที่ตรวจวัด 02-03 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551083-1

Sample No. 25114636-9
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	47.2	47.9	n/a	-	44.3	-
12:00 PM - 01:00 PM	49.8	51.2	n/a	-	45.0	-
01:00 PM - 02:00 PM	46.9	49.3	n/a	-	45.2	-
02:00 PM - 03:00 PM	48.6	49.9	n/a	-	45.5	-
03:00 PM - 04:00 PM	49.1	50.6	n/a	-	47.2	-
04:00 PM - 05:00 PM	50.2	51.9	n/a	-	48.7	-
05:00 PM - 06:00 PM	52.3	55.0	n/a	-	50.2	-
06:00 PM - 07:00 PM	51.3	51.8	n/a	-	49.6	-
07:00 PM - 08:00 PM	49.9	51.2	n/a	-	49.9	-
08:00 PM - 09:00 PM	48.5	50.5	n/a	-	49.3	-
09:00 PM - 10:00 PM	49.5	51.5	n/a	-	49.9	-
10:00 PM - 10:05 PM	48.7	57.6	-	n/a	51.1	-
10:05 PM - 10:10 PM	48.7	51.9	-	n/a	51.1	-
10:10 PM - 10:15 PM	56.9	51.9	-	58.2	50.8	7.4
10:15 PM - 10:20 PM	49.1	51.9	-	n/a	50.9	-
10:20 PM - 10:25 PM	49.4	52.2	-	n/a	51.2	-
10:25 PM - 10:30 PM	50.1	51.7	-	n/a	50.5	-
10:30 PM - 10:35 PM	49.5	50.9	-	n/a	50.1	-
10:35 PM - 10:40 PM	49.4	51.4	-	n/a	50.3	-
10:40 PM - 10:45 PM	48.5	51.4	-	n/a	50.4	-
10:45 PM - 10:50 PM	48.5	51.7	-	n/a	50.5	-
10:50 PM - 10:55 PM	49.4	51.4	-	n/a	49.9	-
10:55 PM - 11:00 PM	50.0	52.7	-	n/a	50.1	-
11:00 PM - 11:05 PM	49.3	50.5	-	n/a	49.1	-
11:05 PM - 11:10 PM	50.2	50.4	-	n/a	49.2	-
11:10 PM - 11:15 PM	48.7	53.9	-	n/a	48.8	-
11:15 PM - 11:20 PM	49.4	50.1	-	n/a	49.1	-
11:20 PM - 11:25 PM	53.0	50.3	-	52.7	49.0	3.7
11:25 PM - 11:30 PM	50.1	50.8	-	n/a	49.4	-
11:30 PM - 11:35 PM	48.8	50.3	-	n/a	49.2	-
11:35 PM - 11:40 PM	48.5	51.8	-	n/a	50.1	-
11:40 PM - 11:45 PM	48.5	51.8	-	n/a	50.9	-
11:45 PM - 11:50 PM	49.0	51.8	-	n/a	50.8	-
11:50 PM - 11:55 PM	49.1	50.7	-	n/a	49.7	-
11:55 PM - 12:00 AM	48.3	50.5	-	n/a	48.7	-
12:00 AM - 12:05 AM	48.1	50.0	-	n/a	48.8	-
12:05 AM - 12:10 AM	48.2	50.9	-	n/a	49.6	-
12:10 AM - 12:15 AM	48.4	50.5	-	n/a	49.6	-
12:15 AM - 12:20 AM	49.5	50.7	-	n/a	49.7	-
12:20 AM - 12:25 AM	49.2	50.3	-	n/a	48.9	-

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551083-1

Sample No. 25114636-9
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	48.8	50.0	-	n/a	49.2	-
12:30 AM - 12:35 AM	48.7	50.1	-	n/a	49.0	-
12:35 AM - 12:40 AM	48.2	50.2	-	n/a	49.2	-
12:40 AM - 12:45 AM	48.2	49.8	-	n/a	48.6	-
12:45 AM - 12:50 AM	48.3	50.2	-	n/a	49.2	-
12:50 AM - 12:55 AM	48.5	48.7	-	n/a	47.7	-
12:55 AM - 01:00 AM	48.3	48.8	-	n/a	47.8	-
01:00 AM - 01:05 AM	47.8	49.2	-	n/a	47.4	-
01:05 AM - 01:10 AM	48.2	48.8	-	n/a	47.9	-
01:10 AM - 01:15 AM	47.8	48.5	-	n/a	47.7	-
01:15 AM - 01:20 AM	47.6	52.1	-	n/a	48.1	-
01:20 AM - 01:25 AM	47.2	50.7	-	n/a	49.7	-
01:25 AM - 01:30 AM	51.3	50.4	-	47.0	48.1	-1.1
01:30 AM - 01:35 AM	48.1	51.2	-	n/a	50.5	-
01:35 AM - 01:40 AM	46.9	50.7	-	n/a	50.2	-
01:40 AM - 01:45 AM	47.4	50.6	-	n/a	50.0	-
01:45 AM - 01:50 AM	46.7	49.4	-	n/a	48.2	-
01:50 AM - 01:55 AM	46.2	50.4	-	n/a	49.7	-
01:55 AM - 02:00 AM	47.0	50.5	-	n/a	49.1	-
02:00 AM - 02:05 AM	47.3	50.3	-	n/a	48.6	-
02:05 AM - 02:10 AM	47.3	49.2	-	n/a	48.2	-
02:10 AM - 02:15 AM	48.4	49.4	-	n/a	48.5	-
02:15 AM - 02:20 AM	47.3	49.3	-	n/a	48.4	-
02:20 AM - 02:25 AM	47.4	49.5	-	n/a	48.4	-
02:25 AM - 02:30 AM	47.6	58.4	-	n/a	48.2	-
02:30 AM - 02:35 AM	47.8	48.7	-	n/a	47.2	-
02:35 AM - 02:40 AM	58.9	50.9	-	61.2	50.1	11.1
02:40 AM - 02:45 AM	46.5	51.1	-	n/a	50.4	-
02:45 AM - 02:50 AM	47.8	51.5	-	n/a	50.7	-
02:50 AM - 02:55 AM	46.9	51.3	-	n/a	50.3	-
02:55 AM - 03:00 AM	47.3	51.3	-	n/a	50.3	-
03:00 AM - 03:05 AM	47.2	49.8	-	n/a	48.2	-
03:05 AM - 03:10 AM	47.4	49.5	-	n/a	48.5	-
03:10 AM - 03:15 AM	46.8	50.3	-	n/a	49.0	-
03:15 AM - 03:20 AM	46.9	50.3	-	n/a	49.4	-
03:20 AM - 03:25 AM	47.5	51.6	-	n/a	50.6	-
03:25 AM - 03:30 AM	46.5	50.6	-	n/a	49.8	-
03:30 AM - 03:35 AM	49.2	50.0	-	n/a	49.0	-
03:35 AM - 03:40 AM	46.9	50.2	-	n/a	49.3	-
03:40 AM - 03:45 AM	47.2	49.6	-	n/a	48.3	-

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Approved by

Kanokkorn Anek
Assistant General Manager

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551083-1

Sample No. 25114636-9
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	47.5	50.8	-	n/a	49.9	-
03:50 AM - 03:55 AM	46.4	51.4	-	n/a	49.8	-
03:55 AM - 04:00 AM	48.0	50.7	-	n/a	49.9	-
04:00 AM - 04:05 AM	49.2	50.9	-	n/a	49.1	-
04:05 AM - 04:10 AM	48.1	51.0	-	n/a	49.7	-
04:10 AM - 04:15 AM	48.7	50.4	-	n/a	49.6	-
04:15 AM - 04:20 AM	48.7	51.0	-	n/a	49.4	-
04:20 AM - 04:25 AM	47.8	50.3	-	n/a	48.0	-
04:25 AM - 04:30 AM	48.5	50.8	-	n/a	50.1	-
04:30 AM - 04:35 AM	47.2	50.7	-	n/a	49.9	-
04:35 AM - 04:40 AM	47.5	49.9	-	n/a	48.2	-
04:40 AM - 04:45 AM	47.0	50.1	-	n/a	49.2	-
04:45 AM - 04:50 AM	47.7	51.4	-	n/a	50.0	-
04:50 AM - 04:55 AM	47.9	51.6	-	n/a	50.4	-
04:55 AM - 05:00 AM	49.1	50.9	-	n/a	49.3	-
05:00 AM - 05:05 AM	49.4	52.1	-	n/a	49.9	-
05:05 AM - 05:10 AM	49.1	50.3	-	n/a	48.2	-
05:10 AM - 05:15 AM	50.5	51.5	-	n/a	48.8	-
05:15 AM - 05:20 AM	49.3	50.6	-	n/a	48.9	-
05:20 AM - 05:25 AM	50.5	49.7	-	45.8	48.2	-2.4
05:25 AM - 05:30 AM	49.5	50.4	-	n/a	48.9	-
05:30 AM - 05:35 AM	48.8	53.6	-	n/a	49.0	-
05:35 AM - 05:40 AM	49.5	59.0	-	n/a	54.0	-
05:40 AM - 05:45 AM	51.0	57.4	-	n/a	55.1	-
05:45 AM - 05:50 AM	53.3	53.1	-	42.8	49.2	-6.4
05:50 AM - 05:55 AM	53.3	51.0	-	52.4	49.5	2.9
05:55 AM - 06:00 AM	51.8	51.3	-	45.2	49.1	-3.9
06:00 AM - 07:00 AM	50.0	51.0	n/a	-	48.2	-
07:00 AM - 08:00 AM	51.1	52.1	n/a	-	49.9	-
08:00 AM - 09:00 AM	52.1	54.8	n/a	-	50.7	-
09:00 AM - 10:00 AM	51.6	53.6	n/a	-	49.7	-
10:00 AM - 11:00 AM	50.3	53.8	n/a	-	48.3	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานลักษณะทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 03-04 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-9 วันที่ตรวจวัด 03-04 เมษายน 2569)
3. ก/ล: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551084-1

Sample No. 25114636-10
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	49.1	53.3	n/a	-	48.1	-
12:00 PM - 01:00 PM	49.1	52.0	n/a	-	47.2	-
01:00 PM - 02:00 PM	49.0	51.7	n/a	-	46.3	-
02:00 PM - 03:00 PM	49.9	51.8	n/a	-	46.4	-
03:00 PM - 04:00 PM	49.9	52.3	n/a	-	47.3	-
04:00 PM - 05:00 PM	50.0	51.7	n/a	-	48.3	-
05:00 PM - 06:00 PM	49.8	50.4	n/a	-	48.5	-
06:00 PM - 07:00 PM	52.4	52.1	40.6	-	48.7	-8.1
07:00 PM - 08:00 PM	48.3	49.8	n/a	-	48.8	-
08:00 PM - 09:00 PM	47.6	48.9	n/a	-	47.7	-
09:00 PM - 10:00 PM	46.3	49.6	n/a	-	48.1	-
10:00 PM - 10:05 PM	52.8	48.3	-	53.9	46.7	7.2
10:05 PM - 10:10 PM	46.1	49.7	-	n/a	49.1	-
10:10 PM - 10:15 PM	46.5	50.0	-	n/a	49.1	-
10:15 PM - 10:20 PM	46.6	48.9	-	n/a	48.4	-
10:20 PM - 10:25 PM	46.8	49.1	-	n/a	48.6	-
10:25 PM - 10:30 PM	47.2	50.3	-	n/a	48.9	-
10:30 PM - 10:35 PM	47.5	49.5	-	n/a	48.8	-
10:35 PM - 10:40 PM	46.4	49.7	-	n/a	48.1	-
10:40 PM - 10:45 PM	47.9	50.9	-	n/a	50.1	-
10:45 PM - 10:50 PM	48.2	50.9	-	n/a	49.3	-
10:50 PM - 10:55 PM	48.4	51.5	-	n/a	51.0	-
10:55 PM - 11:00 PM	47.1	55.0	-	n/a	51.1	-
11:00 PM - 11:05 PM	46.5	52.0	-	n/a	51.3	-
11:05 PM - 11:10 PM	47.2	51.7	-	n/a	51.2	-
11:10 PM - 11:15 PM	53.4	51.7	-	51.5	50.9	0.6
11:15 PM - 11:20 PM	47.3	51.6	-	n/a	50.9	-
11:20 PM - 11:25 PM	47.3	51.7	-	n/a	51.1	-
11:25 PM - 11:30 PM	48.0	51.5	-	n/a	50.6	-
11:30 PM - 11:35 PM	47.1	50.7	-	n/a	49.3	-
11:35 PM - 11:40 PM	47.3	51.0	-	n/a	50.4	-
11:40 PM - 11:45 PM	47.5	51.0	-	n/a	50.5	-
11:45 PM - 11:50 PM	48.2	51.2	-	n/a	50.2	-
11:50 PM - 11:55 PM	46.9	50.7	-	n/a	49.9	-
11:55 PM - 12:00 AM	47.1	50.5	-	n/a	49.8	-
12:00 AM - 12:05 AM	47.4	50.9	-	n/a	50.0	-
12:05 AM - 12:10 AM	47.2	50.6	-	n/a	49.8	-
12:10 AM - 12:15 AM	48.3	49.7	-	n/a	48.3	-
12:15 AM - 12:20 AM	46.9	49.0	-	n/a	48.0	-
12:20 AM - 12:25 AM	48.3	48.3	-	n/a	47.4	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551084-1

Sample No. 25114636-10
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	47.7	49.9	-	n/a	48.1	-
12:30 AM - 12:35 AM	47.4	50.1	-	n/a	48.2	-
12:35 AM - 12:40 AM	47.3	49.4	-	n/a	47.6	-
12:40 AM - 12:45 AM	48.2	49.5	-	n/a	48.0	-
12:45 AM - 12:50 AM	47.0	49.8	-	n/a	48.0	-
12:50 AM - 12:55 AM	47.1	48.7	-	n/a	47.8	-
12:55 AM - 01:00 AM	49.5	49.2	-	40.7	47.6	-6.9
01:00 AM - 01:05 AM	47.5	48.8	-	n/a	47.5	-
01:05 AM - 01:10 AM	47.6	49.9	-	n/a	48.0	-
01:10 AM - 01:15 AM	47.7	50.2	-	n/a	48.5	-
01:15 AM - 01:20 AM	48.5	58.6	-	n/a	47.7	-
01:20 AM - 01:25 AM	49.3	48.5	-	44.6	47.5	-2.9
01:25 AM - 01:30 AM	57.9	48.3	-	60.4	47.2	13.2
01:30 AM - 01:35 AM	48.1	47.8	-	39.3	46.9	-7.6
01:35 AM - 01:40 AM	47.2	48.4	-	n/a	46.7	-
01:40 AM - 01:45 AM	47.2	47.8	-	n/a	47.0	-
01:45 AM - 01:50 AM	47.9	47.8	-	34.5	46.9	-12.4
01:50 AM - 01:55 AM	47.0	48.4	-	n/a	47.4	-
01:55 AM - 02:00 AM	46.7	48.6	-	n/a	47.5	-
02:00 AM - 02:05 AM	47.6	49.3	-	n/a	47.5	-
02:05 AM - 02:10 AM	47.4	49.1	-	n/a	47.9	-
02:10 AM - 02:15 AM	48.5	48.7	-	n/a	47.5	-
02:15 AM - 02:20 AM	47.8	49.1	-	n/a	47.5	-
02:20 AM - 02:25 AM	47.4	50.9	-	n/a	48.4	-
02:25 AM - 02:30 AM	48.2	50.1	-	n/a	47.9	-
02:30 AM - 02:35 AM	49.9	51.3	-	n/a	47.1	-
02:35 AM - 02:40 AM	49.9	48.8	-	46.4	46.9	-0.5
02:40 AM - 02:45 AM	50.2	48.6	-	48.1	47.2	0.9
02:45 AM - 02:50 AM	47.5	49.0	-	n/a	47.7	-
02:50 AM - 02:55 AM	47.5	49.2	-	n/a	47.1	-
02:55 AM - 03:00 AM	48.1	48.4	-	n/a	47.1	-
03:00 AM - 03:05 AM	48.5	47.9	-	42.6	46.7	-4.1
03:05 AM - 03:10 AM	47.7	47.6	-	34.3	46.5	-12.2
03:10 AM - 03:15 AM	47.6	48.0	-	n/a	46.8	-
03:15 AM - 03:20 AM	46.3	47.8	-	n/a	46.4	-
03:20 AM - 03:25 AM	46.8	48.0	-	n/a	46.9	-
03:25 AM - 03:30 AM	47.2	48.1	-	n/a	46.9	-
03:30 AM - 03:35 AM	46.7	47.9	-	n/a	46.6	-
03:35 AM - 03:40 AM	47.7	47.5	-	37.2	46.7	-9.5
03:40 AM - 03:45 AM	47.0	47.4	-	n/a	46.4	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551084-1

Sample No. 25114636-10
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	46.7	46.9	-	n/a	45.6	-
03:50 AM - 03:55 AM	46.5	47.2	-	n/a	45.5	-
03:55 AM - 04:00 AM	46.3	50.7	-	n/a	45.7	-
04:00 AM - 04:05 AM	47.0	48.9	-	n/a	46.1	-
04:05 AM - 04:10 AM	49.6	48.3	-	46.7	46.6	0.1
04:10 AM - 04:15 AM	49.6	50.3	-	n/a	46.3	-
04:15 AM - 04:20 AM	48.1	47.5	-	42.2	46.0	-3.8
04:20 AM - 04:25 AM	50.7	48.1	-	50.2	46.0	4.2
04:25 AM - 04:30 AM	48.1	47.4	-	42.8	46.1	-3.3
04:30 AM - 04:35 AM	48.9	47.2	-	47.0	46.1	0.9
04:35 AM - 04:40 AM	47.3	47.3	-	n/a	45.5	-
04:40 AM - 04:45 AM	47.1	46.7	-	39.5	45.8	-6.3
04:45 AM - 04:50 AM	48.6	48.3	-	39.8	46.1	-6.3
04:50 AM - 04:55 AM	47.0	48.1	-	n/a	45.7	-
04:55 AM - 05:00 AM	48.6	49.5	-	n/a	45.9	-
05:00 AM - 05:05 AM	48.6	46.5	-	47.4	44.7	2.7
05:05 AM - 05:10 AM	50.1	47.4	-	49.8	45.8	4.0
05:10 AM - 05:15 AM	46.8	47.4	-	n/a	45.5	-
05:15 AM - 05:20 AM	47.6	46.3	-	44.7	44.9	-0.2
05:20 AM - 05:25 AM	47.6	49.0	-	n/a	45.4	-
05:25 AM - 05:30 AM	47.0	49.9	-	n/a	46.0	-
05:30 AM - 05:35 AM	48.6	51.0	-	n/a	46.7	-
05:35 AM - 05:40 AM	50.1	51.6	-	n/a	47.9	-
05:40 AM - 05:45 AM	49.4	53.3	-	n/a	47.1	-
05:45 AM - 05:50 AM	50.2	49.1	-	46.7	45.9	0.8
05:50 AM - 05:55 AM	51.2	47.8	-	51.5	46.3	5.2
05:55 AM - 06:00 AM	51.4	60.3	-	n/a	46.9	-
06:00 AM - 07:00 AM	48.4	48.9	n/a	-	46.1	-
07:00 AM - 08:00 AM	48.9	50.5	n/a	-	47.2	-
08:00 AM - 09:00 AM	51.0	53.8	n/a	-	49.3	-
09:00 AM - 10:00 AM	51.2	53.4	n/a	-	48.9	-
10:00 AM - 11:00 AM	50.7	53.7	n/a	-	48.7	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 04-05 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-10 วันที่ตรวจวัด 04-05 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551085-1

Sample No. 25114636-11
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	50.3	52.6	n/a	-	48.1	-
12:00 PM - 01:00 PM	48.5	53.2	n/a	-	47.1	-
01:00 PM - 02:00 PM	49.4	53.0	n/a	-	47.9	-
02:00 PM - 03:00 PM	50.9	54.2	n/a	-	48.8	-
03:00 PM - 04:00 PM	50.3	53.1	n/a	-	48.7	-
04:00 PM - 05:00 PM	49.2	50.9	n/a	-	48.1	-
05:00 PM - 06:00 PM	50.1	51.3	n/a	-	48.8	-
06:00 PM - 07:00 PM	51.1	52.0	n/a	-	49.4	-
07:00 PM - 08:00 PM	48.8	50.3	n/a	-	49.3	-
08:00 PM - 09:00 PM	48.7	50.5	n/a	-	49.4	-
09:00 PM - 10:00 PM	48.4	50.2	n/a	-	48.2	-
10:00 PM - 10:05 PM	55.0	49.6	-	56.5	48.7	7.8
10:05 PM - 10:10 PM	48.8	49.3	-	n/a	48.8	-
10:10 PM - 10:15 PM	48.5	49.5	-	n/a	48.8	-
10:15 PM - 10:20 PM	48.6	50.5	-	n/a	48.6	-
10:20 PM - 10:25 PM	49.1	49.5	-	n/a	48.2	-
10:25 PM - 10:30 PM	49.6	50.2	-	n/a	48.7	-
10:30 PM - 10:35 PM	49.4	50.5	-	n/a	49.0	-
10:35 PM - 10:40 PM	50.4	49.9	-	43.8	48.6	-4.8
10:40 PM - 10:45 PM	50.2	48.9	-	47.3	48.1	-0.8
10:45 PM - 10:50 PM	48.7	48.8	-	n/a	47.6	-
10:50 PM - 10:55 PM	48.7	49.1	-	n/a	48.2	-
10:55 PM - 11:00 PM	48.1	49.7	-	n/a	48.8	-
11:00 PM - 11:05 PM	47.3	50.0	-	n/a	49.2	-
11:05 PM - 11:10 PM	48.0	50.2	-	n/a	49.4	-
11:10 PM - 11:15 PM	47.7	55.5	-	n/a	48.7	-
11:15 PM - 11:20 PM	48.0	49.0	-	n/a	48.1	-
11:20 PM - 11:25 PM	54.4	49.0	-	55.9	48.2	7.7
11:25 PM - 11:30 PM	47.3	50.1	-	n/a	48.8	-
11:30 PM - 11:35 PM	47.4	50.9	-	n/a	50.3	-
11:35 PM - 11:40 PM	48.3	51.6	-	n/a	50.6	-
11:40 PM - 11:45 PM	48.1	51.3	-	n/a	50.8	-
11:45 PM - 11:50 PM	48.4	51.2	-	n/a	50.6	-
11:50 PM - 11:55 PM	48.3	50.9	-	n/a	49.9	-
11:55 PM - 12:00 AM	47.5	49.0	-	n/a	48.3	-
12:00 AM - 12:05 AM	47.4	49.2	-	n/a	48.4	-
12:05 AM - 12:10 AM	46.6	50.6	-	n/a	49.9	-
12:10 AM - 12:15 AM	47.1	50.3	-	n/a	49.5	-
12:15 AM - 12:20 AM	48.4	50.4	-	n/a	49.4	-
12:20 AM - 12:25 AM	47.9	50.6	-	n/a	49.9	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551085-1

Sample No. 25114636-11
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	47.5	49.8	-	n/a	49.1	-
12:30 AM - 12:35 AM	46.8	47.4	-	n/a	46.4	-
12:35 AM - 12:40 AM	46.4	47.9	-	n/a	47.2	-
12:40 AM - 12:45 AM	47.4	48.2	-	n/a	47.4	-
12:45 AM - 12:50 AM	47.0	47.8	-	n/a	47.0	-
12:50 AM - 12:55 AM	48.2	48.0	-	37.7	47.0	-9.3
12:55 AM - 01:00 AM	47.2	47.8	-	n/a	46.4	-
01:00 AM - 01:05 AM	48.1	47.4	-	42.8	46.7	-3.9
01:05 AM - 01:10 AM	46.9	48.6	-	n/a	47.4	-
01:10 AM - 01:15 AM	47.3	53.4	-	n/a	46.4	-
01:15 AM - 01:20 AM	48.5	47.5	-	44.6	46.7	-2.1
01:20 AM - 01:25 AM	52.7	47.4	-	54.2	46.5	7.7
01:25 AM - 01:30 AM	47.5	47.2	-	38.7	46.4	-7.7
01:30 AM - 01:35 AM	46.9	47.8	-	n/a	46.8	-
01:35 AM - 01:40 AM	47.2	46.8	-	39.6	46.1	-6.5
01:40 AM - 01:45 AM	47.8	47.9	-	n/a	47.0	-
01:45 AM - 01:50 AM	46.9	48.0	-	n/a	47.1	-
01:50 AM - 01:55 AM	48.0	50.4	-	n/a	47.4	-
01:55 AM - 02:00 AM	47.8	49.0	-	n/a	46.7	-
02:00 AM - 02:05 AM	50.8	48.7	-	49.6	46.2	3.4
02:05 AM - 02:10 AM	48.2	47.4	-	43.5	46.3	-2.8
02:10 AM - 02:15 AM	48.5	47.6	-	44.2	46.3	-2.1
02:15 AM - 02:20 AM	47.0	47.5	-	n/a	46.7	-
02:20 AM - 02:25 AM	47.2	61.2	-	n/a	47.0	-
02:25 AM - 02:30 AM	46.5	49.1	-	n/a	46.8	-
02:30 AM - 02:35 AM	49.4	47.6	-	47.7	46.9	0.8
02:35 AM - 02:40 AM	47.7	48.0	-	n/a	46.9	-
02:40 AM - 02:45 AM	46.6	47.7	-	n/a	46.7	-
02:45 AM - 02:50 AM	47.0	47.7	-	n/a	46.6	-
02:50 AM - 02:55 AM	46.7	47.3	-	n/a	46.1	-
02:55 AM - 03:00 AM	47.1	46.2	-	42.8	45.2	-2.4
03:00 AM - 03:05 AM	46.9	50.3	-	n/a	46.1	-
03:05 AM - 03:10 AM	48.1	47.7	-	40.5	46.2	-5.7
03:10 AM - 03:15 AM	53.3	47.5	-	55.0	46.4	8.6
03:15 AM - 03:20 AM	47.6	48.9	-	n/a	46.9	-
03:20 AM - 03:25 AM	46.9	48.8	-	n/a	47.8	-
03:25 AM - 03:30 AM	47.7	50.2	-	n/a	47.8	-
03:30 AM - 03:35 AM	48.1	49.3	-	n/a	47.6	-
03:35 AM - 03:40 AM	49.8	48.5	-	46.9	47.4	-0.5
03:40 AM - 03:45 AM	48.0	48.8	-	n/a	46.8	-

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Approved by

Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551085-1

Sample No. 25114636-11
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	47.6	48.2	-	n/a	45.5	-
03:50 AM - 03:55 AM	49.4	47.0	-	48.7	45.6	3.1
03:55 AM - 04:00 AM	46.9	45.8	-	43.4	45.0	-1.6
04:00 AM - 04:05 AM	46.4	48.4	-	n/a	45.0	-
04:05 AM - 04:10 AM	46.1	47.2	-	n/a	45.7	-
04:10 AM - 04:15 AM	48.5	47.1	-	45.9	45.9	0.0
04:15 AM - 04:20 AM	46.8	49.0	-	n/a	47.0	-
04:20 AM - 04:25 AM	47.7	47.9	-	n/a	46.7	-
04:25 AM - 04:30 AM	48.9	54.4	-	n/a	47.0	-
04:30 AM - 04:35 AM	48.0	48.9	-	n/a	47.3	-
04:35 AM - 04:40 AM	53.8	49.3	-	54.9	47.6	7.3
04:40 AM - 04:45 AM	49.0	49.2	-	n/a	47.1	-
04:45 AM - 04:50 AM	49.4	49.8	-	n/a	48.0	-
04:50 AM - 04:55 AM	48.8	50.2	-	n/a	47.8	-
04:55 AM - 05:00 AM	49.2	52.7	-	n/a	48.6	-
05:00 AM - 05:05 AM	49.5	49.4	-	36.1	48.0	-11.9
05:05 AM - 05:10 AM	52.1	49.5	-	51.6	47.8	3.8
05:10 AM - 05:15 AM	48.7	48.6	-	35.3	47.5	-12.2
05:15 AM - 05:20 AM	48.8	48.5	-	40.0	47.1	-7.1
05:20 AM - 05:25 AM	47.7	49.9	-	n/a	48.0	-
05:25 AM - 05:30 AM	48.3	51.3	-	n/a	48.3	-
05:30 AM - 05:35 AM	50.0	50.3	-	n/a	47.9	-
05:35 AM - 05:40 AM	50.8	58.7	-	n/a	53.2	-
05:40 AM - 05:45 AM	53.2	50.6	-	52.7	47.9	4.8
05:45 AM - 05:50 AM	50.0	50.1	-	n/a	48.6	-
05:50 AM - 05:55 AM	50.4	50.7	-	n/a	49.0	-
05:55 AM - 06:00 AM	49.7	52.6	-	n/a	48.0	-
06:00 AM - 07:00 AM	50.6	50.7	n/a	-	48.6	-
07:00 AM - 08:00 AM	51.0	53.0	n/a	-	50.0	-
08:00 AM - 09:00 AM	51.5	53.5	n/a	-	50.1	-
09:00 AM - 10:00 AM	51.7	54.4	n/a	-	49.7	-
10:00 AM - 11:00 AM	50.2	52.6	n/a	-	48.7	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 05-06 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-11 วันที่ตรวจวัด 05-06 เมษายน 2569)
3. ก/ล: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551086-1

Sample No. 25114636-12
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	49.3	52.6	n/a	-	47.1	-
12:00 PM - 01:00 PM	48.9	52.5	n/a	-	46.7	-
01:00 PM - 02:00 PM	48.2	51.3	n/a	-	46.2	-
02:00 PM - 03:00 PM	49.2	51.0	n/a	-	46.5	-
03:00 PM - 04:00 PM	49.7	51.6	n/a	-	47.4	-
04:00 PM - 05:00 PM	49.0	51.4	n/a	-	47.7	-
05:00 PM - 06:00 PM	49.7	51.3	n/a	-	48.8	-
06:00 PM - 07:00 PM	53.5	52.3	47.3	-	50.4	-3.1
07:00 PM - 08:00 PM	50.1	51.7	n/a	-	50.0	-
08:00 PM - 09:00 PM	53.5	54.0	n/a	-	52.4	-
09:00 PM - 10:00 PM	50.9	53.0	n/a	-	51.5	-
10:00 PM - 10:05 PM	47.7	49.4	-	n/a	48.5	-
10:05 PM - 10:10 PM	50.9	49.7	-	47.7	49.2	-1.5
10:10 PM - 10:15 PM	47.7	49.9	-	n/a	49.2	-
10:15 PM - 10:20 PM	47.8	50.4	-	n/a	49.6	-
10:20 PM - 10:25 PM	48.1	50.1	-	n/a	49.3	-
10:25 PM - 10:30 PM	49.1	50.7	-	n/a	49.7	-
10:30 PM - 10:35 PM	48.6	50.5	-	n/a	49.6	-
10:35 PM - 10:40 PM	48.4	50.7	-	n/a	49.6	-
10:40 PM - 10:45 PM	49.0	50.3	-	n/a	49.2	-
10:45 PM - 10:50 PM	49.4	50.9	-	n/a	49.9	-
10:50 PM - 10:55 PM	48.5	54.0	-	n/a	49.9	-
10:55 PM - 11:00 PM	48.6	51.1	-	n/a	48.8	-
11:00 PM - 11:05 PM	52.8	51.2	-	50.7	48.5	2.2
11:05 PM - 11:10 PM	48.1	51.8	-	n/a	51.0	-
11:10 PM - 11:15 PM	48.5	52.6	-	n/a	50.7	-
11:15 PM - 11:20 PM	48.9	52.1	-	n/a	51.0	-
11:20 PM - 11:25 PM	48.6	53.8	-	n/a	52.0	-
11:25 PM - 11:30 PM	48.6	53.5	-	n/a	51.5	-
11:30 PM - 11:35 PM	49.9	52.3	-	n/a	51.2	-
11:35 PM - 11:40 PM	49.8	52.5	-	n/a	51.7	-
11:40 PM - 11:45 PM	48.6	52.8	-	n/a	51.5	-
11:45 PM - 11:50 PM	48.8	53.7	-	n/a	52.6	-
11:50 PM - 11:55 PM	54.3	52.3	-	53.0	51.4	1.6
11:55 PM - 12:00 AM	52.2	51.4	-	47.5	50.8	-3.3
12:00 AM - 12:05 AM	48.4	51.7	-	n/a	51.0	-
12:05 AM - 12:10 AM	46.9	51.4	-	n/a	51.0	-
12:10 AM - 12:15 AM	47.8	51.0	-	n/a	50.4	-
12:15 AM - 12:20 AM	47.7	48.6	-	n/a	46.8	-
12:20 AM - 12:25 AM	47.2	47.6	-	n/a	46.7	-

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Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551086-1

Sample No. 25114636-12
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	46.9	48.2	-	n/a	47.1	-
12:30 AM - 12:35 AM	47.4	48.0	-	n/a	47.0	-
12:35 AM - 12:40 AM	47.8	47.9	-	n/a	47.0	-
12:40 AM - 12:45 AM	47.8	48.1	-	n/a	47.1	-
12:45 AM - 12:50 AM	47.4	48.4	-	n/a	47.4	-
12:50 AM - 12:55 AM	47.6	48.8	-	n/a	47.4	-
12:55 AM - 01:00 AM	47.5	48.2	-	n/a	47.2	-
01:00 AM - 01:05 AM	46.9	47.2	-	n/a	46.3	-
01:05 AM - 01:10 AM	46.0	47.9	-	n/a	46.5	-
01:10 AM - 01:15 AM	46.3	51.1	-	n/a	46.7	-
01:15 AM - 01:20 AM	45.8	47.7	-	n/a	46.3	-
01:20 AM - 01:25 AM	51.0	47.9	-	51.1	46.5	4.6
01:25 AM - 01:30 AM	48.1	47.9	-	37.6	46.8	-9.2
01:30 AM - 01:35 AM	47.5	49.3	-	n/a	47.1	-
01:35 AM - 01:40 AM	47.3	48.6	-	n/a	47.5	-
01:40 AM - 01:45 AM	48.6	49.8	-	n/a	47.8	-
01:45 AM - 01:50 AM	47.8	49.6	-	n/a	48.1	-
01:50 AM - 01:55 AM	49.1	49.1	-	n/a	47.8	-
01:55 AM - 02:00 AM	49.0	48.6	-	41.4	47.2	-5.8
02:00 AM - 02:05 AM	48.0	50.0	-	n/a	48.1	-
02:05 AM - 02:10 AM	48.6	48.4	-	38.1	47.5	-9.4
02:10 AM - 02:15 AM	48.4	48.5	-	n/a	47.4	-
02:15 AM - 02:20 AM	47.2	48.1	-	n/a	47.0	-
02:20 AM - 02:25 AM	47.3	48.1	-	n/a	47.2	-
02:25 AM - 02:30 AM	47.1	48.0	-	n/a	46.7	-
02:30 AM - 02:35 AM	46.7	47.9	-	n/a	46.3	-
02:35 AM - 02:40 AM	47.2	49.4	-	n/a	47.0	-
02:40 AM - 02:45 AM	47.0	49.5	-	n/a	46.3	-
02:45 AM - 02:50 AM	49.0	48.2	-	44.3	46.5	-2.2
02:50 AM - 02:55 AM	47.9	48.4	-	n/a	47.3	-
02:55 AM - 03:00 AM	48.3	48.3	-	n/a	46.9	-
03:00 AM - 03:05 AM	47.9	47.4	-	41.3	46.4	-5.1
03:05 AM - 03:10 AM	47.4	49.3	-	n/a	47.3	-
03:10 AM - 03:15 AM	47.0	49.9	-	n/a	48.2	-
03:15 AM - 03:20 AM	49.1	48.9	-	38.6	47.3	-8.7
03:20 AM - 03:25 AM	49.5	48.2	-	46.6	46.7	-0.1
03:25 AM - 03:30 AM	48.0	48.2	-	n/a	46.9	-
03:30 AM - 03:35 AM	48.0	47.8	-	37.5	46.9	-9.4
03:35 AM - 03:40 AM	47.6	49.0	-	n/a	47.2	-
03:40 AM - 03:45 AM	47.0	48.5	-	n/a	47.1	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551086-1

Sample No. 25114636-12
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	47.7	48.2	-	n/a	47.1	-
03:50 AM - 03:55 AM	47.8	49.4	-	n/a	47.2	-
03:55 AM - 04:00 AM	47.3	47.2	-	33.9	45.9	-12.0
04:00 AM - 04:05 AM	48.7	49.3	-	n/a	46.4	-
04:05 AM - 04:10 AM	46.7	49.3	-	n/a	47.7	-
04:10 AM - 04:15 AM	49.3	49.5	-	n/a	47.0	-
04:15 AM - 04:20 AM	48.9	49.3	-	n/a	47.8	-
04:20 AM - 04:25 AM	48.7	49.6	-	n/a	48.4	-
04:25 AM - 04:30 AM	48.5	57.4	-	n/a	47.9	-
04:30 AM - 04:35 AM	57.5	48.7	-	59.9	47.4	12.5
04:35 AM - 04:40 AM	48.5	49.0	-	n/a	47.6	-
04:40 AM - 04:45 AM	47.6	48.5	-	n/a	47.0	-
04:45 AM - 04:50 AM	47.6	48.1	-	n/a	47.1	-
04:50 AM - 04:55 AM	48.0	47.7	-	39.2	46.4	-7.2
04:55 AM - 05:00 AM	47.2	51.5	-	n/a	47.4	-
05:00 AM - 05:05 AM	47.6	47.7	-	n/a	46.4	-
05:05 AM - 05:10 AM	51.0	47.0	-	51.8	45.9	5.9
05:10 AM - 05:15 AM	47.4	47.7	-	n/a	46.2	-
05:15 AM - 05:20 AM	46.6	49.6	-	n/a	46.2	-
05:20 AM - 05:25 AM	47.4	49.3	-	n/a	46.1	-
05:25 AM - 05:30 AM	48.3	52.4	-	n/a	47.2	-
05:30 AM - 05:35 AM	49.7	52.5	-	n/a	47.0	-
05:35 AM - 05:40 AM	49.0	54.4	-	n/a	48.1	-
05:40 AM - 05:45 AM	50.1	52.8	-	n/a	47.8	-
05:45 AM - 05:50 AM	56.2	51.6	-	57.4	47.1	10.3
05:50 AM - 05:55 AM	51.5	50.5	-	47.6	46.9	0.7
05:55 AM - 06:00 AM	48.0	49.2	-	n/a	47.5	-
06:00 AM - 07:00 AM	49.0	49.7	n/a	-	47.7	-
07:00 AM - 08:00 AM	50.2	52.8	n/a	-	48.9	-
08:00 AM - 09:00 AM	50.4	52.1	n/a	-	48.7	-
09:00 AM - 10:00 AM	50.2	52.3	n/a	-	48.7	-
10:00 AM - 11:00 AM	50.1	52.0	n/a	-	47.7	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 06-07 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-12 วันที่ตรวจวัด 06-07 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551087-1

Sample No. 25114636-13
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	48.0	50.7	n/a	-	46.2	-
12:00 PM - 01:00 PM	47.3	49.4	n/a	-	45.5	-
01:00 PM - 02:00 PM	46.6	50.1	n/a	-	44.6	-
02:00 PM - 03:00 PM	48.4	49.3	n/a	-	44.2	-
03:00 PM - 04:00 PM	49.2	50.2	n/a	-	44.8	-
04:00 PM - 05:00 PM	48.6	50.8	n/a	-	45.0	-
05:00 PM - 06:00 PM	47.5	47.3	34.0	-	45.3	-11.3
06:00 PM - 07:00 PM	49.9	49.0	42.6	-	47.2	-4.6
07:00 PM - 08:00 PM	50.0	51.2	n/a	-	50.0	-
08:00 PM - 09:00 PM	51.4	53.1	n/a	-	51.4	-
09:00 PM - 10:00 PM	52.9	53.6	n/a	-	51.7	-
10:00 PM - 10:05 PM	50.9	54.4	-	n/a	52.6	-
10:05 PM - 10:10 PM	52.7	56.3	-	n/a	52.2	-
10:10 PM - 10:15 PM	55.1	53.6	-	52.8	51.7	1.1
10:15 PM - 10:20 PM	51.9	52.9	-	n/a	51.4	-
10:20 PM - 10:25 PM	51.6	52.7	-	n/a	51.0	-
10:25 PM - 10:30 PM	51.0	53.4	-	n/a	51.8	-
10:30 PM - 10:35 PM	51.1	53.6	-	n/a	51.6	-
10:35 PM - 10:40 PM	52.1	54.2	-	n/a	52.7	-
10:40 PM - 10:45 PM	52.8	54.1	-	n/a	52.0	-
10:45 PM - 10:50 PM	53.0	55.4	-	n/a	53.1	-
10:50 PM - 10:55 PM	53.1	54.2	-	n/a	52.0	-
10:55 PM - 11:00 PM	54.1	54.0	-	40.7	51.4	-10.7
11:00 PM - 11:05 PM	52.8	51.5	-	49.9	50.0	-0.1
11:05 PM - 11:10 PM	52.1	52.4	-	n/a	50.1	-
11:10 PM - 11:15 PM	50.0	56.0	-	n/a	49.7	-
11:15 PM - 11:20 PM	55.4	52.6	-	55.2	49.2	6.0
11:20 PM - 11:25 PM	50.9	53.0	-	n/a	49.0	-
11:25 PM - 11:30 PM	51.1	53.6	-	n/a	49.4	-
11:30 PM - 11:35 PM	51.8	55.0	-	n/a	50.5	-
11:35 PM - 11:40 PM	52.2	55.0	-	n/a	51.9	-
11:40 PM - 11:45 PM	53.2	55.1	-	n/a	52.4	-
11:45 PM - 11:50 PM	53.0	55.2	-	n/a	52.6	-
11:50 PM - 11:55 PM	53.9	54.8	-	n/a	50.8	-
11:55 PM - 12:00 AM	54.3	54.9	-	n/a	51.9	-
12:00 AM - 12:05 AM	53.9	54.6	-	n/a	50.9	-
12:05 AM - 12:10 AM	54.1	55.8	-	n/a	52.7	-
12:10 AM - 12:15 AM	53.2	56.1	-	n/a	53.1	-
12:15 AM - 12:20 AM	54.9	55.7	-	n/a	52.5	-
12:20 AM - 12:25 AM	55.0	55.8	-	n/a	53.6	-

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551087-1

Sample No. 25114636-13
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	54.7	55.2	-	n/a	52.9	-
12:30 AM - 12:35 AM	54.4	56.6	-	n/a	52.8	-
12:35 AM - 12:40 AM	54.1	55.1	-	n/a	52.2	-
12:40 AM - 12:45 AM	53.9	54.8	-	n/a	51.3	-
12:45 AM - 12:50 AM	53.5	55.1	-	n/a	52.7	-
12:50 AM - 12:55 AM	54.1	53.9	-	43.6	48.0	-4.4
12:55 AM - 01:00 AM	53.8	53.7	-	40.4	51.3	-10.9
01:00 AM - 01:05 AM	52.9	53.8	-	n/a	49.7	-
01:05 AM - 01:10 AM	53.1	54.4	-	n/a	51.7	-
01:10 AM - 01:15 AM	53.0	53.6	-	n/a	48.1	-
01:15 AM - 01:20 AM	53.8	54.0	-	n/a	46.5	-
01:20 AM - 01:25 AM	54.2	53.7	-	47.6	51.0	-3.4
01:25 AM - 01:30 AM	51.8	52.5	-	n/a	50.3	-
01:30 AM - 01:35 AM	52.4	52.0	-	44.8	47.8	-3.0
01:35 AM - 01:40 AM	51.4	52.7	-	n/a	50.6	-
01:40 AM - 01:45 AM	51.1	50.8	-	42.3	47.5	-5.2
01:45 AM - 01:50 AM	51.3	50.4	-	47.0	47.9	-0.9
01:50 AM - 01:55 AM	50.7	49.9	-	46.0	47.3	-1.3
01:55 AM - 02:00 AM	49.7	48.3	-	47.1	46.0	1.1
02:00 AM - 02:05 AM	49.2	47.9	-	46.3	45.7	0.6
02:05 AM - 02:10 AM	47.2	48.9	-	n/a	45.5	-
02:10 AM - 02:15 AM	48.9	48.9	-	n/a	46.4	-
02:15 AM - 02:20 AM	48.2	49.6	-	n/a	47.0	-
02:20 AM - 02:25 AM	49.0	48.3	-	43.7	45.6	-1.9
02:25 AM - 02:30 AM	49.5	47.3	-	48.5	45.7	2.8
02:30 AM - 02:35 AM	47.3	47.5	-	n/a	45.8	-
02:35 AM - 02:40 AM	46.6	48.4	-	n/a	46.1	-
02:40 AM - 02:45 AM	47.2	60.2	-	n/a	45.6	-
02:45 AM - 02:50 AM	49.6	48.2	-	47.0	45.9	1.1
02:50 AM - 02:55 AM	49.3	46.7	-	48.8	45.3	3.5
02:55 AM - 03:00 AM	47.4	46.3	-	43.9	45.2	-1.3
03:00 AM - 03:05 AM	45.7	45.8	-	n/a	44.9	-
03:05 AM - 03:10 AM	45.6	48.9	-	n/a	44.6	-
03:10 AM - 03:15 AM	46.0	46.0	-	n/a	44.5	-
03:15 AM - 03:20 AM	47.5	45.1	-	46.8	44.3	2.5
03:20 AM - 03:25 AM	46.1	45.5	-	40.2	44.6	-4.4
03:25 AM - 03:30 AM	45.3	46.4	-	n/a	45.2	-
03:30 AM - 03:35 AM	45.8	46.6	-	n/a	45.4	-
03:35 AM - 03:40 AM	46.1	45.7	-	38.5	44.9	-6.4
03:40 AM - 03:45 AM	46.0	46.0	-	n/a	45.0	-

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Approved by

Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551087-1

Sample No. 25114636-13
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	45.2	46.1	-	n/a	45.2	-
03:50 AM - 03:55 AM	45.0	46.8	-	n/a	44.9	-
03:55 AM - 04:00 AM	46.0	49.5	-	n/a	46.1	-
04:00 AM - 04:05 AM	46.5	47.7	-	n/a	46.2	-
04:05 AM - 04:10 AM	49.1	47.4	-	47.2	46.0	1.2
04:10 AM - 04:15 AM	46.5	48.4	-	n/a	46.7	-
04:15 AM - 04:20 AM	46.5	48.7	-	n/a	45.6	-
04:20 AM - 04:25 AM	47.3	47.7	-	n/a	45.7	-
04:25 AM - 04:30 AM	48.3	46.8	-	46.0	45.0	1.0
04:30 AM - 04:35 AM	46.7	47.9	-	n/a	45.7	-
04:35 AM - 04:40 AM	46.8	47.4	-	n/a	45.4	-
04:40 AM - 04:45 AM	47.5	47.4	-	34.1	45.8	-11.7
04:45 AM - 04:50 AM	47.6	48.4	-	n/a	46.3	-
04:50 AM - 04:55 AM	47.3	48.6	-	n/a	47.3	-
04:55 AM - 05:00 AM	48.3	52.6	-	n/a	47.4	-
05:00 AM - 05:05 AM	48.5	48.9	-	n/a	47.2	-
05:05 AM - 05:10 AM	52.0	48.8	-	52.2	46.9	5.3
05:10 AM - 05:15 AM	48.2	47.7	-	41.6	46.4	-4.8
05:15 AM - 05:20 AM	48.2	48.6	-	n/a	46.4	-
05:20 AM - 05:25 AM	47.4	49.3	-	n/a	47.3	-
05:25 AM - 05:30 AM	48.2	49.3	-	n/a	46.9	-
05:30 AM - 05:35 AM	48.7	52.4	-	n/a	48.0	-
05:35 AM - 05:40 AM	48.7	56.0	-	n/a	55.0	-
05:40 AM - 05:45 AM	54.6	51.7	-	54.5	48.2	6.3
05:45 AM - 05:50 AM	54.6	51.2	-	54.9	47.4	7.5
05:50 AM - 05:55 AM	49.7	47.8	-	48.2	45.8	2.4
05:55 AM - 06:00 AM	52.9	48.2	-	54.1	46.1	8.0
06:00 AM - 07:00 AM	49.0	51.0	n/a	-	47.3	-
07:00 AM - 08:00 AM	49.1	50.7	n/a	-	47.5	-
08:00 AM - 09:00 AM	52.3	53.3	n/a	-	48.8	-
09:00 AM - 10:00 AM	50.3	52.1	n/a	-	48.5	-
10:00 AM - 11:00 AM	49.3	50.8	n/a	-	47.0	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 07-08 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-13 วันที่ตรวจวัด 07-08 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551088-1

Sample No. 25114636-14
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	47.6	49.2	n/a	-	46.2	-
12:00 PM - 01:00 PM	48.3	51.1	n/a	-	45.5	-
01:00 PM - 02:00 PM	47.3	50.3	n/a	-	44.6	-
02:00 PM - 03:00 PM	49.7	51.8	n/a	-	44.2	-
03:00 PM - 04:00 PM	48.2	49.5	n/a	-	44.8	-
04:00 PM - 05:00 PM	48.8	49.6	n/a	-	45.0	-
05:00 PM - 06:00 PM	49.9	51.0	n/a	-	45.3	-
06:00 PM - 07:00 PM	51.3	51.1	37.8	-	47.2	-9.4
07:00 PM - 08:00 PM	48.9	50.2	n/a	-	50.0	-
08:00 PM - 09:00 PM	50.3	51.8	n/a	-	51.4	-
09:00 PM - 10:00 PM	53.9	54.7	n/a	-	51.7	-
10:00 PM - 10:05 PM	56.2	57.3	-	n/a	52.6	-
10:05 PM - 10:10 PM	57.0	57.4	-	n/a	52.2	-
10:10 PM - 10:15 PM	58.5	57.9	-	52.6	51.7	0.9
10:15 PM - 10:20 PM	58.4	58.4	-	n/a	51.4	-
10:20 PM - 10:25 PM	59.1	60.3	-	n/a	51.0	-
10:25 PM - 10:30 PM	60.3	59.9	-	52.7	51.8	0.9
10:30 PM - 10:35 PM	61.1	60.5	-	55.2	51.6	3.6
10:35 PM - 10:40 PM	61.3	60.5	-	56.6	52.7	3.9
10:40 PM - 10:45 PM	61.4	60.1	-	58.5	52.0	6.5
10:45 PM - 10:50 PM	61.9	60.1	-	60.2	53.1	7.1
10:50 PM - 10:55 PM	60.8	60.2	-	54.9	52.0	2.9
10:55 PM - 11:00 PM	61.4	60.2	-	58.2	51.4	6.8
11:00 PM - 11:05 PM	61.8	60.3	-	59.5	50.0	9.5
11:05 PM - 11:10 PM	61.0	60.9	-	47.6	50.1	-2.5
11:10 PM - 11:15 PM	61.3	61.0	-	52.5	49.7	2.8
11:15 PM - 11:20 PM	61.6	61.2	-	54.0	49.2	4.8
11:20 PM - 11:25 PM	61.8	60.7	-	58.3	49.0	9.3
11:25 PM - 11:30 PM	62.4	61.1	-	59.5	49.4	10.1
11:30 PM - 11:35 PM	61.3	60.8	-	54.7	50.5	4.2
11:35 PM - 11:40 PM	61.6	61.0	-	55.7	51.9	3.8
11:40 PM - 11:45 PM	61.7	61.1	-	55.8	52.4	3.4
11:45 PM - 11:50 PM	62.2	60.8	-	59.6	52.6	7.0
11:50 PM - 11:55 PM	62.4	60.4	-	61.1	50.8	10.3
11:55 PM - 12:00 AM	62.0	60.2	-	60.3	51.9	8.4
12:00 AM - 12:05 AM	62.0	60.6	-	59.4	50.9	8.5
12:05 AM - 12:10 AM	61.9	60.1	-	60.2	52.7	7.5
12:10 AM - 12:15 AM	61.9	59.4	-	61.3	53.1	8.2
12:15 AM - 12:20 AM	61.0	60.2	-	56.3	52.5	3.8
12:20 AM - 12:25 AM	60.4	59.7	-	55.1	53.6	1.5

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551088-1

Sample No. 25114636-14
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	60.8	59.7	-	57.3	52.9	4.4
12:30 AM - 12:35 AM	60.6	59.8	-	55.9	52.8	3.1
12:35 AM - 12:40 AM	60.4	59.3	-	56.9	52.2	4.7
12:40 AM - 12:45 AM	60.6	59.3	-	57.7	51.3	6.4
12:45 AM - 12:50 AM	60.1	59.2	-	55.8	52.7	3.1
12:50 AM - 12:55 AM	60.1	59.4	-	54.8	48.0	6.8
12:55 AM - 01:00 AM	60.3	58.6	-	58.4	51.3	7.1
01:00 AM - 01:05 AM	59.9	59.0	-	55.6	49.7	5.9
01:05 AM - 01:10 AM	59.2	58.9	-	50.4	51.7	-1.3
01:10 AM - 01:15 AM	59.3	59.2	-	45.9	48.1	-2.2
01:15 AM - 01:20 AM	59.8	57.8	-	58.5	46.5	12.0
01:20 AM - 01:25 AM	59.7	57.5	-	58.7	51.0	7.7
01:25 AM - 01:30 AM	58.9	57.3	-	56.8	50.3	6.5
01:30 AM - 01:35 AM	58.6	56.4	-	57.6	47.8	9.8
01:35 AM - 01:40 AM	58.4	56.2	-	57.4	50.6	6.8
01:40 AM - 01:45 AM	58.5	55.8	-	58.2	47.5	10.7
01:45 AM - 01:50 AM	57.8	55.9	-	56.3	47.9	8.4
01:50 AM - 01:55 AM	56.7	54.9	-	55.0	47.3	7.7
01:55 AM - 02:00 AM	56.5	54.5	-	55.2	46.0	9.2
02:00 AM - 02:05 AM	55.2	54.5	-	49.9	45.7	4.2
02:05 AM - 02:10 AM	54.4	54.5	-	n/a	45.5	-
02:10 AM - 02:15 AM	54.0	54.2	-	n/a	46.4	-
02:15 AM - 02:20 AM	54.7	53.3	-	52.1	47.0	5.1
02:20 AM - 02:25 AM	54.0	52.4	-	51.9	45.6	6.3
02:25 AM - 02:30 AM	53.4	52.9	-	46.8	45.7	1.1
02:30 AM - 02:35 AM	51.2	53.0	-	n/a	45.8	-
02:35 AM - 02:40 AM	52.6	53.1	-	n/a	46.1	-
02:40 AM - 02:45 AM	51.3	51.1	-	40.8	45.6	-4.8
02:45 AM - 02:50 AM	50.8	52.4	-	n/a	45.9	-
02:50 AM - 02:55 AM	49.9	52.4	-	n/a	45.3	-
02:55 AM - 03:00 AM	51.4	52.0	-	n/a	45.2	-
03:00 AM - 03:05 AM	51.2	51.5	-	n/a	44.9	-
03:05 AM - 03:10 AM	51.4	51.2	-	40.9	44.6	-3.7
03:10 AM - 03:15 AM	52.5	52.3	-	42.0	44.5	-2.5
03:15 AM - 03:20 AM	51.4	50.4	-	47.5	44.3	3.2
03:20 AM - 03:25 AM	52.0	49.7	-	51.1	44.6	6.5
03:25 AM - 03:30 AM	49.8	50.4	-	n/a	45.2	-
03:30 AM - 03:35 AM	49.0	50.0	-	n/a	45.4	-
03:35 AM - 03:40 AM	49.6	50.6	-	n/a	44.9	-
03:40 AM - 03:45 AM	49.4	49.4	-	n/a	45.0	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551088-1

Sample No. 25114636-14
Parameter เสียงรบกวน
Location โรงเรียนอนุบาลทับกวาง (GPS 47P 0722981, 1616404)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296511

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	48.6	51.5	-	n/a	45.2	-
03:50 AM - 03:55 AM	48.9	51.4	-	n/a	44.9	-
03:55 AM - 04:00 AM	49.3	50.8	-	n/a	46.1	-
04:00 AM - 04:05 AM	50.2	51.3	-	n/a	46.2	-
04:05 AM - 04:10 AM	49.4	49.9	-	n/a	46.0	-
04:10 AM - 04:15 AM	50.0	50.7	-	n/a	46.7	-
04:15 AM - 04:20 AM	48.9	61.0	-	n/a	45.6	-
04:20 AM - 04:25 AM	50.0	64.7	-	n/a	45.7	-
04:25 AM - 04:30 AM	56.9	49.9	-	58.9	45.0	13.9
04:30 AM - 04:35 AM	53.0	51.5	-	50.7	45.7	5.0
04:35 AM - 04:40 AM	50.4	50.6	-	n/a	45.4	-
04:40 AM - 04:45 AM	50.6	49.6	-	46.7	45.8	0.9
04:45 AM - 04:50 AM	49.6	49.2	-	42.0	46.3	-4.3
04:50 AM - 04:55 AM	49.1	49.4	-	n/a	47.3	-
04:55 AM - 05:00 AM	48.1	52.0	-	n/a	47.4	-
05:00 AM - 05:05 AM	48.7	47.3	-	46.1	47.2	-1.1
05:05 AM - 05:10 AM	51.4	48.1	-	51.7	46.9	4.8
05:10 AM - 05:15 AM	47.8	57.7	-	n/a	46.4	-
05:15 AM - 05:20 AM	47.5	61.7	-	n/a	46.4	-
05:20 AM - 05:25 AM	57.6	63.9	-	n/a	47.3	-
05:25 AM - 05:30 AM	55.0	63.5	-	n/a	46.9	-
05:30 AM - 05:35 AM	53.1	51.4	-	51.2	48.0	3.2
05:35 AM - 05:40 AM	54.8	49.9	-	56.1	55.0	1.1
05:40 AM - 05:45 AM	52.8	49.4	-	53.1	48.2	4.9
05:45 AM - 05:50 AM	49.9	49.5	-	42.3	47.4	-5.1
05:50 AM - 05:55 AM	48.8	49.1	-	n/a	45.8	-
05:55 AM - 06:00 AM	48.6	54.2	-	n/a	46.1	-
06:00 AM - 07:00 AM	49.7	49.7	n/a	-	47.3	-
07:00 AM - 08:00 AM	50.3	51.5	n/a	-	47.5	-
08:00 AM - 09:00 AM	50.6	52.3	n/a	-	48.8	-
09:00 AM - 10:00 AM	48.8	51.0	n/a	-	48.5	-
10:00 AM - 11:00 AM	48.5	51.5	n/a	-	47.0	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 08-09 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-14 วันที่ตรวจวัด 08-09 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551089-1

Sample No. 25114636-15
Parameter เสียงรบกวน
Location บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	51.8	55.0	n/a	-	40.8	-
12:00 PM - 01:00 PM	48.9	51.8	n/a	-	40.2	-
01:00 PM - 02:00 PM	48.8	50.9	n/a	-	40.5	-
02:00 PM - 03:00 PM	48.6	53.4	n/a	-	41.4	-
03:00 PM - 04:00 PM	57.9	56.6	52.0	-	40.5	11.5
04:00 PM - 05:00 PM	47.1	51.8	n/a	-	41.4	-
05:00 PM - 06:00 PM	46.6	54.9	n/a	-	41.2	-
06:00 PM - 07:00 PM	48.7	51.9	n/a	-	42.0	-
07:00 PM - 08:00 PM	48.9	42.8	47.7	-	41.2	6.5
08:00 PM - 09:00 PM	44.4	44.4	n/a	-	41.7	-
09:00 PM - 10:00 PM	57.6	55.5	53.4	-	39.8	13.6
10:00 PM - 10:05 PM	38.9	41.3	-	n/a	37.7	-
10:05 PM - 10:10 PM	38.7	39.1	-	n/a	37.6	-
10:10 PM - 10:15 PM	38.3	39.5	-	n/a	37.8	-
10:15 PM - 10:20 PM	42.2	45.1	-	n/a	39.5	-
10:20 PM - 10:25 PM	40.9	41.6	-	n/a	40.4	-
10:25 PM - 10:30 PM	40.1	46.8	-	n/a	40.1	-
10:30 PM - 10:35 PM	39.7	41.7	-	n/a	40.5	-
10:35 PM - 10:40 PM	39.9	40.2	-	n/a	38.7	-
10:40 PM - 10:45 PM	38.1	39.2	-	n/a	38.2	-
10:45 PM - 10:50 PM	41.9	40.0	-	40.4	38.3	2.1
10:50 PM - 10:55 PM	39.5	41.5	-	n/a	39.7	-
10:55 PM - 11:00 PM	40.4	41.3	-	n/a	39.7	-
11:00 PM - 11:05 PM	40.7	42.1	-	n/a	40.6	-
11:05 PM - 11:10 PM	40.2	46.2	-	n/a	40.4	-
11:10 PM - 11:15 PM	40.0	42.1	-	n/a	40.7	-
11:15 PM - 11:20 PM	41.1	44.2	-	n/a	41.1	-
11:20 PM - 11:25 PM	40.3	42.0	-	n/a	39.9	-
11:25 PM - 11:30 PM	40.6	42.8	-	n/a	39.6	-
11:30 PM - 11:35 PM	37.5	42.0	-	n/a	38.3	-
11:35 PM - 11:40 PM	39.3	40.0	-	n/a	38.7	-
11:40 PM - 11:45 PM	38.5	41.5	-	n/a	39.2	-
11:45 PM - 11:50 PM	38.8	40.3	-	n/a	38.9	-
11:50 PM - 11:55 PM	38.1	40.0	-	n/a	38.7	-
11:55 PM - 12:00 AM	37.7	39.4	-	n/a	37.7	-
12:00 AM - 12:05 AM	38.0	39.3	-	n/a	37.8	-
12:05 AM - 12:10 AM	38.1	39.8	-	n/a	38.7	-
12:10 AM - 12:15 AM	38.2	40.0	-	n/a	38.9	-
12:15 AM - 12:20 AM	40.6	45.5	-	n/a	38.7	-
12:20 AM - 12:25 AM	39.3	42.1	-	n/a	40.0	-

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Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551089-1

Sample No. 25114636-15
Parameter เสียงรบกวน
Location บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	39.5	41.3	-	n/a	39.8	-
12:30 AM - 12:35 AM	38.6	40.2	-	n/a	39.2	-
12:35 AM - 12:40 AM	37.7	40.1	-	n/a	38.5	-
12:40 AM - 12:45 AM	51.2	41.2	-	53.7	38.4	15.3
12:45 AM - 12:50 AM	40.8	40.6	-	30.3	38.7	-8.4
12:50 AM - 12:55 AM	38.5	40.0	-	n/a	38.7	-
12:55 AM - 01:00 AM	37.9	39.7	-	n/a	38.4	-
01:00 AM - 01:05 AM	45.1	51.8	-	n/a	38.6	-
01:05 AM - 01:10 AM	39.8	41.5	-	n/a	38.3	-
01:10 AM - 01:15 AM	39.4	40.3	-	n/a	38.1	-
01:15 AM - 01:20 AM	39.9	40.2	-	n/a	37.9	-
01:20 AM - 01:25 AM	37.9	39.0	-	n/a	37.6	-
01:25 AM - 01:30 AM	36.7	40.1	-	n/a	38.6	-
01:30 AM - 01:35 AM	36.4	40.0	-	n/a	37.6	-
01:35 AM - 01:40 AM	36.1	39.6	-	n/a	37.7	-
01:40 AM - 01:45 AM	36.9	39.7	-	n/a	37.3	-
01:45 AM - 01:50 AM	37.5	40.0	-	n/a	38.1	-
01:50 AM - 01:55 AM	37.9	41.0	-	n/a	38.1	-
01:55 AM - 02:00 AM	37.9	41.0	-	n/a	38.8	-
02:00 AM - 02:05 AM	37.7	40.5	-	n/a	38.0	-
02:05 AM - 02:10 AM	37.6	40.7	-	n/a	38.1	-
02:10 AM - 02:15 AM	38.4	41.6	-	n/a	38.8	-
02:15 AM - 02:20 AM	37.1	39.6	-	n/a	37.8	-
02:20 AM - 02:25 AM	37.7	40.6	-	n/a	38.1	-
02:25 AM - 02:30 AM	38.4	40.0	-	n/a	38.0	-
02:30 AM - 02:35 AM	39.0	42.7	-	n/a	39.5	-
02:35 AM - 02:40 AM	39.3	40.4	-	n/a	39.2	-
02:40 AM - 02:45 AM	38.2	41.4	-	n/a	39.5	-
02:45 AM - 02:50 AM	44.5	51.7	-	n/a	39.5	-
02:50 AM - 02:55 AM	39.7	42.0	-	n/a	39.3	-
02:55 AM - 03:00 AM	38.6	40.3	-	n/a	38.7	-
03:00 AM - 03:05 AM	38.3	40.7	-	n/a	38.8	-
03:05 AM - 03:10 AM	37.6	40.4	-	n/a	38.6	-
03:10 AM - 03:15 AM	37.8	40.1	-	n/a	39.0	-
03:15 AM - 03:20 AM	39.3	43.2	-	n/a	40.3	-
03:20 AM - 03:25 AM	72.2	70.4	-	70.5	41.7	28.8
03:25 AM - 03:30 AM	40.9	42.7	-	n/a	40.8	-
03:30 AM - 03:35 AM	41.4	44.0	-	n/a	41.9	-
03:35 AM - 03:40 AM	41.0	42.2	-	n/a	41.0	-
03:40 AM - 03:45 AM	41.5	43.5	-	n/a	41.9	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260

P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551089-1

Sample No. 25114636-15
Parameter เสียงรบกวน
Location บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	41.6	42.0	-	n/a	40.3	-
03:50 AM - 03:55 AM	41.2	42.2	-	n/a	40.5	-
03:55 AM - 04:00 AM	48.0	55.0	-	n/a	39.8	-
04:00 AM - 04:05 AM	39.4	40.8	-	n/a	39.4	-
04:05 AM - 04:10 AM	39.5	41.8	-	n/a	40.2	-
04:10 AM - 04:15 AM	47.0	52.9	-	n/a	40.2	-
04:15 AM - 04:20 AM	43.5	51.8	-	n/a	40.6	-
04:20 AM - 04:25 AM	45.5	49.2	-	n/a	38.8	-
04:25 AM - 04:30 AM	51.5	57.5	-	n/a	39.1	-
04:30 AM - 04:35 AM	48.7	53.4	-	n/a	39.4	-
04:35 AM - 04:40 AM	41.6	43.5	-	n/a	38.6	-
04:40 AM - 04:45 AM	47.4	55.1	-	n/a	39.7	-
04:45 AM - 04:50 AM	48.5	54.0	-	n/a	38.9	-
04:50 AM - 04:55 AM	51.8	58.0	-	n/a	39.4	-
04:55 AM - 05:00 AM	49.7	55.7	-	n/a	40.6	-
05:00 AM - 05:05 AM	50.4	56.1	-	n/a	40.3	-
05:05 AM - 05:10 AM	51.2	57.2	-	n/a	40.9	-
05:10 AM - 05:15 AM	52.2	58.2	-	n/a	40.5	-
05:15 AM - 05:20 AM	53.1	59.5	-	n/a	40.4	-
05:20 AM - 05:25 AM	53.2	58.7	-	n/a	40.7	-
05:25 AM - 05:30 AM	51.2	58.1	-	n/a	39.9	-
05:30 AM - 05:35 AM	54.8	59.8	-	n/a	39.7	-
05:35 AM - 05:40 AM	55.5	60.2	-	n/a	40.3	-
05:40 AM - 05:45 AM	55.6	61.3	-	n/a	41.3	-
05:45 AM - 05:50 AM	57.1	61.9	-	n/a	45.9	-
05:50 AM - 05:55 AM	55.7	61.4	-	n/a	46.5	-
05:55 AM - 06:00 AM	53.7	60.4	-	n/a	44.7	-
06:00 AM - 07:00 AM	53.1	58.2	n/a	-	43.8	-
07:00 AM - 08:00 AM	51.5	55.8	n/a	-	45.2	-
08:00 AM - 09:00 AM	60.9	59.7	54.7	-	43.6	11.1
09:00 AM - 10:00 AM	49.9	54.4	n/a	-	43.3	-
10:00 AM - 11:00 AM	47.3	52.9	n/a	-	42.6	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 02-03 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-15 วันที่ตรวจวัด 02-03 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260

P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551090-1

Sample No. 25114636-16
Parameter เสียงรบกวน
Location บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	47.0	51.6	n/a	-	41.3	-
12:00 PM - 01:00 PM	53.5	53.8	n/a	-	42.2	-
01:00 PM - 02:00 PM	47.6	54.2	n/a	-	42.3	-
02:00 PM - 03:00 PM	47.6	52.2	n/a	-	41.7	-
03:00 PM - 04:00 PM	54.9	56.6	n/a	-	39.7	-
04:00 PM - 05:00 PM	46.0	49.6	n/a	-	40.4	-
05:00 PM - 06:00 PM	48.8	55.7	n/a	-	41.7	-
06:00 PM - 07:00 PM	47.3	52.9	n/a	-	42.7	-
07:00 PM - 08:00 PM	49.4	44.4	47.7	-	42.2	5.5
08:00 PM - 09:00 PM	46.6	43.2	43.9	-	41.2	2.7
09:00 PM - 10:00 PM	41.8	42.3	n/a	-	40.2	-
10:00 PM - 10:05 PM	41.6	44.7	-	n/a	40.6	-
10:05 PM - 10:10 PM	41.9	43.2	-	n/a	40.7	-
10:10 PM - 10:15 PM	40.7	42.5	-	n/a	40.8	-
10:15 PM - 10:20 PM	42.0	43.0	-	n/a	41.1	-
10:20 PM - 10:25 PM	41.0	42.5	-	n/a	40.7	-
10:25 PM - 10:30 PM	42.8	42.7	-	29.4	41.1	-11.7
10:30 PM - 10:35 PM	42.8	42.8	-	n/a	41.5	-
10:35 PM - 10:40 PM	41.9	42.8	-	n/a	40.7	-
10:40 PM - 10:45 PM	41.5	42.6	-	n/a	40.9	-
10:45 PM - 10:50 PM	42.2	45.2	-	n/a	41.6	-
10:50 PM - 10:55 PM	41.8	42.6	-	n/a	41.0	-
10:55 PM - 11:00 PM	41.5	43.1	-	n/a	41.3	-
11:00 PM - 11:05 PM	42.2	43.7	-	n/a	40.4	-
11:05 PM - 11:10 PM	42.5	43.5	-	n/a	40.9	-
11:10 PM - 11:15 PM	42.6	43.3	-	n/a	41.0	-
11:15 PM - 11:20 PM	42.8	44.5	-	n/a	41.5	-
11:20 PM - 11:25 PM	42.9	45.5	-	n/a	40.2	-
11:25 PM - 11:30 PM	41.5	41.7	-	n/a	40.4	-
11:30 PM - 11:35 PM	39.9	41.6	-	n/a	40.0	-
11:35 PM - 11:40 PM	40.2	42.0	-	n/a	40.5	-
11:40 PM - 11:45 PM	40.6	42.3	-	n/a	40.9	-
11:45 PM - 11:50 PM	40.0	44.2	-	n/a	41.7	-
11:50 PM - 11:55 PM	40.8	46.1	-	n/a	43.3	-
11:55 PM - 12:00 AM	41.7	46.8	-	n/a	44.0	-
12:00 AM - 12:05 AM	41.6	49.7	-	n/a	44.7	-
12:05 AM - 12:10 AM	39.7	48.1	-	n/a	45.3	-
12:10 AM - 12:15 AM	40.3	47.6	-	n/a	45.8	-
12:15 AM - 12:20 AM	41.1	49.0	-	n/a	41.4	-
12:20 AM - 12:25 AM	40.0	45.9	-	n/a	42.0	-

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551090-1

Sample No. 25114636-16
Parameter เสียงรบกวน
Location ป่านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	40.9	46.8	-	n/a	41.9	-
12:30 AM - 12:35 AM	40.8	48.5	-	n/a	44.6	-
12:35 AM - 12:40 AM	40.2	48.8	-	n/a	44.3	-
12:40 AM - 12:45 AM	41.9	49.0	-	n/a	44.8	-
12:45 AM - 12:50 AM	42.3	48.2	-	n/a	44.9	-
12:50 AM - 12:55 AM	42.6	48.6	-	n/a	45.6	-
12:55 AM - 01:00 AM	42.1	47.8	-	n/a	44.9	-
01:00 AM - 01:05 AM	41.5	47.0	-	n/a	44.0	-
01:05 AM - 01:10 AM	42.3	47.0	-	n/a	42.9	-
01:10 AM - 01:15 AM	41.1	46.7	-	n/a	42.6	-
01:15 AM - 01:20 AM	40.9	45.5	-	n/a	41.7	-
01:20 AM - 01:25 AM	40.9	46.2	-	n/a	41.8	-
01:25 AM - 01:30 AM	40.9	45.4	-	n/a	41.1	-
01:30 AM - 01:35 AM	41.2	46.2	-	n/a	40.3	-
01:35 AM - 01:40 AM	42.6	46.7	-	n/a	40.9	-
01:40 AM - 01:45 AM	42.1	45.7	-	n/a	41.8	-
01:45 AM - 01:50 AM	42.7	45.1	-	n/a	41.3	-
01:50 AM - 01:55 AM	41.2	45.3	-	n/a	41.7	-
01:55 AM - 02:00 AM	41.6	46.2	-	n/a	42.1	-
02:00 AM - 02:05 AM	39.5	45.5	-	n/a	41.7	-
02:05 AM - 02:10 AM	42.2	45.3	-	n/a	41.6	-
02:10 AM - 02:15 AM	44.7	45.5	-	n/a	41.8	-
02:15 AM - 02:20 AM	43.0	46.7	-	n/a	43.2	-
02:20 AM - 02:25 AM	42.1	44.7	-	n/a	41.1	-
02:25 AM - 02:30 AM	42.1	43.7	-	n/a	40.6	-
02:30 AM - 02:35 AM	42.6	44.2	-	n/a	41.2	-
02:35 AM - 02:40 AM	42.2	43.7	-	n/a	41.2	-
02:40 AM - 02:45 AM	43.1	43.7	-	n/a	40.5	-
02:45 AM - 02:50 AM	42.0	42.1	-	n/a	40.1	-
02:50 AM - 02:55 AM	44.4	43.4	-	40.5	40.8	-0.3
02:55 AM - 03:00 AM	45.8	42.4	-	46.1	40.1	6.0
03:00 AM - 03:05 AM	44.4	43.5	-	40.1	41.0	-0.9
03:05 AM - 03:10 AM	44.7	43.1	-	42.6	40.7	1.9
03:10 AM - 03:15 AM	47.7	50.7	-	n/a	39.4	-
03:15 AM - 03:20 AM	45.5	40.7	-	46.8	38.4	8.4
03:20 AM - 03:25 AM	37.1	39.6	-	n/a	37.8	-
03:25 AM - 03:30 AM	37.4	40.1	-	n/a	38.6	-
03:30 AM - 03:35 AM	36.8	39.2	-	n/a	37.8	-
03:35 AM - 03:40 AM	51.5	53.1	-	n/a	38.8	-
03:40 AM - 03:45 AM	43.5	45.1	-	n/a	38.8	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551090-1

Sample No. 25114636-16
Parameter เสียงรบกวน
Location ป่านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	38.6	41.5	-	n/a	39.9	-
03:50 AM - 03:55 AM	39.0	41.2	-	n/a	39.5	-
03:55 AM - 04:00 AM	39.9	40.7	-	n/a	39.6	-
04:00 AM - 04:05 AM	41.1	42.0	-	n/a	40.4	-
04:05 AM - 04:10 AM	46.8	53.5	-	n/a	40.4	-
04:10 AM - 04:15 AM	45.7	50.3	-	n/a	39.8	-
04:15 AM - 04:20 AM	45.1	52.6	-	n/a	40.1	-
04:20 AM - 04:25 AM	47.5	49.6	-	n/a	40.0	-
04:25 AM - 04:30 AM	39.6	42.1	-	n/a	40.4	-
04:30 AM - 04:35 AM	49.3	53.5	-	n/a	40.1	-
04:35 AM - 04:40 AM	47.1	53.4	-	n/a	40.0	-
04:40 AM - 04:45 AM	49.1	53.9	-	n/a	40.2	-
04:45 AM - 04:50 AM	43.9	47.9	-	n/a	40.1	-
04:50 AM - 04:55 AM	50.6	56.3	-	n/a	40.0	-
04:55 AM - 05:00 AM	51.2	55.9	-	n/a	40.2	-
05:00 AM - 05:05 AM	51.7	57.4	-	n/a	40.5	-
05:05 AM - 05:10 AM	52.2	56.1	-	n/a	40.1	-
05:10 AM - 05:15 AM	51.7	57.6	-	n/a	40.4	-
05:15 AM - 05:20 AM	53.7	57.9	-	n/a	41.1	-
05:20 AM - 05:25 AM	49.0	54.6	-	n/a	40.1	-
05:25 AM - 05:30 AM	51.9	58.0	-	n/a	40.2	-
05:30 AM - 05:35 AM	53.7	58.9	-	n/a	40.7	-
05:35 AM - 05:40 AM	54.5	59.1	-	n/a	41.5	-
05:40 AM - 05:45 AM	55.9	61.1	-	n/a	43.2	-
05:45 AM - 05:50 AM	57.0	62.1	-	n/a	46.7	-
05:50 AM - 05:55 AM	55.9	61.6	-	n/a	46.4	-
05:55 AM - 06:00 AM	53.7	60.5	-	n/a	44.3	-
06:00 AM - 07:00 AM	54.9	58.5	n/a	-	44.6	-
07:00 AM - 08:00 AM	53.6	57.6	n/a	-	46.0	-
08:00 AM - 09:00 AM	59.1	59.6	n/a	-	46.1	-
09:00 AM - 10:00 AM	53.6	57.8	n/a	-	46.0	-
10:00 AM - 11:00 AM	50.6	54.0	n/a	-	45.0	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 03-04 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-16 วันที่ตรวจวัด 03-04 เมษายน 2569)
3. n/a: ไม่สามารถดำเนินการตรวจวัดระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

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Life Sciences www.alsglobal.com
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551091-1

Sample No. 25114636-17
Parameter เสียงรบกวน
Location ปานผาแสต็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	56.5	53.9	53.0	-	44.0	9.0
12:00 PM - 01:00 PM	50.4	52.3	n/a	-	43.6	-
01:00 PM - 02:00 PM	47.8	50.9	n/a	-	42.4	-
02:00 PM - 03:00 PM	59.6	58.2	54.0	-	41.6	12.4
03:00 PM - 04:00 PM	46.0	50.8	n/a	-	41.5	-
04:00 PM - 05:00 PM	47.2	53.1	n/a	-	41.5	-
05:00 PM - 06:00 PM	48.2	52.8	n/a	-	41.3	-
06:00 PM - 07:00 PM	47.5	53.8	n/a	-	42.2	-
07:00 PM - 08:00 PM	45.0	43.9	38.5	-	42.5	-4.0
08:00 PM - 09:00 PM	44.7	45.7	n/a	-	41.4	-
09:00 PM - 10:00 PM	41.0	47.4	n/a	-	39.8	-
10:00 PM - 10:05 PM	39.5	40.9	-	n/a	37.9	-
10:05 PM - 10:10 PM	38.9	40.4	-	n/a	37.8	-
10:10 PM - 10:15 PM	42.2	47.8	-	n/a	39.2	-
10:15 PM - 10:20 PM	39.6	41.5	-	n/a	39.6	-
10:20 PM - 10:25 PM	39.0	40.6	-	n/a	38.4	-
10:25 PM - 10:30 PM	40.1	43.6	-	n/a	38.5	-
10:30 PM - 10:35 PM	41.4	47.7	-	n/a	39.2	-
10:35 PM - 10:40 PM	39.5	42.8	-	n/a	39.0	-
10:40 PM - 10:45 PM	40.0	41.5	-	n/a	38.7	-
10:45 PM - 10:50 PM	41.1	48.1	-	n/a	39.5	-
10:50 PM - 10:55 PM	39.9	42.5	-	n/a	40.2	-
10:55 PM - 11:00 PM	39.5	41.9	-	n/a	39.3	-
11:00 PM - 11:05 PM	39.4	42.2	-	n/a	39.6	-
11:05 PM - 11:10 PM	47.0	54.8	-	n/a	39.7	-
11:10 PM - 11:15 PM	47.4	51.2	-	n/a	40.8	-
11:15 PM - 11:20 PM	40.4	46.8	-	n/a	40.4	-
11:20 PM - 11:25 PM	40.1	43.7	-	n/a	38.4	-
11:25 PM - 11:30 PM	39.8	42.5	-	n/a	39.5	-
11:30 PM - 11:35 PM	38.7	41.9	-	n/a	39.1	-
11:35 PM - 11:40 PM	55.9	54.0	-	54.4	40.1	14.3
11:40 PM - 11:45 PM	49.2	50.9	-	n/a	43.1	-
11:45 PM - 11:50 PM	54.5	49.2	-	56.0	40.0	16.0
11:50 PM - 11:55 PM	41.8	42.9	-	n/a	39.9	-
11:55 PM - 12:00 AM	39.0	41.6	-	n/a	38.6	-
12:00 AM - 12:05 AM	41.7	50.1	-	n/a	40.0	-
12:05 AM - 12:10 AM	38.8	42.9	-	n/a	39.9	-
12:10 AM - 12:15 AM	39.6	48.0	-	n/a	39.4	-
12:15 AM - 12:20 AM	42.7	52.0	-	n/a	39.5	-
12:20 AM - 12:25 AM	39.1	42.8	-	n/a	39.9	-

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551091-1

Sample No. 25114636-17
Parameter เสียงรบกวน
Location ปานผาแสต็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	42.9	51.7	-	n/a	40.1	-
12:30 AM - 12:35 AM	42.9	54.3	-	n/a	39.2	-
12:35 AM - 12:40 AM	42.8	50.3	-	n/a	39.8	-
12:40 AM - 12:45 AM	40.0	43.2	-	n/a	40.8	-
12:45 AM - 12:50 AM	51.7	49.4	-	50.8	40.3	10.5
12:50 AM - 12:55 AM	61.6	54.3	-	63.7	39.1	24.6
12:55 AM - 01:00 AM	44.8	43.0	-	43.1	39.7	3.4
01:00 AM - 01:05 AM	39.6	42.4	-	n/a	40.7	-
01:05 AM - 01:10 AM	39.6	42.1	-	n/a	40.8	-
01:10 AM - 01:15 AM	40.0	41.8	-	n/a	40.1	-
01:15 AM - 01:20 AM	39.0	41.8	-	n/a	40.3	-
01:20 AM - 01:25 AM	39.3	42.7	-	n/a	39.3	-
01:25 AM - 01:30 AM	40.1	41.6	-	n/a	39.4	-
01:30 AM - 01:35 AM	41.1	46.9	-	n/a	39.4	-
01:35 AM - 01:40 AM	40.0	41.9	-	n/a	39.5	-
01:40 AM - 01:45 AM	40.2	42.9	-	n/a	40.0	-
01:45 AM - 01:50 AM	39.8	42.9	-	n/a	40.5	-
01:50 AM - 01:55 AM	39.1	41.7	-	n/a	39.9	-
01:55 AM - 02:00 AM	38.9	41.0	-	n/a	39.1	-
02:00 AM - 02:05 AM	39.8	41.7	-	n/a	40.1	-
02:05 AM - 02:10 AM	39.2	41.7	-	n/a	40.0	-
02:10 AM - 02:15 AM	40.9	43.4	-	n/a	41.0	-
02:15 AM - 02:20 AM	41.4	43.7	-	n/a	41.7	-
02:20 AM - 02:25 AM	40.7	42.6	-	n/a	40.9	-
02:25 AM - 02:30 AM	41.9	44.7	-	n/a	42.1	-
02:30 AM - 02:35 AM	39.1	41.4	-	n/a	39.7	-
02:35 AM - 02:40 AM	39.8	42.0	-	n/a	40.1	-
02:40 AM - 02:45 AM	40.0	42.2	-	n/a	40.4	-
02:45 AM - 02:50 AM	39.6	41.9	-	n/a	40.6	-
02:50 AM - 02:55 AM	52.7	44.2	-	55.0	40.4	14.6
02:55 AM - 03:00 AM	39.6	42.7	-	n/a	41.1	-
03:00 AM - 03:05 AM	39.3	41.2	-	n/a	39.9	-
03:05 AM - 03:10 AM	39.5	42.1	-	n/a	40.2	-
03:10 AM - 03:15 AM	40.1	42.3	-	n/a	39.3	-
03:15 AM - 03:20 AM	38.9	41.0	-	n/a	39.8	-
03:20 AM - 03:25 AM	38.9	41.1	-	n/a	39.7	-
03:25 AM - 03:30 AM	47.7	54.6	-	n/a	38.9	-
03:30 AM - 03:35 AM	42.4	50.3	-	n/a	39.7	-
03:35 AM - 03:40 AM	39.8	41.4	-	n/a	39.4	-
03:40 AM - 03:45 AM	40.2	43.3	-	n/a	39.9	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551091-1

Sample No. 25114636-17
Parameter เสียงรบกวน
Location บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	40.3	42.6	-	n/a	40.8	-
03:50 AM - 03:55 AM	39.8	41.9	-	n/a	40.3	-
03:55 AM - 04:00 AM	40.0	42.1	-	n/a	40.3	-
04:00 AM - 04:05 AM	40.6	42.4	-	n/a	40.8	-
04:05 AM - 04:10 AM	45.6	42.6	-	45.6	40.2	5.4
04:10 AM - 04:15 AM	44.7	52.5	-	n/a	40.6	-
04:15 AM - 04:20 AM	46.1	54.2	-	n/a	40.4	-
04:20 AM - 04:25 AM	43.5	52.0	-	n/a	39.8	-
04:25 AM - 04:30 AM	48.1	52.9	-	n/a	40.2	-
04:30 AM - 04:35 AM	44.7	53.7	-	n/a	40.4	-
04:35 AM - 04:40 AM	52.9	57.9	-	n/a	40.0	-
04:40 AM - 04:45 AM	47.8	51.6	-	n/a	39.6	-
04:45 AM - 04:50 AM	50.4	56.3	-	n/a	40.7	-
04:50 AM - 04:55 AM	51.4	56.2	-	n/a	41.2	-
04:55 AM - 05:00 AM	54.0	58.0	-	n/a	41.3	-
05:00 AM - 05:05 AM	53.3	57.9	-	n/a	40.7	-
05:05 AM - 05:10 AM	52.4	57.2	-	n/a	40.7	-
05:10 AM - 05:15 AM	53.0	59.1	-	n/a	40.3	-
05:15 AM - 05:20 AM	51.2	57.0	-	n/a	41.4	-
05:20 AM - 05:25 AM	54.7	59.3	-	n/a	41.0	-
05:25 AM - 05:30 AM	54.3	59.5	-	n/a	41.7	-
05:30 AM - 05:35 AM	53.6	59.3	-	n/a	41.5	-
05:35 AM - 05:40 AM	52.7	59.4	-	n/a	42.5	-
05:40 AM - 05:45 AM	55.8	61.6	-	n/a	42.9	-
05:45 AM - 05:50 AM	55.6	60.3	-	n/a	46.4	-
05:50 AM - 05:55 AM	54.3	61.3	-	n/a	46.4	-
05:55 AM - 06:00 AM	52.9	60.2	-	n/a	44.5	-
06:00 AM - 07:00 AM	54.6	59.3	n/a	-	45.3	-
07:00 AM - 08:00 AM	51.7	56.3	n/a	-	44.0	-
08:00 AM - 09:00 AM	62.6	61.4	56.4	-	45.3	11.1
09:00 AM - 10:00 AM	49.8	54.6	n/a	-	44.2	-
10:00 AM - 11:00 AM	49.3	52.9	n/a	-	44.0	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 04-05 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-17 วันที่ตรวจวัด 04-05 เมษายน 2569)
3. ก/ล: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551092-1

Sample No. 25114636-18
Parameter เสียงรบกวน
Location บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	48.8	52.3	n/a	-	44.0	-
12:00 PM - 01:00 PM	46.7	50.6	n/a	-	42.5	-
01:00 PM - 02:00 PM	47.3	51.1	n/a	-	43.1	-
02:00 PM - 03:00 PM	49.3	55.0	n/a	-	43.4	-
03:00 PM - 04:00 PM	60.1	58.8	54.2	-	44.3	9.9
04:00 PM - 05:00 PM	45.6	52.2	n/a	-	41.2	-
05:00 PM - 06:00 PM	44.8	51.3	n/a	-	40.8	-
06:00 PM - 07:00 PM	47.7	52.5	n/a	-	43.7	-
07:00 PM - 08:00 PM	44.4	44.1	32.6	-	42.1	-9.5
08:00 PM - 09:00 PM	43.0	44.8	n/a	-	42.9	-
09:00 PM - 10:00 PM	41.8	42.8	n/a	-	40.5	-
10:00 PM - 10:05 PM	44.4	40.4	-	45.2	38.6	6.6
10:05 PM - 10:10 PM	39.9	39.8	-	26.5	38.3	-11.8
10:10 PM - 10:15 PM	42.1	40.9	-	38.9	37.7	1.2
10:15 PM - 10:20 PM	39.3	38.5	-	34.6	36.8	-2.2
10:20 PM - 10:25 PM	39.3	38.5	-	34.6	36.6	-2.0
10:25 PM - 10:30 PM	39.3	38.3	-	35.4	36.3	-0.9
10:30 PM - 10:35 PM	39.1	37.9	-	35.9	36.4	-0.5
10:35 PM - 10:40 PM	38.8	38.4	-	31.2	36.7	-5.5
10:40 PM - 10:45 PM	36.5	37.9	-	n/a	36.3	-
10:45 PM - 10:50 PM	38.0	38.6	-	n/a	37.2	-
10:50 PM - 10:55 PM	38.8	40.9	-	n/a	37.8	-
10:55 PM - 11:00 PM	38.1	38.9	-	n/a	37.4	-
11:00 PM - 11:05 PM	41.8	49.0	-	n/a	36.9	-
11:05 PM - 11:10 PM	48.8	65.4	-	n/a	37.0	-
11:10 PM - 11:15 PM	37.4	41.2	-	n/a	36.9	-
11:15 PM - 11:20 PM	37.5	39.1	-	n/a	37.3	-
11:20 PM - 11:25 PM	37.7	39.6	-	n/a	38.5	-
11:25 PM - 11:30 PM	69.6	66.7	-	69.5	38.3	31.2
11:30 PM - 11:35 PM	38.4	40.0	-	n/a	38.3	-
11:35 PM - 11:40 PM	37.3	39.2	-	n/a	38.0	-
11:40 PM - 11:45 PM	37.5	39.2	-	n/a	38.0	-
11:45 PM - 11:50 PM	37.5	39.3	-	n/a	38.1	-
11:50 PM - 11:55 PM	37.0	38.7	-	n/a	37.4	-
11:55 PM - 12:00 AM	37.2	38.9	-	n/a	37.8	-
12:00 AM - 12:05 AM	37.3	39.1	-	n/a	37.6	-
12:05 AM - 12:10 AM	37.5	39.3	-	n/a	37.7	-
12:10 AM - 12:15 AM	38.1	40.0	-	n/a	38.0	-
12:15 AM - 12:20 AM	38.4	40.3	-	n/a	37.5	-
12:20 AM - 12:25 AM	37.5	38.9	-	n/a	36.9	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551092-1

Sample No. 25114636-18
Parameter เสียงรบกวน
Location ปานผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	37.2	39.5	-	n/a	37.1	-
12:30 AM - 12:35 AM	38.1	38.8	-	n/a	37.2	-
12:35 AM - 12:40 AM	37.2	39.0	-	n/a	36.7	-
12:40 AM - 12:45 AM	38.9	38.7	-	28.4	37.4	-9.0
12:45 AM - 12:50 AM	41.0	39.4	-	38.9	37.6	1.3
12:50 AM - 12:55 AM	40.3	38.7	-	38.2	37.5	0.7
12:55 AM - 01:00 AM	40.3	46.5	-	n/a	37.2	-
01:00 AM - 01:05 AM	44.7	38.0	-	46.7	36.8	9.9
01:05 AM - 01:10 AM	40.2	37.9	-	39.3	36.7	2.6
01:10 AM - 01:15 AM	38.4	38.1	-	29.6	36.6	-7.0
01:15 AM - 01:20 AM	35.9	37.8	-	n/a	36.2	-
01:20 AM - 01:25 AM	36.5	49.1	-	n/a	36.7	-
01:25 AM - 01:30 AM	44.0	48.9	-	n/a	37.2	-
01:30 AM - 01:35 AM	37.5	40.7	-	n/a	37.4	-
01:35 AM - 01:40 AM	41.9	47.6	-	n/a	38.6	-
01:40 AM - 01:45 AM	52.3	51.5	-	47.6	38.5	9.1
01:45 AM - 01:50 AM	53.8	56.2	-	n/a	38.1	-
01:50 AM - 01:55 AM	39.7	40.2	-	n/a	38.3	-
01:55 AM - 02:00 AM	40.8	43.2	-	n/a	39.4	-
02:00 AM - 02:05 AM	38.2	39.8	-	n/a	38.3	-
02:05 AM - 02:10 AM	37.5	39.7	-	n/a	37.8	-
02:10 AM - 02:15 AM	37.7	39.6	-	n/a	38.2	-
02:15 AM - 02:20 AM	37.1	38.9	-	n/a	37.3	-
02:20 AM - 02:25 AM	38.2	40.8	-	n/a	37.7	-
02:25 AM - 02:30 AM	38.6	39.2	-	n/a	38.3	-
02:30 AM - 02:35 AM	40.3	40.3	-	n/a	38.6	-
02:35 AM - 02:40 AM	38.7	40.4	-	n/a	38.9	-
02:40 AM - 02:45 AM	39.3	40.1	-	n/a	38.9	-
02:45 AM - 02:50 AM	38.9	39.7	-	n/a	38.7	-
02:50 AM - 02:55 AM	39.5	40.0	-	n/a	39.2	-
02:55 AM - 03:00 AM	39.6	40.1	-	n/a	39.2	-
03:00 AM - 03:05 AM	39.8	41.3	-	n/a	40.3	-
03:05 AM - 03:10 AM	39.3	39.6	-	n/a	38.3	-
03:10 AM - 03:15 AM	38.2	40.0	-	n/a	39.2	-
03:15 AM - 03:20 AM	38.1	40.0	-	n/a	38.9	-
03:20 AM - 03:25 AM	38.4	40.6	-	n/a	39.4	-
03:25 AM - 03:30 AM	38.1	40.3	-	n/a	39.3	-
03:30 AM - 03:35 AM	38.5	40.8	-	n/a	39.6	-
03:35 AM - 03:40 AM	38.0	39.9	-	n/a	39.0	-
03:40 AM - 03:45 AM	48.6	55.6	-	n/a	40.0	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551092-1

Sample No. 25114636-18
Parameter เสียงรบกวน
Location ปานผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	47.3	49.0	-	n/a	38.7	-
03:50 AM - 03:55 AM	39.5	43.1	-	n/a	40.0	-
03:55 AM - 04:00 AM	46.5	53.7	-	n/a	39.7	-
04:00 AM - 04:05 AM	42.1	42.9	-	n/a	40.0	-
04:05 AM - 04:10 AM	39.4	41.5	-	n/a	40.2	-
04:10 AM - 04:15 AM	39.6	42.7	-	n/a	41.0	-
04:15 AM - 04:20 AM	39.3	41.5	-	n/a	40.2	-
04:20 AM - 04:25 AM	46.6	54.7	-	n/a	40.4	-
04:25 AM - 04:30 AM	48.3	50.0	-	n/a	40.9	-
04:30 AM - 04:35 AM	43.1	50.6	-	n/a	40.3	-
04:35 AM - 04:40 AM	48.2	53.2	-	n/a	41.3	-
04:40 AM - 04:45 AM	52.5	56.8	-	n/a	41.8	-
04:45 AM - 04:50 AM	49.8	52.9	-	n/a	41.7	-
04:50 AM - 04:55 AM	52.2	58.3	-	n/a	41.9	-
04:55 AM - 05:00 AM	70.6	70.3	-	61.8	41.9	19.9
05:00 AM - 05:05 AM	49.9	55.8	-	n/a	42.0	-
05:05 AM - 05:10 AM	49.1	54.7	-	n/a	42.2	-
05:10 AM - 05:15 AM	49.7	55.9	-	n/a	42.3	-
05:15 AM - 05:20 AM	53.6	58.7	-	n/a	42.2	-
05:20 AM - 05:25 AM	52.3	56.6	-	n/a	41.9	-
05:25 AM - 05:30 AM	53.9	59.1	-	n/a	43.0	-
05:30 AM - 05:35 AM	54.3	58.6	-	n/a	43.5	-
05:35 AM - 05:40 AM	54.1	59.4	-	n/a	44.0	-
05:40 AM - 05:45 AM	55.2	61.4	-	n/a	46.0	-
05:45 AM - 05:50 AM	55.3	62.0	-	n/a	50.0	-
05:50 AM - 05:55 AM	54.8	61.0	-	n/a	45.8	-
05:55 AM - 06:00 AM	51.9	59.8	-	n/a	45.6	-
06:00 AM - 07:00 AM	51.5	58.0	n/a	-	45.5	-
07:00 AM - 08:00 AM	58.9	58.6	47.1	-	47.1	0.0
08:00 AM - 09:00 AM	59.8	60.8	n/a	-	47.7	-
09:00 AM - 10:00 AM	54.1	55.0	n/a	-	45.8	-
10:00 AM - 11:00 AM	49.0	53.1	n/a	-	44.6	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 05-06 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-18 วันที่ตรวจวัด 05-06 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551093-1

Sample No. 25114636-19
Parameter เสียงรบกวน
Location ปานผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	50.7	53.3	n/a	-	44.2	-
12:00 PM - 01:00 PM	49.3	52.9	n/a	-	42.8	-
01:00 PM - 02:00 PM	47.7	51.2	n/a	-	42.9	-
02:00 PM - 03:00 PM	53.3	52.7	44.4	-	41.7	2.7
03:00 PM - 04:00 PM	48.0	55.7	n/a	-	40.9	-
04:00 PM - 05:00 PM	53.2	56.5	n/a	-	42.0	-
05:00 PM - 06:00 PM	46.5	52.3	n/a	-	40.9	-
06:00 PM - 07:00 PM	48.5	54.3	n/a	-	43.0	-
07:00 PM - 08:00 PM	44.3	49.3	n/a	-	42.3	-
08:00 PM - 09:00 PM	41.8	49.3	n/a	-	42.3	-
09:00 PM - 10:00 PM	41.6	46.1	n/a	-	40.4	-
10:00 PM - 10:05 PM	40.7	42.8	-	n/a	40.0	-
10:05 PM - 10:10 PM	42.0	48.1	-	n/a	40.8	-
10:10 PM - 10:15 PM	39.6	40.5	-	n/a	39.0	-
10:15 PM - 10:20 PM	40.1	40.0	-	26.7	39.0	-12.3
10:20 PM - 10:25 PM	40.2	41.1	-	n/a	39.7	-
10:25 PM - 10:30 PM	39.3	40.6	-	n/a	39.6	-
10:30 PM - 10:35 PM	39.9	40.8	-	n/a	39.7	-
10:35 PM - 10:40 PM	41.6	49.9	-	n/a	40.2	-
10:40 PM - 10:45 PM	39.7	40.7	-	n/a	39.1	-
10:45 PM - 10:50 PM	38.6	40.3	-	n/a	39.0	-
10:50 PM - 10:55 PM	38.2	40.5	-	n/a	39.5	-
10:55 PM - 11:00 PM	38.3	40.0	-	n/a	38.7	-
11:00 PM - 11:05 PM	38.7	40.3	-	n/a	39.1	-
11:05 PM - 11:10 PM	41.6	39.9	-	39.7	38.9	0.8
11:10 PM - 11:15 PM	40.7	41.0	-	n/a	39.1	-
11:15 PM - 11:20 PM	42.0	40.4	-	39.9	39.1	0.8
11:20 PM - 11:25 PM	41.9	41.2	-	36.6	39.4	-2.8
11:25 PM - 11:30 PM	43.0	49.4	-	n/a	40.1	-
11:30 PM - 11:35 PM	42.5	41.7	-	37.8	39.6	-1.8
11:35 PM - 11:40 PM	42.7	41.6	-	39.2	40.5	-1.3
11:40 PM - 11:45 PM	42.3	41.1	-	39.1	39.5	-0.4
11:45 PM - 11:50 PM	42.3	40.5	-	40.6	39.1	1.5
11:50 PM - 11:55 PM	42.3	41.0	-	39.4	39.8	-0.4
11:55 PM - 12:00 AM	42.6	41.9	-	37.3	40.0	-2.7
12:00 AM - 12:05 AM	42.2	41.6	-	36.3	39.9	-3.6
12:05 AM - 12:10 AM	42.0	40.2	-	40.3	38.8	1.5
12:10 AM - 12:15 AM	42.6	40.5	-	41.4	39.2	2.2
12:15 AM - 12:20 AM	42.5	41.9	-	36.6	40.0	-3.4
12:20 AM - 12:25 AM	59.0	54.7	-	60.0	40.9	19.1

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551093-1

Sample No. 25114636-19
Parameter เสียงรบกวน
Location ปานผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	48.5	58.9	-	n/a	41.2	-
12:30 AM - 12:35 AM	43.6	42.7	-	39.3	40.1	-0.8
12:35 AM - 12:40 AM	43.4	48.6	-	n/a	39.8	-
12:40 AM - 12:45 AM	44.3	49.4	-	n/a	40.4	-
12:45 AM - 12:50 AM	43.4	42.6	-	38.7	40.5	-1.8
12:50 AM - 12:55 AM	43.6	42.2	-	41.0	40.8	0.2
12:55 AM - 01:00 AM	43.3	41.0	-	42.4	39.6	2.8
01:00 AM - 01:05 AM	41.4	41.4	-	n/a	40.3	-
01:05 AM - 01:10 AM	39.4	41.8	-	n/a	40.0	-
01:10 AM - 01:15 AM	40.3	44.2	-	n/a	40.0	-
01:15 AM - 01:20 AM	39.8	41.5	-	n/a	39.8	-
01:20 AM - 01:25 AM	39.9	42.9	-	n/a	40.1	-
01:25 AM - 01:30 AM	40.7	43.3	-	n/a	41.9	-
01:30 AM - 01:35 AM	39.7	42.3	-	n/a	39.9	-
01:35 AM - 01:40 AM	41.4	43.5	-	n/a	41.3	-
01:40 AM - 01:45 AM	40.2	43.0	-	n/a	41.0	-
01:45 AM - 01:50 AM	42.1	43.5	-	n/a	41.0	-
01:50 AM - 01:55 AM	50.9	68.1	-	n/a	40.0	-
01:55 AM - 02:00 AM	44.1	70.6	-	n/a	42.0	-
02:00 AM - 02:05 AM	42.8	45.5	-	n/a	41.6	-
02:05 AM - 02:10 AM	42.2	44.5	-	n/a	41.0	-
02:10 AM - 02:15 AM	43.0	43.3	-	n/a	41.8	-
02:15 AM - 02:20 AM	41.3	45.1	-	n/a	42.7	-
02:20 AM - 02:25 AM	40.8	44.5	-	n/a	42.0	-
02:25 AM - 02:30 AM	41.5	43.5	-	n/a	41.1	-
02:30 AM - 02:35 AM	40.0	42.5	-	n/a	41.2	-
02:35 AM - 02:40 AM	40.9	43.7	-	n/a	41.7	-
02:40 AM - 02:45 AM	49.6	43.3	-	51.4	41.6	9.8
02:45 AM - 02:50 AM	41.7	53.0	-	n/a	39.5	-
02:50 AM - 02:55 AM	38.3	40.7	-	n/a	39.4	-
02:55 AM - 03:00 AM	38.3	41.0	-	n/a	39.7	-
03:00 AM - 03:05 AM	40.8	42.4	-	n/a	40.2	-
03:05 AM - 03:10 AM	39.0	42.9	-	n/a	40.3	-
03:10 AM - 03:15 AM	39.5	42.2	-	n/a	40.8	-
03:15 AM - 03:20 AM	39.2	42.4	-	n/a	40.9	-
03:20 AM - 03:25 AM	39.7	41.5	-	n/a	40.3	-
03:25 AM - 03:30 AM	40.3	42.7	-	n/a	41.6	-
03:30 AM - 03:35 AM	40.3	43.2	-	n/a	41.2	-
03:35 AM - 03:40 AM	40.1	42.5	-	n/a	40.1	-
03:40 AM - 03:45 AM	39.1	43.3	-	n/a	41.7	-

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551093-1

Sample No. 25114636-19
Parameter เสียงรบกวน
Location บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	40.6	45.6	-	n/a	41.8	-
03:50 AM - 03:55 AM	46.8	51.5	-	n/a	41.8	-
03:55 AM - 04:00 AM	45.5	52.2	-	n/a	42.0	-
04:00 AM - 04:05 AM	49.0	50.6	-	n/a	41.5	-
04:05 AM - 04:10 AM	39.1	42.7	-	n/a	40.2	-
04:10 AM - 04:15 AM	46.4	52.7	-	n/a	40.0	-
04:15 AM - 04:20 AM	43.9	48.3	-	n/a	42.1	-
04:20 AM - 04:25 AM	47.2	44.7	-	46.6	40.8	5.8
04:25 AM - 04:30 AM	49.4	55.1	-	n/a	41.1	-
04:30 AM - 04:35 AM	45.9	48.0	-	n/a	41.4	-
04:35 AM - 04:40 AM	49.7	51.5	-	n/a	41.7	-
04:40 AM - 04:45 AM	45.9	54.5	-	n/a	42.0	-
04:45 AM - 04:50 AM	51.9	50.9	-	48.0	40.9	7.1
04:50 AM - 04:55 AM	51.6	57.8	-	n/a	41.5	-
04:55 AM - 05:00 AM	53.2	56.2	-	n/a	40.7	-
05:00 AM - 05:05 AM	52.5	57.0	-	n/a	40.4	-
05:05 AM - 05:10 AM	52.3	58.4	-	n/a	41.0	-
05:10 AM - 05:15 AM	50.3	55.0	-	n/a	41.0	-
05:15 AM - 05:20 AM	53.7	56.9	-	n/a	41.0	-
05:20 AM - 05:25 AM	51.7	57.9	-	n/a	41.2	-
05:25 AM - 05:30 AM	53.0	58.4	-	n/a	41.6	-
05:30 AM - 05:35 AM	55.0	56.8	-	n/a	42.3	-
05:35 AM - 05:40 AM	54.9	60.4	-	n/a	42.5	-
05:40 AM - 05:45 AM	56.6	60.8	-	n/a	43.1	-
05:45 AM - 05:50 AM	56.7	63.0	-	n/a	53.4	-
05:50 AM - 05:55 AM	53.5	61.8	-	n/a	45.5	-
05:55 AM - 06:00 AM	50.8	57.7	-	n/a	45.1	-
06:00 AM - 07:00 AM	53.6	58.4	n/a	-	45.1	-
07:00 AM - 08:00 AM	55.0	58.5	n/a	-	45.9	-
08:00 AM - 09:00 AM	55.9	57.4	n/a	-	45.5	-
09:00 AM - 10:00 AM	51.6	57.8	n/a	-	45.4	-
10:00 AM - 11:00 AM	51.6	57.0	n/a	-	43.9	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 06-07 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-19 วันที่ตรวจวัด 06-07 เมษายน 2569)
3. ก/ล: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551094-1

Sample No. 25114636-20
Parameter เสียงรบกวน
Location บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	49.4	53.7	n/a	-	43.4	-
12:00 PM - 01:00 PM	48.2	52.7	n/a	-	42.3	-
01:00 PM - 02:00 PM	47.2	53.6	n/a	-	42.3	-
02:00 PM - 03:00 PM	47.1	51.6	n/a	-	40.8	-
03:00 PM - 04:00 PM	57.4	56.5	50.1	-	40.0	10.1
04:00 PM - 05:00 PM	46.3	51.3	n/a	-	39.7	-
05:00 PM - 06:00 PM	45.6	51.8	n/a	-	37.9	-
06:00 PM - 07:00 PM	48.0	53.1	n/a	-	41.7	-
07:00 PM - 08:00 PM	46.0	46.2	n/a	-	42.2	-
08:00 PM - 09:00 PM	43.2	45.8	n/a	-	41.4	-
09:00 PM - 10:00 PM	40.9	42.2	n/a	-	40.3	-
10:00 PM - 10:05 PM	40.1	41.0	-	n/a	39.6	-
10:05 PM - 10:10 PM	39.7	40.6	-	n/a	39.1	-
10:10 PM - 10:15 PM	40.4	41.4	-	n/a	39.0	-
10:15 PM - 10:20 PM	41.0	45.4	-	n/a	39.5	-
10:20 PM - 10:25 PM	40.9	42.4	-	n/a	40.7	-
10:25 PM - 10:30 PM	40.8	42.1	-	n/a	40.2	-
10:30 PM - 10:35 PM	39.8	41.9	-	n/a	40.1	-
10:35 PM - 10:40 PM	38.3	41.9	-	n/a	39.6	-
10:40 PM - 10:45 PM	40.7	43.0	-	n/a	39.4	-
10:45 PM - 10:50 PM	38.5	56.0	-	n/a	39.7	-
10:50 PM - 10:55 PM	37.9	41.9	-	n/a	40.2	-
10:55 PM - 11:00 PM	37.8	41.5	-	n/a	39.7	-
11:00 PM - 11:05 PM	50.9	45.1	-	52.6	37.5	15.1
11:05 PM - 11:10 PM	44.3	57.2	-	n/a	36.9	-
11:10 PM - 11:15 PM	39.0	41.9	-	n/a	37.7	-
11:15 PM - 11:20 PM	37.7	41.3	-	n/a	39.0	-
11:20 PM - 11:25 PM	39.0	41.9	-	n/a	39.5	-
11:25 PM - 11:30 PM	39.3	41.8	-	n/a	39.6	-
11:30 PM - 11:35 PM	39.6	41.0	-	n/a	39.1	-
11:35 PM - 11:40 PM	39.6	40.3	-	n/a	38.2	-
11:40 PM - 11:45 PM	39.2	40.5	-	n/a	39.2	-
11:45 PM - 11:50 PM	39.0	39.6	-	n/a	38.8	-
11:50 PM - 11:55 PM	40.6	39.5	-	37.1	38.5	-1.4
11:55 PM - 12:00 AM	39.6	41.1	-	n/a	38.7	-
12:00 AM - 12:05 AM	39.9	41.1	-	n/a	39.3	-
12:05 AM - 12:10 AM	38.9	39.7	-	n/a	38.0	-
12:10 AM - 12:15 AM	39.0	39.2	-	n/a	38.2	-
12:15 AM - 12:20 AM	38.4	38.9	-	n/a	37.9	-
12:20 AM - 12:25 AM	38.7	38.9	-	n/a	37.9	-

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Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551094-1

Sample No. 25114636-20
Parameter เสียงรบกวน
Location ป่านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	38.6	38.3	-	29.8	37.3	-7.5
12:30 AM - 12:35 AM	38.7	38.4	-	29.9	37.4	-7.5
12:35 AM - 12:40 AM	39.1	39.5	-	n/a	38.4	-
12:40 AM - 12:45 AM	39.3	39.2	-	25.9	38.2	-12.3
12:45 AM - 12:50 AM	39.0	39.6	-	n/a	38.3	-
12:50 AM - 12:55 AM	38.5	38.8	-	n/a	37.5	-
12:55 AM - 01:00 AM	38.6	39.2	-	n/a	38.0	-
01:00 AM - 01:05 AM	38.3	38.7	-	n/a	37.6	-
01:05 AM - 01:10 AM	38.3	38.7	-	n/a	37.4	-
01:10 AM - 01:15 AM	38.4	38.5	-	n/a	37.4	-
01:15 AM - 01:20 AM	38.4	38.5	-	n/a	37.5	-
01:20 AM - 01:25 AM	38.0	38.1	-	n/a	36.9	-
01:25 AM - 01:30 AM	38.4	38.6	-	n/a	37.4	-
01:30 AM - 01:35 AM	38.1	38.3	-	n/a	36.5	-
01:35 AM - 01:40 AM	38.3	38.2	-	24.9	37.3	-12.4
01:40 AM - 01:45 AM	38.4	38.5	-	n/a	37.4	-
01:45 AM - 01:50 AM	37.7	38.0	-	n/a	37.2	-
01:50 AM - 01:55 AM	36.5	37.6	-	n/a	36.6	-
01:55 AM - 02:00 AM	36.5	38.1	-	n/a	37.1	-
02:00 AM - 02:05 AM	38.1	39.0	-	n/a	37.4	-
02:05 AM - 02:10 AM	38.6	38.5	-	25.2	37.5	-12.3
02:10 AM - 02:15 AM	38.9	38.9	-	n/a	37.8	-
02:15 AM - 02:20 AM	38.3	39.3	-	n/a	37.9	-
02:20 AM - 02:25 AM	37.8	40.4	-	n/a	38.9	-
02:25 AM - 02:30 AM	37.4	39.3	-	n/a	38.2	-
02:30 AM - 02:35 AM	37.5	39.6	-	n/a	38.6	-
02:35 AM - 02:40 AM	37.5	39.3	-	n/a	38.5	-
02:40 AM - 02:45 AM	37.6	39.7	-	n/a	38.5	-
02:45 AM - 02:50 AM	37.1	39.4	-	n/a	37.7	-
02:50 AM - 02:55 AM	36.6	39.1	-	n/a	37.5	-
02:55 AM - 03:00 AM	37.0	38.6	-	n/a	37.0	-
03:00 AM - 03:05 AM	37.2	38.1	-	n/a	37.0	-
03:05 AM - 03:10 AM	49.3	40.9	-	51.6	37.9	13.7
03:10 AM - 03:15 AM	37.7	40.0	-	n/a	38.2	-
03:15 AM - 03:20 AM	38.5	41.9	-	n/a	38.0	-
03:20 AM - 03:25 AM	47.2	53.7	-	n/a	37.9	-
03:25 AM - 03:30 AM	39.4	45.9	-	n/a	37.0	-
03:30 AM - 03:35 AM	38.3	39.7	-	n/a	38.4	-
03:35 AM - 03:40 AM	43.5	40.1	-	43.8	38.7	5.1
03:40 AM - 03:45 AM	41.3	50.3	-	n/a	38.3	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551094-1

Sample No. 25114636-20
Parameter เสียงรบกวน
Location ป่านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	37.9	39.1	-	n/a	38.2	-
03:50 AM - 03:55 AM	38.8	40.3	-	n/a	39.3	-
03:55 AM - 04:00 AM	38.8	40.5	-	n/a	39.0	-
04:00 AM - 04:05 AM	38.2	40.8	-	n/a	39.3	-
04:05 AM - 04:10 AM	45.8	50.6	-	n/a	38.6	-
04:10 AM - 04:15 AM	39.6	44.7	-	n/a	39.7	-
04:15 AM - 04:20 AM	47.2	52.6	-	n/a	39.9	-
04:20 AM - 04:25 AM	44.2	42.0	-	43.2	40.1	3.1
04:25 AM - 04:30 AM	44.1	51.1	-	n/a	40.1	-
04:30 AM - 04:35 AM	42.4	46.1	-	n/a	40.1	-
04:35 AM - 04:40 AM	50.4	54.0	-	n/a	40.2	-
04:40 AM - 04:45 AM	43.4	50.0	-	n/a	40.3	-
04:45 AM - 04:50 AM	46.1	53.1	-	n/a	40.1	-
04:50 AM - 04:55 AM	51.9	52.2	-	n/a	39.9	-
04:55 AM - 05:00 AM	51.6	57.9	-	n/a	40.8	-
05:00 AM - 05:05 AM	51.8	56.9	-	n/a	39.9	-
05:05 AM - 05:10 AM	51.0	54.7	-	n/a	41.0	-
05:10 AM - 05:15 AM	51.9	56.7	-	n/a	41.2	-
05:15 AM - 05:20 AM	52.2	57.5	-	n/a	41.4	-
05:20 AM - 05:25 AM	54.8	56.3	-	n/a	41.2	-
05:25 AM - 05:30 AM	55.8	60.3	-	n/a	41.3	-
05:30 AM - 05:35 AM	55.9	60.8	-	n/a	41.5	-
05:35 AM - 05:40 AM	55.2	60.6	-	n/a	41.6	-
05:40 AM - 05:45 AM	55.8	61.2	-	n/a	43.2	-
05:45 AM - 05:50 AM	56.0	62.4	-	n/a	48.9	-
05:50 AM - 05:55 AM	52.3	61.7	-	n/a	46.4	-
05:55 AM - 06:00 AM	52.1	58.3	-	n/a	44.6	-
06:00 AM - 07:00 AM	55.7	59.6	n/a	-	45.3	-
07:00 AM - 08:00 AM	51.8	56.3	n/a	-	44.4	-
08:00 AM - 09:00 AM	55.5	58.2	n/a	-	45.5	-
09:00 AM - 10:00 AM	49.4	54.0	n/a	-	46.3	-
10:00 AM - 11:00 AM	48.5	55.6	n/a	-	45.3	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 07-08 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-20 วันที่ตรวจวัด 07-08 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Life Sciences www.alsglobal.com
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551095-1

Sample No. 25114636-21
Parameter เสียงรบกวน
Location ปานผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	47.3	51.8	n/a	-	43.4	-
12:00 PM - 01:00 PM	47.5	52.8	n/a	-	42.3	-
01:00 PM - 02:00 PM	47.7	51.8	n/a	-	42.3	-
02:00 PM - 03:00 PM	47.0	50.9	n/a	-	40.8	-
03:00 PM - 04:00 PM	46.2	51.1	n/a	-	40.0	-
04:00 PM - 05:00 PM	52.1	51.0	45.6	-	39.7	5.9
05:00 PM - 06:00 PM	49.1	54.1	n/a	-	37.9	-
06:00 PM - 07:00 PM	49.5	53.8	n/a	-	41.7	-
07:00 PM - 08:00 PM	46.3	44.5	41.6	-	42.2	-0.6
08:00 PM - 09:00 PM	43.7	47.0	n/a	-	41.4	-
09:00 PM - 10:00 PM	40.8	46.1	n/a	-	40.3	-
10:00 PM - 10:05 PM	40.8	43.8	-	n/a	39.6	-
10:05 PM - 10:10 PM	41.0	43.6	-	n/a	39.1	-
10:10 PM - 10:15 PM	43.2	49.8	-	n/a	39.0	-
10:15 PM - 10:20 PM	40.1	43.3	-	n/a	39.5	-
10:20 PM - 10:25 PM	40.1	43.0	-	n/a	40.7	-
10:25 PM - 10:30 PM	42.3	43.9	-	n/a	40.2	-
10:30 PM - 10:35 PM	41.1	44.4	-	n/a	40.1	-
10:35 PM - 10:40 PM	40.0	41.6	-	n/a	39.6	-
10:40 PM - 10:45 PM	42.1	41.4	-	36.8	39.4	-2.6
10:45 PM - 10:50 PM	39.9	47.2	-	n/a	39.7	-
10:50 PM - 10:55 PM	39.3	39.7	-	n/a	40.2	-
10:55 PM - 11:00 PM	39.2	39.7	-	n/a	39.7	-
11:00 PM - 11:05 PM	39.8	39.8	-	n/a	37.5	-
11:05 PM - 11:10 PM	42.8	41.0	-	41.1	36.9	4.2
11:10 PM - 11:15 PM	39.9	40.0	-	n/a	37.7	-
11:15 PM - 11:20 PM	39.4	41.1	-	n/a	39.0	-
11:20 PM - 11:25 PM	39.7	40.5	-	n/a	39.5	-
11:25 PM - 11:30 PM	39.7	39.2	-	33.1	39.6	-6.5
11:30 PM - 11:35 PM	40.1	39.8	-	31.3	39.1	-7.8
11:35 PM - 11:40 PM	40.1	38.7	-	37.5	38.2	-0.7
11:40 PM - 11:45 PM	38.6	40.5	-	n/a	39.2	-
11:45 PM - 11:50 PM	40.2	39.2	-	36.3	38.8	-2.5
11:50 PM - 11:55 PM	38.7	40.1	-	n/a	38.5	-
11:55 PM - 12:00 AM	38.6	39.8	-	n/a	38.7	-
12:00 AM - 12:05 AM	39.9	39.8	-	26.5	39.3	-12.8
12:05 AM - 12:10 AM	44.7	47.3	-	n/a	38.0	-
12:10 AM - 12:15 AM	46.6	46.7	-	n/a	38.2	-
12:15 AM - 12:20 AM	44.1	48.0	-	n/a	37.9	-
12:20 AM - 12:25 AM	40.0	43.3	-	n/a	37.9	-

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551095-1

Sample No. 25114636-21
Parameter เสียงรบกวน
Location ปานผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	42.0	42.9	-	n/a	37.3	-
12:30 AM - 12:35 AM	39.8	41.8	-	n/a	37.4	-
12:35 AM - 12:40 AM	39.9	40.5	-	n/a	38.4	-
12:40 AM - 12:45 AM	41.2	40.6	-	35.3	38.2	-2.9
12:45 AM - 12:50 AM	40.0	41.4	-	n/a	38.3	-
12:50 AM - 12:55 AM	39.8	38.6	-	36.6	37.5	-0.9
12:55 AM - 01:00 AM	39.0	38.4	-	33.1	38.0	-4.9
01:00 AM - 01:05 AM	38.8	38.1	-	33.5	37.6	-4.1
01:05 AM - 01:10 AM	39.7	38.5	-	36.5	37.4	-0.9
01:10 AM - 01:15 AM	39.7	38.8	-	35.4	37.4	-2.0
01:15 AM - 01:20 AM	38.7	38.5	-	28.2	37.5	-9.3
01:20 AM - 01:25 AM	39.9	39.2	-	34.6	36.9	-2.3
01:25 AM - 01:30 AM	39.8	40.7	-	n/a	37.4	-
01:30 AM - 01:35 AM	38.8	38.8	-	n/a	36.5	-
01:35 AM - 01:40 AM	38.5	38.5	-	n/a	37.3	-
01:40 AM - 01:45 AM	38.9	38.3	-	33.0	37.4	-4.4
01:45 AM - 01:50 AM	38.9	38.3	-	33.0	37.2	-4.2
01:50 AM - 01:55 AM	37.8	38.5	-	n/a	36.6	-
01:55 AM - 02:00 AM	44.6	50.5	-	n/a	37.1	-
02:00 AM - 02:05 AM	36.5	37.2	-	n/a	37.4	-
02:05 AM - 02:10 AM	37.1	37.7	-	n/a	37.5	-
02:10 AM - 02:15 AM	37.8	39.2	-	n/a	37.8	-
02:15 AM - 02:20 AM	54.1	57.5	-	n/a	37.9	-
02:20 AM - 02:25 AM	38.5	39.9	-	n/a	38.9	-
02:25 AM - 02:30 AM	38.1	39.2	-	n/a	38.2	-
02:30 AM - 02:35 AM	37.6	39.8	-	n/a	38.6	-
02:35 AM - 02:40 AM	38.4	39.6	-	n/a	38.5	-
02:40 AM - 02:45 AM	39.7	41.9	-	n/a	38.5	-
02:45 AM - 02:50 AM	38.5	42.1	-	n/a	37.7	-
02:50 AM - 02:55 AM	37.4	39.3	-	n/a	37.5	-
02:55 AM - 03:00 AM	38.7	41.8	-	n/a	37.0	-
03:00 AM - 03:05 AM	38.0	43.4	-	n/a	37.0	-
03:05 AM - 03:10 AM	38.1	40.7	-	n/a	37.9	-
03:10 AM - 03:15 AM	37.1	40.0	-	n/a	38.2	-
03:15 AM - 03:20 AM	37.1	38.7	-	n/a	38.0	-
03:20 AM - 03:25 AM	36.9	39.0	-	n/a	37.9	-
03:25 AM - 03:30 AM	37.3	39.1	-	n/a	37.0	-
03:30 AM - 03:35 AM	45.9	39.3	-	47.8	38.4	9.4
03:35 AM - 03:40 AM	45.1	56.3	-	n/a	38.7	-
03:40 AM - 03:45 AM	37.7	40.8	-	n/a	38.3	-

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Approved by
Kanokkorn Anek
Assistant General Manager

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551095-1

Sample No. 25114636-21
Parameter เสียงรบกวน
Location บ้านผาเสด็จ (GPS 47P 0726620, 1619809)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00658239

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	38.2	40.4	-	n/a	38.2	-
03:50 AM - 03:55 AM	38.2	40.3	-	n/a	39.3	-
03:55 AM - 04:00 AM	37.5	39.7	-	n/a	39.0	-
04:00 AM - 04:05 AM	48.6	54.2	-	n/a	39.3	-
04:05 AM - 04:10 AM	42.2	52.3	-	n/a	38.6	-
04:10 AM - 04:15 AM	39.2	41.8	-	n/a	39.7	-
04:15 AM - 04:20 AM	49.1	53.7	-	n/a	39.9	-
04:20 AM - 04:25 AM	47.6	53.3	-	n/a	40.1	-
04:25 AM - 04:30 AM	48.3	51.8	-	n/a	40.1	-
04:30 AM - 04:35 AM	51.3	56.4	-	n/a	40.1	-
04:35 AM - 04:40 AM	44.2	53.3	-	n/a	40.2	-
04:40 AM - 04:45 AM	50.5	46.5	-	51.3	40.3	11.0
04:45 AM - 04:50 AM	51.3	57.1	-	n/a	40.1	-
04:50 AM - 04:55 AM	48.1	54.8	-	n/a	39.9	-
04:55 AM - 05:00 AM	51.9	56.5	-	n/a	40.8	-
05:00 AM - 05:05 AM	52.3	56.7	-	n/a	39.9	-
05:05 AM - 05:10 AM	53.4	57.3	-	n/a	41.0	-
05:10 AM - 05:15 AM	50.0	56.5	-	n/a	41.2	-
05:15 AM - 05:20 AM	52.3	55.3	-	n/a	41.4	-
05:20 AM - 05:25 AM	53.9	58.3	-	n/a	41.2	-
05:25 AM - 05:30 AM	53.6	59.0	-	n/a	41.3	-
05:30 AM - 05:35 AM	55.7	59.3	-	n/a	41.5	-
05:35 AM - 05:40 AM	57.2	61.3	-	n/a	41.6	-
05:40 AM - 05:45 AM	57.9	62.1	-	n/a	43.2	-
05:45 AM - 05:50 AM	54.7	61.0	-	n/a	48.9	-
05:50 AM - 05:55 AM	52.4	59.6	-	n/a	46.4	-
05:55 AM - 06:00 AM	51.8	57.6	-	n/a	44.6	-
06:00 AM - 07:00 AM	52.5	57.8	n/a	-	45.3	-
07:00 AM - 08:00 AM	55.2	59.0	n/a	-	44.4	-
08:00 AM - 09:00 AM	63.0	61.9	56.5	-	45.5	11.0
09:00 AM - 10:00 AM	49.9	56.7	n/a	-	46.3	-
10:00 AM - 11:00 AM	52.9	56.1	n/a	-	45.3	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานลักษณะทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 08-09 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-21 วันที่ตรวจวัด 08-09 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551096-1

Sample No. 25114636-22
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	62.9	62.7	49.4	-	60.4	-11.0
12:00 PM - 01:00 PM	60.7	60.7	n/a	-	58.8	-
01:00 PM - 02:00 PM	61.2	61.2	n/a	-	59.1	-
02:00 PM - 03:00 PM	61.9	62.1	n/a	-	60.4	-
03:00 PM - 04:00 PM	63.5	62.3	57.3	-	59.8	-2.5
04:00 PM - 05:00 PM	60.8	61.3	n/a	-	59.2	-
05:00 PM - 06:00 PM	61.8	61.6	48.3	-	60.0	-11.7
06:00 PM - 07:00 PM	62.5	63.0	n/a	-	61.0	-
07:00 PM - 08:00 PM	61.4	61.3	45.0	-	59.9	-14.9
08:00 PM - 09:00 PM	63.3	62.1	57.1	-	60.0	-2.9
09:00 PM - 10:00 PM	62.3	61.6	54.0	-	60.0	-6.0
10:00 PM - 10:05 PM	62.2	60.3	-	60.7	58.7	2.0
10:05 PM - 10:10 PM	61.5	62.1	-	n/a	59.5	-
10:10 PM - 10:15 PM	62.6	60.9	-	60.7	59.7	1.0
10:15 PM - 10:20 PM	62.5	62.0	-	55.9	59.7	-3.8
10:20 PM - 10:25 PM	61.0	62.3	-	n/a	60.4	-
10:25 PM - 10:30 PM	62.6	61.5	-	59.1	60.0	-0.9
10:30 PM - 10:35 PM	60.5	62.7	-	n/a	60.0	-
10:35 PM - 10:40 PM	61.1	60.4	-	55.8	59.2	-3.4
10:40 PM - 10:45 PM	61.9	61.0	-	57.6	59.5	-1.9
10:45 PM - 10:50 PM	60.2	61.4	-	n/a	59.9	-
10:50 PM - 10:55 PM	60.7	60.0	-	55.4	58.8	-3.4
10:55 PM - 11:00 PM	60.0	60.1	-	n/a	58.2	-
11:00 PM - 11:05 PM	60.4	59.5	-	56.1	57.9	-1.8
11:05 PM - 11:10 PM	61.4	59.2	-	60.4	57.1	3.3
11:10 PM - 11:15 PM	61.6	60.0	-	59.5	57.0	2.5
11:15 PM - 11:20 PM	59.8	60.0	-	n/a	56.7	-
11:20 PM - 11:25 PM	59.2	58.7	-	52.6	57.4	-4.8
11:25 PM - 11:30 PM	59.4	58.5	-	55.1	56.9	-1.8
11:30 PM - 11:35 PM	60.0	58.7	-	57.1	56.9	0.2
11:35 PM - 11:40 PM	59.5	59.2	-	50.7	56.8	-6.1
11:40 PM - 11:45 PM	61.3	58.7	-	60.8	57.0	3.8
11:45 PM - 11:50 PM	61.5	60.2	-	58.6	57.8	0.8
11:50 PM - 11:55 PM	60.2	59.9	-	51.4	57.2	-5.8
11:55 PM - 12:00 AM	59.4	59.2	-	48.9	57.6	-8.7
12:00 AM - 12:05 AM	60.1	58.4	-	58.2	57.2	1.0
12:05 AM - 12:10 AM	60.3	58.8	-	58.0	57.3	0.7
12:10 AM - 12:15 AM	59.6	59.8	-	n/a	58.7	-
12:15 AM - 12:20 AM	61.6	59.5	-	60.4	58.3	2.1
12:20 AM - 12:25 AM	62.7	60.9	-	61.0	58.0	3.0

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551096-1

Sample No. 25114636-22
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	59.5	61.4	-	n/a	58.0	-
12:30 AM - 12:35 AM	58.3	58.4	-	n/a	56.5	-
12:35 AM - 12:40 AM	60.5	58.3	-	59.5	56.3	3.2
12:40 AM - 12:45 AM	61.6	58.9	-	61.3	56.2	5.1
12:45 AM - 12:50 AM	61.7	60.6	-	58.2	57.5	0.7
12:50 AM - 12:55 AM	62.2	61.0	-	59.0	58.7	0.3
12:55 AM - 01:00 AM	59.5	61.8	-	n/a	58.8	-
01:00 AM - 01:05 AM	62.8	59.8	-	62.8	58.6	4.2
01:05 AM - 01:10 AM	62.2	61.5	-	56.9	59.4	-2.5
01:10 AM - 01:15 AM	61.7	61.3	-	54.1	59.2	-5.1
01:15 AM - 01:20 AM	62.5	60.9	-	60.4	58.9	1.5
01:20 AM - 01:25 AM	61.5	61.3	-	51.0	58.8	-7.8
01:25 AM - 01:30 AM	61.1	60.9	-	50.6	59.2	-8.6
01:30 AM - 01:35 AM	61.7	60.4	-	58.8	58.9	-0.1
01:35 AM - 01:40 AM	59.8	61.1	-	n/a	58.8	-
01:40 AM - 01:45 AM	62.1	60.3	-	60.4	58.6	1.8
01:45 AM - 01:50 AM	61.6	76.9	-	n/a	58.3	-
01:50 AM - 01:55 AM	62.4	61.5	-	58.1	59.5	-1.4
01:55 AM - 02:00 AM	63.1	61.6	-	60.8	59.0	1.8
02:00 AM - 02:05 AM	60.1	61.6	-	n/a	59.6	-
02:05 AM - 02:10 AM	61.0	59.8	-	57.8	58.6	-0.8
02:10 AM - 02:15 AM	61.3	60.5	-	56.6	58.9	-2.3
02:15 AM - 02:20 AM	61.1	61.1	-	n/a	59.0	-
02:20 AM - 02:25 AM	60.7	60.7	-	n/a	58.6	-
02:25 AM - 02:30 AM	61.6	60.7	-	57.3	59.4	-2.1
02:30 AM - 02:35 AM	60.0	61.3	-	n/a	59.8	-
02:35 AM - 02:40 AM	61.2	59.9	-	58.3	58.8	-0.5
02:40 AM - 02:45 AM	60.4	60.9	-	n/a	58.6	-
02:45 AM - 02:50 AM	59.7	60.4	-	n/a	58.4	-
02:50 AM - 02:55 AM	62.5	59.5	-	62.5	58.5	4.0
02:55 AM - 03:00 AM	62.5	61.4	-	59.0	58.8	0.2
03:00 AM - 03:05 AM	63.0	61.5	-	60.7	58.6	2.1
03:05 AM - 03:10 AM	61.6	61.0	-	55.7	58.5	-2.8
03:10 AM - 03:15 AM	62.3	60.9	-	59.7	58.9	0.8
03:15 AM - 03:20 AM	60.0	61.9	-	n/a	58.4	-
03:20 AM - 03:25 AM	60.7	59.8	-	56.4	58.1	-1.7
03:25 AM - 03:30 AM	59.4	60.0	-	n/a	58.8	-
03:30 AM - 03:35 AM	60.1	59.1	-	56.2	57.9	-1.7
03:35 AM - 03:40 AM	59.1	59.6	-	n/a	57.9	-
03:40 AM - 03:45 AM	59.5	59.0	-	52.9	57.8	-4.9

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551096-1

Sample No. 25114636-22
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	60.1	59.3	-	55.4	57.9	-2.5
03:50 AM - 03:55 AM	60.4	60.1	-	51.6	58.1	-6.5
03:55 AM - 04:00 AM	59.6	60.3	-	n/a	58.2	-
04:00 AM - 04:05 AM	60.7	59.5	-	57.5	58.4	-0.9
04:05 AM - 04:10 AM	59.8	60.2	-	n/a	58.2	-
04:10 AM - 04:15 AM	60.7	59.7	-	56.8	57.9	-1.1
04:15 AM - 04:20 AM	60.6	60.4	-	50.1	58.1	-8.0
04:20 AM - 04:25 AM	59.8	59.6	-	49.3	58.1	-8.8
04:25 AM - 04:30 AM	61.1	59.4	-	59.2	58.2	1.0
04:30 AM - 04:35 AM	60.9	60.8	-	47.5	58.4	-10.9
04:35 AM - 04:40 AM	61.1	61.3	-	n/a	57.7	-
04:40 AM - 04:45 AM	62.5	60.5	-	61.2	59.5	1.7
04:45 AM - 04:50 AM	61.6	61.8	-	n/a	59.3	-
04:50 AM - 04:55 AM	62.1	61.3	-	57.4	58.1	-0.7
04:55 AM - 05:00 AM	62.4	60.6	-	60.7	58.1	2.6
05:00 AM - 05:05 AM	63.1	62.5	-	57.2	58.8	-1.6
05:05 AM - 05:10 AM	62.0	62.0	-	n/a	58.6	-
05:10 AM - 05:15 AM	61.6	60.8	-	56.9	59.5	-2.6
05:15 AM - 05:20 AM	61.6	63.0	-	n/a	60.0	-
05:20 AM - 05:25 AM	61.4	63.4	-	n/a	59.5	-
05:25 AM - 05:30 AM	59.8	60.8	-	n/a	58.3	-
05:30 AM - 05:35 AM	61.3	59.2	-	60.1	58.0	2.1
05:35 AM - 05:40 AM	60.9	60.3	-	55.0	57.9	-2.9
05:40 AM - 05:45 AM	60.8	60.4	-	53.2	57.7	-4.5
05:45 AM - 05:50 AM	62.0	60.5	-	59.7	58.4	1.3
05:50 AM - 05:55 AM	62.6	62.2	-	55.0	59.2	-4.2
05:55 AM - 06:00 AM	62.3	62.4	-	n/a	61.1	-
06:00 AM - 07:00 AM	62.2	61.3	54.9	-	59.1	-4.2
07:00 AM - 08:00 AM	61.8	62.0	n/a	-	60.3	-
08:00 AM - 09:00 AM	61.0	60.1	53.7	-	58.2	-4.5
09:00 AM - 10:00 AM	61.6	62.0	n/a	-	59.9	-
10:00 AM - 11:00 AM	61.2	61.0	47.7	-	59.6	-11.9
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 02-03 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-22 วันที่ตรวจวัด 02-03 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551097-1

Sample No. 25114636-23
Parameter เสียงรบกวน
Location จิมโร้วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	61.8	61.9	n/a	-	59.5	-
12:00 PM - 01:00 PM	62.0	61.9	45.6	-	59.7	-14.1
01:00 PM - 02:00 PM	61.3	62.6	n/a	-	61.0	-
02:00 PM - 03:00 PM	61.4	61.5	n/a	-	60.0	-
03:00 PM - 04:00 PM	61.1	61.4	n/a	-	59.7	-
04:00 PM - 05:00 PM	62.1	61.6	52.5	-	59.5	-7.0
05:00 PM - 06:00 PM	63.0	62.3	54.7	-	59.7	-5.0
06:00 PM - 07:00 PM	64.5	65.0	n/a	-	61.0	-
07:00 PM - 08:00 PM	62.8	62.1	54.5	-	59.3	-4.8
08:00 PM - 09:00 PM	63.0	61.3	58.1	-	59.1	-1.0
09:00 PM - 10:00 PM	62.3	62.7	n/a	-	59.6	-
10:00 PM - 10:05 PM	63.1	60.6	-	62.5	59.1	3.4
10:05 PM - 10:10 PM	64.1	62.6	-	61.8	59.7	2.1
10:10 PM - 10:15 PM	61.4	63.5	-	n/a	59.5	-
10:15 PM - 10:20 PM	61.2	61.0	-	50.7	59.4	-8.7
10:20 PM - 10:25 PM	60.6	60.9	-	n/a	59.3	-
10:25 PM - 10:30 PM	60.8	60.1	-	55.5	58.9	-3.4
10:30 PM - 10:35 PM	60.9	59.9	-	57.0	58.7	-1.7
10:35 PM - 10:40 PM	62.9	60.3	-	62.4	59.1	3.3
10:40 PM - 10:45 PM	62.8	61.4	-	60.2	59.0	1.2
10:45 PM - 10:50 PM	60.3	61.0	-	n/a	58.5	-
10:50 PM - 10:55 PM	61.3	59.5	-	59.6	58.5	1.1
10:55 PM - 11:00 PM	61.6	60.4	-	58.4	58.8	-0.4
11:00 PM - 11:05 PM	60.4	60.4	-	n/a	58.2	-
11:05 PM - 11:10 PM	60.7	59.6	-	57.2	58.0	-0.8
11:10 PM - 11:15 PM	60.4	59.8	-	54.5	58.4	-3.9
11:15 PM - 11:20 PM	60.7	59.6	-	57.2	58.6	-1.4
11:20 PM - 11:25 PM	60.1	59.5	-	54.2	58.3	-4.1
11:25 PM - 11:30 PM	60.4	59.1	-	57.5	57.5	0.0
11:30 PM - 11:35 PM	59.7	59.5	-	49.2	58.3	-9.1
11:35 PM - 11:40 PM	59.7	58.9	-	55.0	57.6	-2.6
11:40 PM - 11:45 PM	60.4	58.8	-	58.3	57.2	1.1
11:45 PM - 11:50 PM	59.3	59.2	-	45.9	57.3	-11.4
11:50 PM - 11:55 PM	59.6	58.1	-	57.3	56.5	0.8
11:55 PM - 12:00 AM	59.5	58.5	-	55.6	56.7	-1.1
12:00 AM - 12:05 AM	60.8	58.6	-	59.8	57.2	2.6
12:05 AM - 12:10 AM	60.3	59.6	-	55.0	57.4	-2.4
12:10 AM - 12:15 AM	62.7	59.3	-	63.0	57.6	5.4
12:15 AM - 12:20 AM	63.9	61.3	-	63.4	58.1	5.3
12:20 AM - 12:25 AM	60.2	63.1	-	n/a	58.3	-

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551097-1

Sample No. 25114636-23
Parameter เสียงรบกวน
Location จิมโร้วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	58.6	59.9	-	n/a	58.3	-
12:30 AM - 12:35 AM	58.6	58.3	-	49.8	56.4	-6.6
12:35 AM - 12:40 AM	61.9	58.2	-	62.5	56.4	6.1
12:40 AM - 12:45 AM	62.6	61.1	-	60.3	56.5	3.8
12:45 AM - 12:50 AM	67.5	61.7	-	69.2	57.6	11.6
12:50 AM - 12:55 AM	63.6	64.5	-	n/a	59.1	-
12:55 AM - 01:00 AM	59.4	63.2	-	n/a	59.0	-
01:00 AM - 01:05 AM	63.2	59.4	-	63.9	58.1	5.8
01:05 AM - 01:10 AM	60.4	62.3	-	n/a	58.2	-
01:10 AM - 01:15 AM	67.0	60.2	-	69.0	58.7	10.3
01:15 AM - 01:20 AM	60.2	65.4	-	n/a	59.1	-
01:20 AM - 01:25 AM	61.0	60.0	-	57.1	58.3	-1.2
01:25 AM - 01:30 AM	63.0	60.4	-	62.5	58.8	3.7
01:30 AM - 01:35 AM	62.7	62.5	-	52.2	58.4	-6.2
01:35 AM - 01:40 AM	61.5	61.9	-	n/a	59.1	-
01:40 AM - 01:45 AM	64.4	61.8	-	63.9	59.7	4.2
01:45 AM - 01:50 AM	60.7	63.9	-	n/a	58.9	-
01:50 AM - 01:55 AM	62.4	61.4	-	58.5	58.4	0.1
01:55 AM - 02:00 AM	60.9	61.1	-	n/a	58.6	-
02:00 AM - 02:05 AM	64.0	60.4	-	64.5	58.0	6.5
02:05 AM - 02:10 AM	61.7	63.4	-	n/a	58.1	-
02:10 AM - 02:15 AM	60.0	61.6	-	n/a	58.1	-
02:15 AM - 02:20 AM	64.2	59.5	-	65.4	58.2	7.2
02:20 AM - 02:25 AM	61.1	63.6	-	n/a	58.3	-
02:25 AM - 02:30 AM	62.5	62.6	-	n/a	59.3	-
02:30 AM - 02:35 AM	62.3	64.8	-	n/a	62.5	-
02:35 AM - 02:40 AM	63.6	61.3	-	62.7	58.1	4.6
02:40 AM - 02:45 AM	59.5	62.5	-	n/a	57.9	-
02:45 AM - 02:50 AM	63.1	58.9	-	64.0	57.8	6.2
02:50 AM - 02:55 AM	63.4	61.9	-	61.1	58.0	3.1
02:55 AM - 03:00 AM	63.2	62.5	-	57.9	58.2	-0.3
03:00 AM - 03:05 AM	60.9	62.3	-	n/a	58.4	-
03:05 AM - 03:10 AM	62.9	59.9	-	62.9	58.2	4.7
03:10 AM - 03:15 AM	61.7	62.7	-	n/a	58.4	-
03:15 AM - 03:20 AM	62.8	61.9	-	58.5	57.9	0.6
03:20 AM - 03:25 AM	62.4	61.4	-	58.5	57.8	0.7
03:25 AM - 03:30 AM	60.0	61.9	-	n/a	58.4	-
03:30 AM - 03:35 AM	58.9	59.7	-	n/a	58.0	-
03:35 AM - 03:40 AM	59.7	58.7	-	55.8	57.5	-1.7
03:40 AM - 03:45 AM	59.0	59.2	-	n/a	58.1	-

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551097-1

Sample No. 25114636-23
Parameter เสียงรบกวน
Location รินร็วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	59.8	58.7	-	56.3	57.6	-1.3
03:50 AM - 03:55 AM	59.4	59.3	-	46.0	57.6	-11.6
03:55 AM - 04:00 AM	60.1	58.8	-	57.2	57.5	-0.3
04:00 AM - 04:05 AM	59.4	59.7	-	n/a	58.0	-
04:05 AM - 04:10 AM	59.1	58.9	-	48.6	57.1	-8.5
04:10 AM - 04:15 AM	60.6	58.7	-	59.1	57.4	1.7
04:15 AM - 04:20 AM	60.3	59.7	-	54.4	58.3	-3.9
04:20 AM - 04:25 AM	59.9	60.4	-	n/a	58.1	-
04:25 AM - 04:30 AM	61.0	59.5	-	58.7	57.9	0.8
04:30 AM - 04:35 AM	61.9	62.8	-	n/a	59.0	-
04:35 AM - 04:40 AM	61.2	64.7	-	n/a	62.7	-
04:40 AM - 04:45 AM	62.5	63.5	-	n/a	62.5	-
04:45 AM - 04:50 AM	60.6	61.4	-	n/a	59.1	-
04:50 AM - 04:55 AM	60.2	59.7	-	53.6	58.4	-4.8
04:55 AM - 05:00 AM	60.5	60.4	-	47.1	57.7	-10.6
05:00 AM - 05:05 AM	60.8	59.9	-	56.5	58.6	-2.1
05:05 AM - 05:10 AM	60.2	60.3	-	n/a	58.4	-
05:10 AM - 05:15 AM	60.5	59.8	-	55.2	58.1	-2.9
05:15 AM - 05:20 AM	61.0	59.9	-	57.5	58.7	-1.2
05:20 AM - 05:25 AM	60.0	60.9	-	n/a	58.2	-
05:25 AM - 05:30 AM	61.1	59.4	-	59.2	58.2	1.0
05:30 AM - 05:35 AM	59.5	61.6	-	n/a	58.7	-
05:35 AM - 05:40 AM	60.5	59.3	-	57.3	58.1	-0.8
05:40 AM - 05:45 AM	61.6	60.4	-	58.4	58.8	-0.4
05:45 AM - 05:50 AM	61.9	61.4	-	55.3	59.8	-4.5
05:50 AM - 05:55 AM	62.5	65.7	-	n/a	62.9	-
05:55 AM - 06:00 AM	61.9	65.3	-	n/a	61.3	-
06:00 AM - 07:00 AM	61.5	60.8	53.2	-	59.5	-6.3
07:00 AM - 08:00 AM	61.9	60.6	56.0	-	59.0	-3.0
08:00 AM - 09:00 AM	62.6	61.8	54.9	-	59.8	-4.9
09:00 AM - 10:00 AM	62.8	62.2	53.9	-	60.3	-6.4
10:00 AM - 11:00 AM	63.3	62.9	52.7	-	60.8	-8.1
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 03-04 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-23 วันที่ตรวจวัด 03-04 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551098-1

Sample No. 25114636-24
Parameter เสียงรบกวน
Location รินร็วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	62.8	62.2	53.9	-	60.2	-6.3
12:00 PM - 01:00 PM	62.8	62.2	53.9	-	60.5	-6.6
01:00 PM - 02:00 PM	62.4	62.2	48.9	-	60.3	-11.4
02:00 PM - 03:00 PM	62.7	62.2	53.1	-	60.0	-6.9
03:00 PM - 04:00 PM	62.1	61.9	48.6	-	59.5	-10.9
04:00 PM - 05:00 PM	61.3	60.4	54.0	-	58.7	-4.7
05:00 PM - 06:00 PM	61.5	61.0	51.9	-	59.5	-7.6
06:00 PM - 07:00 PM	62.3	62.5	n/a	-	61.0	-
07:00 PM - 08:00 PM	62.5	61.0	57.2	-	59.2	-2.0
08:00 PM - 09:00 PM	61.5	61.2	49.7	-	59.1	-9.4
09:00 PM - 10:00 PM	61.7	61.5	48.2	-	59.2	-11.0
10:00 PM - 10:05 PM	60.3	61.0	-	n/a	59.6	-
10:05 PM - 10:10 PM	60.3	60.0	-	51.5	58.9	-7.4
10:10 PM - 10:15 PM	62.2	60.0	-	61.2	59.2	2.0
10:15 PM - 10:20 PM	62.1	61.8	-	53.3	58.9	-5.6
10:20 PM - 10:25 PM	60.7	61.8	-	n/a	59.0	-
10:25 PM - 10:30 PM	62.5	60.2	-	61.6	58.9	2.7
10:30 PM - 10:35 PM	62.8	61.1	-	60.9	59.1	1.8
10:35 PM - 10:40 PM	60.2	61.5	-	n/a	58.4	-
10:40 PM - 10:45 PM	60.5	59.9	-	54.6	58.6	-4.0
10:45 PM - 10:50 PM	60.0	60.3	-	n/a	58.7	-
10:50 PM - 10:55 PM	59.1	59.6	-	n/a	58.1	-
10:55 PM - 11:00 PM	59.7	58.9	-	55.0	56.9	-1.9
11:00 PM - 11:05 PM	60.0	59.2	-	55.3	57.4	-2.1
11:05 PM - 11:10 PM	59.8	59.1	-	54.5	57.8	-3.3
11:10 PM - 11:15 PM	60.1	59.1	-	56.2	57.9	-1.7
11:15 PM - 11:20 PM	60.7	59.2	-	58.4	57.5	0.9
11:20 PM - 11:25 PM	61.3	59.9	-	58.7	58.0	0.7
11:25 PM - 11:30 PM	60.1	60.2	-	n/a	57.8	-
11:30 PM - 11:35 PM	60.1	59.3	-	55.4	57.8	-2.4
11:35 PM - 11:40 PM	60.1	59.4	-	54.8	58.3	-3.5
11:40 PM - 11:45 PM	60.8	61.8	-	n/a	57.7	-
11:45 PM - 11:50 PM	59.1	59.5	-	n/a	57.3	-
11:50 PM - 11:55 PM	58.4	58.1	-	49.6	56.4	-6.8
11:55 PM - 12:00 AM	59.1	57.5	-	57.0	55.6	1.4
12:00 AM - 12:05 AM	59.1	58.2	-	54.8	56.5	-1.7
12:05 AM - 12:10 AM	59.8	58.1	-	57.9	56.9	1.0
12:10 AM - 12:15 AM	63.0	59.4	-	63.5	58.2	5.3
12:15 AM - 12:20 AM	62.2	62.7	-	n/a	59.0	-
12:20 AM - 12:25 AM	61.5	62.3	-	n/a	58.8	-

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Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551098-1

Sample No. 25114636-24
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	61.9	61.6	-	53.1	58.3	-5.2
12:30 AM - 12:35 AM	61.9	61.4	-	55.3	57.7	-2.4
12:35 AM - 12:40 AM	62.0	61.9	-	48.6	58.4	-9.8
12:40 AM - 12:45 AM	62.1	61.8	-	53.3	58.5	-5.2
12:45 AM - 12:50 AM	59.3	62.2	-	n/a	58.5	-
12:50 AM - 12:55 AM	59.9	59.4	-	53.3	58.5	-5.2
12:55 AM - 01:00 AM	60.3	59.7	-	54.4	58.0	-3.6
01:00 AM - 01:05 AM	61.0	60.5	-	54.4	58.3	-3.9
01:05 AM - 01:10 AM	60.3	60.0	-	51.5	58.8	-7.3
01:10 AM - 01:15 AM	62.7	59.9	-	62.5	58.5	4.0
01:15 AM - 01:20 AM	59.8	62.6	-	n/a	58.6	-
01:20 AM - 01:25 AM	60.6	59.5	-	57.1	58.5	-1.4
01:25 AM - 01:30 AM	63.3	60.1	-	63.5	58.6	4.9
01:30 AM - 01:35 AM	62.3	63.5	-	n/a	58.5	-
01:35 AM - 01:40 AM	62.1	62.1	-	n/a	58.2	-
01:40 AM - 01:45 AM	64.0	62.6	-	61.4	57.7	3.7
01:45 AM - 01:50 AM	61.8	63.3	-	n/a	58.8	-
01:50 AM - 01:55 AM	59.3	62.1	-	n/a	58.2	-
01:55 AM - 02:00 AM	62.1	59.3	-	61.9	58.0	3.9
02:00 AM - 02:05 AM	59.2	61.8	-	n/a	58.2	-
02:05 AM - 02:10 AM	60.0	58.9	-	56.5	58.0	-1.5
02:10 AM - 02:15 AM	59.3	59.5	-	n/a	58.3	-
02:15 AM - 02:20 AM	60.1	58.9	-	56.9	57.7	-0.8
02:20 AM - 02:25 AM	62.4	59.2	-	62.6	57.9	4.7
02:25 AM - 02:30 AM	59.5	61.8	-	n/a	58.6	-
02:30 AM - 02:35 AM	62.2	59.2	-	62.2	58.1	4.1
02:35 AM - 02:40 AM	64.4	61.4	-	64.4	58.0	6.4
02:40 AM - 02:45 AM	59.2	63.6	-	n/a	58.3	-
02:45 AM - 02:50 AM	63.6	59.0	-	64.8	57.7	7.1
02:50 AM - 02:55 AM	59.8	63.2	-	n/a	57.7	-
02:55 AM - 03:00 AM	63.0	59.8	-	63.2	58.2	5.0
03:00 AM - 03:05 AM	63.8	62.3	-	61.5	58.5	3.0
03:05 AM - 03:10 AM	62.9	62.5	-	55.3	59.0	-3.7
03:10 AM - 03:15 AM	60.2	62.7	-	n/a	57.9	-
03:15 AM - 03:20 AM	59.9	59.6	-	51.1	58.3	-7.2
03:20 AM - 03:25 AM	61.5	59.3	-	60.5	58.2	2.3
03:25 AM - 03:30 AM	62.2	61.4	-	57.5	57.2	0.3
03:30 AM - 03:35 AM	62.0	61.9	-	48.6	58.0	-9.4
03:35 AM - 03:40 AM	63.0	61.6	-	60.4	57.5	2.9
03:40 AM - 03:45 AM	60.6	62.0	-	n/a	58.3	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551098-1

Sample No. 25114636-24
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	60.4	59.9	-	53.8	58.4	-4.6
03:50 AM - 03:55 AM	63.8	59.4	-	64.8	58.3	6.5
03:55 AM - 04:00 AM	59.7	63.8	-	n/a	58.2	-
04:00 AM - 04:05 AM	62.5	59.2	-	62.8	58.0	4.8
04:05 AM - 04:10 AM	60.2	62.4	-	n/a	58.1	-
04:10 AM - 04:15 AM	62.5	59.5	-	62.5	58.2	4.3
04:15 AM - 04:20 AM	60.0	62.5	-	n/a	58.4	-
04:20 AM - 04:25 AM	61.9	59.1	-	61.7	58.1	3.6
04:25 AM - 04:30 AM	62.6	61.6	-	58.7	57.8	0.9
04:30 AM - 04:35 AM	60.3	62.0	-	n/a	58.1	-
04:35 AM - 04:40 AM	62.4	59.7	-	62.1	58.6	3.5
04:40 AM - 04:45 AM	62.8	62.4	-	55.2	58.8	-3.6
04:45 AM - 04:50 AM	60.7	61.0	-	n/a	58.9	-
04:50 AM - 04:55 AM	62.1	60.1	-	60.8	59.2	1.6
04:55 AM - 05:00 AM	60.6	60.6	-	n/a	58.9	-
05:00 AM - 05:05 AM	60.1	60.1	-	n/a	59.1	-
05:05 AM - 05:10 AM	60.2	59.6	-	54.3	58.6	-4.3
05:10 AM - 05:15 AM	59.8	59.9	-	n/a	58.8	-
05:15 AM - 05:20 AM	59.8	60.4	-	n/a	58.6	-
05:20 AM - 05:25 AM	60.4	59.2	-	57.2	57.1	0.1
05:25 AM - 05:30 AM	59.9	60.0	-	n/a	57.5	-
05:30 AM - 05:35 AM	59.7	59.0	-	54.4	57.6	-3.2
05:35 AM - 05:40 AM	59.8	59.0	-	55.1	57.6	-2.5
05:40 AM - 05:45 AM	60.0	58.9	-	56.5	57.7	-1.2
05:45 AM - 05:50 AM	62.4	59.4	-	62.4	57.9	4.5
05:50 AM - 05:55 AM	62.1	68.4	-	n/a	60.3	-
05:55 AM - 06:00 AM	59.5	62.6	-	n/a	59.7	-
06:00 AM - 07:00 AM	61.0	60.4	52.1	-	58.0	-5.9
07:00 AM - 08:00 AM	61.0	60.1	53.7	-	58.5	-4.8
08:00 AM - 09:00 AM	61.5	60.3	55.3	-	58.2	-2.9
09:00 AM - 10:00 AM	63.0	62.1	55.7	-	59.4	-3.7
10:00 AM - 11:00 AM	64.2	64.0	50.7	-	59.5	-8.8
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 04-05 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-24 วันที่ตรวจวัด 04-05 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551099-1

Sample No. 25114636-25
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	62.6	62.0	53.7	-	60.2	-6.5
12:00 PM - 01:00 PM	62.4	61.7	54.1	-	59.4	-5.3
01:00 PM - 02:00 PM	62.6	61.9	54.3	-	59.8	-5.5
02:00 PM - 03:00 PM	61.8	63.2	n/a	-	59.7	-
03:00 PM - 04:00 PM	60.6	60.1	51.0	-	58.4	-7.4
04:00 PM - 05:00 PM	61.7	63.4	n/a	-	59.2	-
05:00 PM - 06:00 PM	62.5	62.2	50.7	-	59.8	-9.1
06:00 PM - 07:00 PM	62.2	62.4	n/a	-	60.2	-
07:00 PM - 08:00 PM	60.9	60.8	44.5	-	58.8	-14.3
08:00 PM - 09:00 PM	61.2	60.6	52.3	-	59.1	-6.8
09:00 PM - 10:00 PM	60.2	59.9	48.4	-	58.8	-10.4
10:00 PM - 10:05 PM	60.7	60.9	-	n/a	59.0	-
10:05 PM - 10:10 PM	61.9	60.1	-	60.2	58.7	1.5
10:10 PM - 10:15 PM	61.0	61.7	-	n/a	59.1	-
10:15 PM - 10:20 PM	60.6	60.4	-	50.1	59.1	-9.0
10:20 PM - 10:25 PM	60.2	60.1	-	46.8	58.8	-12.0
10:25 PM - 10:30 PM	60.5	60.0	-	53.9	58.8	-4.9
10:30 PM - 10:35 PM	60.4	60.3	-	47.0	58.8	-11.8
10:35 PM - 10:40 PM	61.0	60.0	-	57.1	59.0	-1.9
10:40 PM - 10:45 PM	60.8	60.6	-	50.3	59.4	-9.1
10:45 PM - 10:50 PM	62.5	60.3	-	61.5	59.2	2.3
10:50 PM - 10:55 PM	60.0	59.1	-	55.7	57.2	-1.5
10:55 PM - 11:00 PM	59.5	58.4	-	56.0	56.3	-0.3
11:00 PM - 11:05 PM	60.3	58.7	-	58.2	57.0	1.2
11:05 PM - 11:10 PM	59.1	59.1	-	n/a	57.3	-
11:10 PM - 11:15 PM	57.4	58.4	-	n/a	56.6	-
11:15 PM - 11:20 PM	58.3	56.7	-	56.2	55.2	1.0
11:20 PM - 11:25 PM	59.4	57.4	-	58.1	55.8	2.3
11:25 PM - 11:30 PM	58.8	58.2	-	52.9	55.7	-2.8
11:30 PM - 11:35 PM	60.7	57.7	-	60.7	55.8	4.9
11:35 PM - 11:40 PM	58.8	58.4	-	51.2	56.0	-4.8
11:40 PM - 11:45 PM	58.6	57.7	-	54.3	55.7	-1.4
11:45 PM - 11:50 PM	58.3	57.9	-	50.7	55.2	-4.5
11:50 PM - 11:55 PM	57.9	57.0	-	53.6	55.2	-1.6
11:55 PM - 12:00 AM	58.1	57.0	-	54.6	55.2	-0.6
12:00 AM - 12:05 AM	58.3	56.9	-	55.7	55.2	0.5
12:05 AM - 12:10 AM	57.6	57.2	-	50.0	55.1	-5.1
12:10 AM - 12:15 AM	57.7	57.0	-	52.4	54.6	-2.2
12:15 AM - 12:20 AM	57.9	57.1	-	53.2	54.8	-1.6
12:20 AM - 12:25 AM	58.3	57.6	-	53.0	55.6	-2.6

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551099-1

Sample No. 25114636-25
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	58.0	58.4	-	n/a	56.3	-
12:30 AM - 12:35 AM	57.2	58.3	-	n/a	56.6	-
12:35 AM - 12:40 AM	58.7	57.5	-	55.5	56.1	-0.6
12:40 AM - 12:45 AM	58.0	59.3	-	n/a	57.3	-
12:45 AM - 12:50 AM	58.6	58.3	-	49.8	57.1	-7.3
12:50 AM - 12:55 AM	59.0	59.0	-	n/a	57.4	-
12:55 AM - 01:00 AM	58.3	59.2	-	n/a	57.7	-
01:00 AM - 01:05 AM	57.8	58.7	-	n/a	57.1	-
01:05 AM - 01:10 AM	59.6	58.1	-	57.3	57.1	0.2
01:10 AM - 01:15 AM	58.3	58.9	-	n/a	56.9	-
01:15 AM - 01:20 AM	58.5	58.4	-	45.1	57.4	-12.3
01:20 AM - 01:25 AM	58.4	58.6	-	n/a	57.5	-
01:25 AM - 01:30 AM	58.0	58.8	-	n/a	57.5	-
01:30 AM - 01:35 AM	58.0	58.5	-	n/a	57.3	-
01:35 AM - 01:40 AM	58.5	58.4	-	45.1	57.3	-12.2
01:40 AM - 01:45 AM	58.9	59.0	-	n/a	57.5	-
01:45 AM - 01:50 AM	59.6	59.3	-	50.8	57.9	-7.1
01:50 AM - 01:55 AM	59.8	59.4	-	52.2	57.6	-5.4
01:55 AM - 02:00 AM	60.8	60.0	-	56.1	58.1	-2.0
02:00 AM - 02:05 AM	58.1	60.6	-	n/a	58.7	-
02:05 AM - 02:10 AM	58.1	58.8	-	n/a	57.6	-
02:10 AM - 02:15 AM	60.5	58.5	-	59.2	57.5	1.7
02:15 AM - 02:20 AM	58.6	60.7	-	n/a	57.9	-
02:20 AM - 02:25 AM	58.4	58.9	-	n/a	57.4	-
02:25 AM - 02:30 AM	57.8	58.9	-	n/a	57.7	-
02:30 AM - 02:35 AM	57.8	58.3	-	n/a	57.1	-
02:35 AM - 02:40 AM	57.5	58.5	-	n/a	57.2	-
02:40 AM - 02:45 AM	57.6	58.2	-	n/a	57.2	-
02:45 AM - 02:50 AM	58.2	58.2	-	n/a	57.3	-
02:50 AM - 02:55 AM	58.1	58.8	-	n/a	57.3	-
02:55 AM - 03:00 AM	58.3	58.5	-	n/a	57.6	-
03:00 AM - 03:05 AM	60.0	59.5	-	53.4	57.4	-4.0
03:05 AM - 03:10 AM	57.7	59.5	-	n/a	57.4	-
03:10 AM - 03:15 AM	57.8	58.1	-	n/a	57.2	-
03:15 AM - 03:20 AM	58.9	58.4	-	52.3	57.5	-5.2
03:20 AM - 03:25 AM	58.5	59.1	-	n/a	57.8	-
03:25 AM - 03:30 AM	58.7	58.9	-	n/a	57.4	-
03:30 AM - 03:35 AM	58.5	60.0	-	n/a	58.3	-
03:35 AM - 03:40 AM	58.6	59.8	-	n/a	58.6	-
03:40 AM - 03:45 AM	58.0	59.0	-	n/a	57.9	-

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Approved by

Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551099-1

Sample No. 25114636-25
Parameter เสียงรบกวน
Location รินร็วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	57.8	58.1	-	n/a	57.0	-
03:50 AM - 03:55 AM	61.7	58.8	-	61.6	57.1	4.5
03:55 AM - 04:00 AM	57.5	60.5	-	n/a	57.7	-
04:00 AM - 04:05 AM	57.0	57.8	-	n/a	56.6	-
04:05 AM - 04:10 AM	57.6	57.4	-	47.1	56.5	-9.4
04:10 AM - 04:15 AM	57.4	57.2	-	46.9	56.1	-9.2
04:15 AM - 04:20 AM	58.2	57.6	-	52.3	56.3	-4.0
04:20 AM - 04:25 AM	58.0	58.2	-	n/a	56.9	-
04:25 AM - 04:30 AM	57.3	57.9	-	n/a	56.8	-
04:30 AM - 04:35 AM	58.3	57.4	-	54.0	56.4	-2.4
04:35 AM - 04:40 AM	58.5	58.3	-	48.0	56.9	-8.9
04:40 AM - 04:45 AM	57.8	58.2	-	n/a	56.8	-
04:45 AM - 04:50 AM	57.9	57.7	-	47.4	56.6	-9.2
04:50 AM - 04:55 AM	58.3	57.8	-	51.7	56.4	-4.7
04:55 AM - 05:00 AM	58.8	58.1	-	53.5	56.8	-3.3
05:00 AM - 05:05 AM	58.8	58.3	-	52.2	56.8	-4.6
05:05 AM - 05:10 AM	59.4	58.2	-	56.2	57.1	-0.9
05:10 AM - 05:15 AM	59.3	58.7	-	53.4	57.4	-4.0
05:15 AM - 05:20 AM	58.2	58.5	-	n/a	57.2	-
05:20 AM - 05:25 AM	59.0	57.9	-	55.5	56.5	-1.0
05:25 AM - 05:30 AM	58.9	58.4	-	52.3	57.1	-4.8
05:30 AM - 05:35 AM	60.2	58.3	-	58.7	57.3	1.4
05:35 AM - 05:40 AM	60.3	59.5	-	55.6	57.4	-1.8
05:40 AM - 05:45 AM	59.3	59.5	-	n/a	57.5	-
05:45 AM - 05:50 AM	60.9	58.7	-	59.9	56.8	3.1
05:50 AM - 05:55 AM	60.6	59.7	-	56.3	57.9	-1.6
05:55 AM - 06:00 AM	60.1	59.7	-	52.5	58.5	-6.0
06:00 AM - 07:00 AM	61.1	60.2	53.8	-	58.5	-4.7
07:00 AM - 08:00 AM	61.3	60.4	54.0	-	58.5	-4.5
08:00 AM - 09:00 AM	61.9	60.6	56.0	-	58.0	-2.0
09:00 AM - 10:00 AM	63.1	62.0	56.6	-	59.5	-2.9
10:00 AM - 11:00 AM	62.3	61.2	55.8	-	59.0	-3.2
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 05-06 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-25 วันที่ตรวจวัด 05-06 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551100-1

Sample No. 25114636-26
Parameter เสียงรบกวน
Location รินร็วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	61.7	61.5	48.2	-	59.1	-10.9
12:00 PM - 01:00 PM	61.1	60.8	49.3	-	58.6	-9.3
01:00 PM - 02:00 PM	61.5	61.1	50.9	-	58.8	-7.9
02:00 PM - 03:00 PM	60.9	60.4	51.3	-	58.5	-7.2
03:00 PM - 04:00 PM	61.3	60.6	53.0	-	58.4	-5.4
04:00 PM - 05:00 PM	61.5	60.9	52.6	-	58.6	-6.0
05:00 PM - 06:00 PM	61.2	60.5	52.9	-	58.5	-5.6
06:00 PM - 07:00 PM	61.6	61.6	n/a	-	59.8	-
07:00 PM - 08:00 PM	60.7	60.2	51.1	-	57.9	-6.8
08:00 PM - 09:00 PM	61.6	60.8	53.9	-	58.7	-4.8
09:00 PM - 10:00 PM	60.6	60.4	47.1	-	58.1	-11.0
10:00 PM - 10:05 PM	60.6	60.5	-	47.2	58.2	-11.0
10:05 PM - 10:10 PM	62.3	61.2	-	58.8	58.2	0.6
10:10 PM - 10:15 PM	60.2	61.7	-	n/a	57.7	-
10:15 PM - 10:20 PM	61.8	61.3	-	55.2	56.9	-1.7
10:20 PM - 10:25 PM	59.3	58.8	-	52.7	57.2	-4.5
10:25 PM - 10:30 PM	59.1	59.0	-	45.7	57.4	-11.7
10:30 PM - 10:35 PM	61.0	60.0	-	57.1	57.6	-0.5
10:35 PM - 10:40 PM	62.5	60.8	-	60.6	58.6	2.0
10:40 PM - 10:45 PM	61.0	61.1	-	n/a	58.8	-
10:45 PM - 10:50 PM	60.7	60.7	-	n/a	58.3	-
10:50 PM - 10:55 PM	59.5	60.3	-	n/a	57.6	-
10:55 PM - 11:00 PM	59.8	59.1	-	54.5	57.2	-2.7
11:00 PM - 11:05 PM	61.7	60.1	-	59.6	57.1	2.5
11:05 PM - 11:10 PM	59.5	59.2	-	50.7	57.4	-6.7
11:10 PM - 11:15 PM	59.1	58.9	-	48.6	57.0	-8.4
11:15 PM - 11:20 PM	58.9	59.9	-	n/a	57.0	-
11:20 PM - 11:25 PM	58.9	57.9	-	55.0	56.7	-1.7
11:25 PM - 11:30 PM	59.3	58.4	-	55.0	56.3	-1.3
11:30 PM - 11:35 PM	59.8	58.7	-	56.3	56.3	0.0
11:35 PM - 11:40 PM	58.7	57.6	-	55.2	56.0	-0.8
11:40 PM - 11:45 PM	58.4	57.7	-	53.1	55.9	-2.8
11:45 PM - 11:50 PM	58.4	56.7	-	56.5	54.8	1.7
11:50 PM - 11:55 PM	58.7	57.2	-	56.4	55.1	1.3
11:55 PM - 12:00 AM	58.3	56.8	-	56.0	54.7	1.3
12:00 AM - 12:05 AM	58.9	57.8	-	55.4	55.3	0.1
12:05 AM - 12:10 AM	58.4	57.1	-	55.5	55.3	0.2
12:10 AM - 12:15 AM	59.9	59.5	-	52.3	55.0	-2.7
12:15 AM - 12:20 AM	58.6	57.5	-	55.1	55.4	-0.3
12:20 AM - 12:25 AM	60.1	57.9	-	59.1	55.4	3.7

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551100-1

Sample No. 25114636-26
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	59.4	60.6	-	n/a	55.9	-
12:30 AM - 12:35 AM	58.3	57.8	-	51.7	56.2	-4.5
12:35 AM - 12:40 AM	58.7	58.3	-	51.1	56.6	-5.5
12:40 AM - 12:45 AM	59.3	58.5	-	54.6	56.8	-2.2
12:45 AM - 12:50 AM	58.9	59.5	-	n/a	57.8	-
12:50 AM - 12:55 AM	60.4	59.4	-	56.5	57.9	-1.4
12:55 AM - 01:00 AM	59.6	59.9	-	n/a	58.4	-
01:00 AM - 01:05 AM	59.1	59.2	-	n/a	57.6	-
01:05 AM - 01:10 AM	58.7	58.6	-	45.3	57.5	-12.2
01:10 AM - 01:15 AM	59.7	59.3	-	52.1	57.7	-5.6
01:15 AM - 01:20 AM	59.8	59.8	-	n/a	58.0	-
01:20 AM - 01:25 AM	58.7	58.8	-	n/a	57.5	-
01:25 AM - 01:30 AM	59.2	59.3	-	n/a	57.7	-
01:30 AM - 01:35 AM	59.5	59.3	-	49.0	58.2	-9.2
01:35 AM - 01:40 AM	60.2	60.1	-	46.8	58.6	-11.8
01:40 AM - 01:45 AM	58.9	59.0	-	n/a	57.4	-
01:45 AM - 01:50 AM	58.8	59.6	-	n/a	57.8	-
01:50 AM - 01:55 AM	58.5	58.6	-	n/a	57.3	-
01:55 AM - 02:00 AM	58.3	58.3	-	n/a	56.7	-
02:00 AM - 02:05 AM	58.6	58.0	-	52.7	56.4	-3.7
02:05 AM - 02:10 AM	59.4	58.4	-	55.5	57.1	-1.6
02:10 AM - 02:15 AM	59.5	58.6	-	55.2	57.1	-1.9
02:15 AM - 02:20 AM	60.1	59.4	-	54.8	57.9	-3.1
02:20 AM - 02:25 AM	60.0	59.7	-	51.2	58.4	-7.2
02:25 AM - 02:30 AM	59.4	59.4	-	n/a	58.3	-
02:30 AM - 02:35 AM	60.4	60.6	-	n/a	59.1	-
02:35 AM - 02:40 AM	59.8	60.7	-	n/a	58.7	-
02:40 AM - 02:45 AM	59.7	60.0	-	n/a	58.9	-
02:45 AM - 02:50 AM	59.6	59.9	-	n/a	58.6	-
02:50 AM - 02:55 AM	59.6	59.6	-	n/a	58.4	-
02:55 AM - 03:00 AM	59.2	59.4	-	n/a	58.3	-
03:00 AM - 03:05 AM	58.3	58.4	-	n/a	57.4	-
03:05 AM - 03:10 AM	59.7	58.9	-	55.0	56.9	-1.9
03:10 AM - 03:15 AM	58.2	58.0	-	47.7	56.4	-8.7
03:15 AM - 03:20 AM	58.7	57.7	-	54.8	56.3	-1.5
03:20 AM - 03:25 AM	59.8	58.8	-	55.9	56.2	-0.3
03:25 AM - 03:30 AM	59.4	58.2	-	56.2	56.6	-0.4
03:30 AM - 03:35 AM	59.3	58.6	-	54.0	57.0	-3.0
03:35 AM - 03:40 AM	60.5	57.7	-	60.3	56.4	3.9
03:40 AM - 03:45 AM	60.4	59.5	-	56.1	57.1	-1.0

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551100-1

Sample No. 25114636-26
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	59.9	58.8	-	56.4	57.1	-0.7
03:50 AM - 03:55 AM	58.8	58.5	-	50.0	57.0	-7.0
03:55 AM - 04:00 AM	58.9	57.7	-	55.7	56.2	-0.5
04:00 AM - 04:05 AM	61.2	59.4	-	59.5	56.5	3.0
04:05 AM - 04:10 AM	59.3	57.9	-	56.7	56.3	0.4
04:10 AM - 04:15 AM	60.1	57.9	-	59.1	56.4	2.7
04:15 AM - 04:20 AM	59.7	58.7	-	55.8	56.6	-0.8
04:20 AM - 04:25 AM	60.1	59.4	-	54.8	56.7	-1.9
04:25 AM - 04:30 AM	59.5	58.1	-	56.9	56.5	0.4
04:30 AM - 04:35 AM	60.4	58.8	-	58.3	57.0	1.3
04:35 AM - 04:40 AM	59.3	58.7	-	53.4	56.8	-3.4
04:40 AM - 04:45 AM	58.8	58.3	-	52.2	57.2	-5.0
04:45 AM - 04:50 AM	59.2	57.9	-	56.3	56.6	-0.3
04:50 AM - 04:55 AM	59.0	58.0	-	55.1	56.8	-1.7
04:55 AM - 05:00 AM	59.7	58.6	-	56.2	56.7	-0.5
05:00 AM - 05:05 AM	59.4	59.1	-	50.6	57.7	-7.1
05:05 AM - 05:10 AM	59.4	58.0	-	56.8	56.5	0.3
05:10 AM - 05:15 AM	59.9	58.3	-	57.8	57.1	0.7
05:15 AM - 05:20 AM	59.9	59.1	-	55.2	57.4	-2.2
05:20 AM - 05:25 AM	61.3	60.8	-	54.7	56.9	-2.2
05:25 AM - 05:30 AM	59.5	59.1	-	51.9	57.2	-5.3
05:30 AM - 05:35 AM	62.3	60.2	-	61.1	57.5	3.6
05:35 AM - 05:40 AM	60.3	58.7	-	58.2	57.1	1.1
05:40 AM - 05:45 AM	60.2	59.2	-	56.3	57.6	-1.3
05:45 AM - 05:50 AM	60.5	61.1	-	n/a	60.0	-
05:50 AM - 05:55 AM	61.1	64.5	-	n/a	62.1	-
05:55 AM - 06:00 AM	61.0	64.0	-	n/a	62.0	-
06:00 AM - 07:00 AM	61.4	60.7	53.1	-	59.0	-5.9
07:00 AM - 08:00 AM	60.9	59.8	54.4	-	57.9	-3.5
08:00 AM - 09:00 AM	60.7	59.9	53.0	-	57.9	-4.9
09:00 AM - 10:00 AM	62.0	63.8	n/a	-	61.8	-
10:00 AM - 11:00 AM	61.7	63.3	n/a	-	60.9	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 06-07 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-26 วันที่ตรวจวัด 06-07 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551101-1

Sample No. 25114636-27
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	61.7	61.2	52.1	-	58.9	-6.8
12:00 PM - 01:00 PM	62.3	63.2	n/a	-	59.8	-
01:00 PM - 02:00 PM	61.8	62.2	n/a	-	59.5	-
02:00 PM - 03:00 PM	62.4	64.5	n/a	-	60.8	-
03:00 PM - 04:00 PM	61.5	65.1	n/a	-	63.8	-
04:00 PM - 05:00 PM	61.3	62.0	n/a	-	59.3	-
05:00 PM - 06:00 PM	62.7	62.4	50.9	-	59.6	-8.7
06:00 PM - 07:00 PM	62.5	63.1	n/a	-	61.2	-
07:00 PM - 08:00 PM	63.2	62.2	56.3	-	59.6	-3.3
08:00 PM - 09:00 PM	63.4	62.1	57.5	-	59.7	-2.2
09:00 PM - 10:00 PM	63.0	62.3	54.7	-	59.9	-5.2
10:00 PM - 10:05 PM	61.6	60.8	-	56.9	59.8	-2.9
10:05 PM - 10:10 PM	63.2	62.0	-	60.0	60.1	-0.1
10:10 PM - 10:15 PM	62.8	61.8	-	58.9	59.6	-0.7
10:15 PM - 10:20 PM	60.3	60.4	-	n/a	59.3	-
10:20 PM - 10:25 PM	62.4	60.1	-	61.5	58.9	2.6
10:25 PM - 10:30 PM	60.2	61.0	-	n/a	59.0	-
10:30 PM - 10:35 PM	61.9	60.5	-	59.3	58.8	0.5
10:35 PM - 10:40 PM	61.1	60.6	-	54.5	58.4	-3.9
10:40 PM - 10:45 PM	60.1	59.7	-	52.5	58.6	-6.1
10:45 PM - 10:50 PM	60.7	60.8	-	n/a	59.6	-
10:50 PM - 10:55 PM	60.5	59.4	-	57.0	58.5	-1.5
10:55 PM - 11:00 PM	60.3	59.5	-	55.6	58.1	-2.5
11:00 PM - 11:05 PM	60.7	59.6	-	57.2	57.7	-0.5
11:05 PM - 11:10 PM	60.6	60.1	-	54.0	58.5	-4.5
11:10 PM - 11:15 PM	60.8	60.3	-	54.2	59.1	-4.9
11:15 PM - 11:20 PM	61.2	60.4	-	56.5	59.1	-2.6
11:20 PM - 11:25 PM	60.7	60.7	-	n/a	58.8	-
11:25 PM - 11:30 PM	60.9	60.2	-	55.6	58.9	-3.3
11:30 PM - 11:35 PM	60.1	59.6	-	53.5	58.0	-4.5
11:35 PM - 11:40 PM	59.5	58.3	-	56.3	56.8	-0.5
11:40 PM - 11:45 PM	59.1	58.7	-	51.5	57.7	-6.2
11:45 PM - 11:50 PM	59.7	58.9	-	55.0	57.5	-2.5
11:50 PM - 11:55 PM	60.9	59.4	-	58.6	57.2	1.4
11:55 PM - 12:00 AM	60.1	58.4	-	58.2	56.1	2.1
12:00 AM - 12:05 AM	60.3	59.5	-	55.6	56.8	-1.2
12:05 AM - 12:10 AM	59.4	58.3	-	55.9	56.4	-0.5
12:10 AM - 12:15 AM	62.1	59.4	-	61.8	57.8	4.0
12:15 AM - 12:20 AM	61.4	61.3	-	48.0	58.2	-10.2
12:20 AM - 12:25 AM	59.8	59.7	-	46.4	58.1	-11.7

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551101-1

Sample No. 25114636-27
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	61.6	59.5	-	60.4	58.2	2.2
12:30 AM - 12:35 AM	60.8	61.0	-	n/a	58.3	-
12:35 AM - 12:40 AM	61.0	60.8	-	50.5	59.4	-8.9
12:40 AM - 12:45 AM	62.7	63.1	-	n/a	59.6	-
12:45 AM - 12:50 AM	63.0	62.7	-	54.2	59.2	-5.0
12:50 AM - 12:55 AM	59.5	60.3	-	n/a	59.3	-
12:55 AM - 01:00 AM	63.1	62.0	-	59.6	59.6	0.0
01:00 AM - 01:05 AM	62.2	62.0	-	51.7	59.7	-8.0
01:05 AM - 01:10 AM	59.6	62.1	-	n/a	59.3	-
01:10 AM - 01:15 AM	64.9	62.6	-	64.0	58.8	5.2
01:15 AM - 01:20 AM	63.5	63.4	-	50.1	58.9	-8.8
01:20 AM - 01:25 AM	61.5	61.4	-	48.1	58.2	-10.1
01:25 AM - 01:30 AM	59.9	60.9	-	n/a	58.0	-
01:30 AM - 01:35 AM	58.8	59.1	-	n/a	58.0	-
01:35 AM - 01:40 AM	59.8	59.4	-	52.2	58.4	-6.2
01:40 AM - 01:45 AM	59.6	60.6	-	n/a	58.8	-
01:45 AM - 01:50 AM	62.7	59.4	-	63.0	58.1	4.9
01:50 AM - 01:55 AM	59.5	62.4	-	n/a	58.2	-
01:55 AM - 02:00 AM	58.9	59.2	-	n/a	57.8	-
02:00 AM - 02:05 AM	63.2	62.0	-	60.0	58.4	1.6
02:05 AM - 02:10 AM	63.3	61.8	-	61.0	58.6	2.4
02:10 AM - 02:15 AM	59.2	60.6	-	n/a	58.0	-
02:15 AM - 02:20 AM	63.5	61.7	-	61.8	58.2	3.6
02:20 AM - 02:25 AM	61.9	61.7	-	51.4	58.6	-7.2
02:25 AM - 02:30 AM	60.3	60.6	-	n/a	57.7	-
02:30 AM - 02:35 AM	65.5	62.8	-	65.2	58.6	6.6
02:35 AM - 02:40 AM	58.6	60.7	-	n/a	57.5	-
02:40 AM - 02:45 AM	59.4	58.5	-	55.1	57.3	-2.2
02:45 AM - 02:50 AM	63.8	61.4	-	63.1	58.0	5.1
02:50 AM - 02:55 AM	61.6	62.0	-	n/a	57.8	-
02:55 AM - 03:00 AM	60.2	60.0	-	49.7	58.0	-8.3
03:00 AM - 03:05 AM	64.3	60.6	-	64.9	58.3	6.6
03:05 AM - 03:10 AM	61.6	61.5	-	48.2	58.4	-10.2
03:10 AM - 03:15 AM	60.3	60.2	-	46.9	58.4	-11.5
03:15 AM - 03:20 AM	61.9	61.2	-	56.6	58.7	-2.1
03:20 AM - 03:25 AM	62.2	59.5	-	61.9	58.2	3.7
03:25 AM - 03:30 AM	59.2	61.1	-	n/a	58.4	-
03:30 AM - 03:35 AM	61.5	59.3	-	60.5	58.3	2.2
03:35 AM - 03:40 AM	60.1	61.0	-	n/a	58.5	-
03:40 AM - 03:45 AM	62.9	59.9	-	62.9	58.5	4.4

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551101-1

Sample No. 25114636-27
Parameter เสียงรบกวน
Location รินร็วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	62.5	62.7	-	n/a	58.5	-
03:50 AM - 03:55 AM	60.7	60.4	-	51.9	58.6	-6.7
03:55 AM - 04:00 AM	59.4	59.0	-	51.8	57.8	-6.0
04:00 AM - 04:05 AM	59.0	59.0	-	n/a	57.8	-
04:05 AM - 04:10 AM	59.8	59.3	-	53.2	58.4	-5.2
04:10 AM - 04:15 AM	62.1	60.4	-	60.2	58.6	1.6
04:15 AM - 04:20 AM	59.6	59.7	-	n/a	58.4	-
04:20 AM - 04:25 AM	59.7	59.4	-	50.9	58.0	-7.1
04:25 AM - 04:30 AM	60.3	60.5	-	n/a	58.6	-
04:30 AM - 04:35 AM	59.3	59.5	-	n/a	58.3	-
04:35 AM - 04:40 AM	61.2	60.1	-	57.7	58.3	-0.6
04:40 AM - 04:45 AM	60.0	60.6	-	n/a	58.9	-
04:45 AM - 04:50 AM	63.2	59.5	-	63.8	58.0	5.8
04:50 AM - 04:55 AM	62.0	61.4	-	56.1	58.1	-2.0
04:55 AM - 05:00 AM	61.9	61.8	-	48.5	58.1	-9.6
05:00 AM - 05:05 AM	59.1	60.2	-	n/a	58.2	-
05:05 AM - 05:10 AM	63.0	59.0	-	63.8	57.9	5.9
05:10 AM - 05:15 AM	59.6	62.1	-	n/a	58.5	-
05:15 AM - 05:20 AM	59.9	59.3	-	54.0	58.1	-4.1
05:20 AM - 05:25 AM	59.9	59.5	-	52.3	58.2	-5.9
05:25 AM - 05:30 AM	60.5	60.1	-	52.9	58.4	-5.5
05:30 AM - 05:35 AM	61.0	60.0	-	57.1	58.6	-1.5
05:35 AM - 05:40 AM	59.9	59.9	-	n/a	58.4	-
05:40 AM - 05:45 AM	63.6	62.0	-	61.5	58.5	3.0
05:45 AM - 05:50 AM	61.2	62.0	-	n/a	58.5	-
05:50 AM - 05:55 AM	62.6	63.1	-	n/a	60.8	-
05:55 AM - 06:00 AM	60.9	61.1	-	n/a	59.5	-
06:00 AM - 07:00 AM	61.3	61.0	49.5	-	59.4	-9.9
07:00 AM - 08:00 AM	60.6	59.9	52.3	-	58.1	-5.8
08:00 AM - 09:00 AM	60.7	59.9	53.0	-	58.0	-5.0
09:00 AM - 10:00 AM	61.9	61.6	50.1	-	59.5	-9.4
10:00 AM - 11:00 AM	61.4	60.9	51.8	-	59.0	-7.2
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 07-08 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-27 วันที่ตรวจวัด 07-08 เมษายน 2569)
3. ก/ล: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551102-1

Sample No. 25114636-28
Parameter เสียงรบกวน
Location รินร็วด้านหน้าโรงงาน (ระยะต่ำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจาก แหล่งกำเนิด	เสียงขณะ ไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับ การรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	61.7	61.5	48.2	-	58.9	-10.7
12:00 PM - 01:00 PM	61.8	61.5	50.0	-	59.8	-9.8
01:00 PM - 02:00 PM	62.9	62.1	55.2	-	59.5	-4.3
02:00 PM - 03:00 PM	62.0	61.6	51.4	-	60.8	-9.4
03:00 PM - 04:00 PM	61.7	61.4	49.9	-	63.8	-13.9
04:00 PM - 05:00 PM	62.1	62.1	n/a	-	59.3	-
05:00 PM - 06:00 PM	63.7	63.0	55.4	-	59.6	-4.2
06:00 PM - 07:00 PM	63.1	63.0	46.7	-	61.2	-14.5
07:00 PM - 08:00 PM	62.1	61.3	54.4	-	59.6	-5.2
08:00 PM - 09:00 PM	62.3	61.6	54.0	-	59.7	-5.7
09:00 PM - 10:00 PM	60.7	59.9	53.0	-	59.9	-6.9
10:00 PM - 10:05 PM	60.3	59.6	-	55.0	59.8	-4.8
10:05 PM - 10:10 PM	62.8	61.9	-	58.5	60.1	-1.6
10:10 PM - 10:15 PM	61.1	60.8	-	52.3	59.6	-7.3
10:15 PM - 10:20 PM	60.1	59.8	-	51.3	59.3	-8.0
10:20 PM - 10:25 PM	60.8	60.5	-	52.0	58.9	-6.9
10:25 PM - 10:30 PM	60.2	60.0	-	49.7	59.0	-9.3
10:30 PM - 10:35 PM	61.0	60.3	-	55.7	58.8	-3.1
10:35 PM - 10:40 PM	61.2	60.4	-	56.5	58.4	-1.9
10:40 PM - 10:45 PM	59.9	59.7	-	49.4	58.6	-9.2
10:45 PM - 10:50 PM	60.7	60.0	-	55.4	59.6	-4.2
10:50 PM - 10:55 PM	62.2	61.8	-	54.6	58.5	-3.9
10:55 PM - 11:00 PM	60.7	60.2	-	54.1	58.1	-4.0
11:00 PM - 11:05 PM	62.4	61.7	-	57.1	57.7	-0.6
11:05 PM - 11:10 PM	60.8	61.1	-	n/a	58.5	-
11:10 PM - 11:15 PM	67.0	69.3	-	n/a	59.1	-
11:15 PM - 11:20 PM	60.3	66.6	-	n/a	59.1	-
11:20 PM - 11:25 PM	59.7	59.9	-	n/a	58.8	-
11:25 PM - 11:30 PM	60.1	59.8	-	51.3	58.9	-7.6
11:30 PM - 11:35 PM	62.0	61.1	-	57.7	58.0	-0.3
11:35 PM - 11:40 PM	60.4	60.4	-	n/a	56.8	-
11:40 PM - 11:45 PM	59.8	60.0	-	n/a	57.7	-
11:45 PM - 11:50 PM	60.4	60.0	-	52.8	57.5	-4.7
11:50 PM - 11:55 PM	59.6	59.5	-	46.2	57.2	-11.0
11:55 PM - 12:00 AM	60.7	61.0	-	n/a	56.1	-
12:00 AM - 12:05 AM	60.6	60.0	-	54.7	56.8	-2.1
12:05 AM - 12:10 AM	59.9	59.4	-	53.3	56.4	-3.1
12:10 AM - 12:15 AM	60.3	60.5	-	n/a	57.8	-
12:15 AM - 12:20 AM	60.3	60.0	-	51.5	58.2	-6.7
12:20 AM - 12:25 AM	59.5	59.5	-	n/a	58.1	-

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Approved by
Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551102-1

Sample No. 25114636-28
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	58.9	59.8	-	n/a	58.2	-
12:30 AM - 12:35 AM	61.5	59.1	-	60.8	58.3	2.5
12:35 AM - 12:40 AM	59.3	61.6	-	n/a	59.4	-
12:40 AM - 12:45 AM	59.2	59.6	-	n/a	59.6	-
12:45 AM - 12:50 AM	59.0	59.4	-	n/a	59.2	-
12:50 AM - 12:55 AM	59.5	59.5	-	n/a	59.3	-
12:55 AM - 01:00 AM	58.8	59.5	-	n/a	59.6	-
01:00 AM - 01:05 AM	59.8	59.4	-	52.2	59.7	-7.5
01:05 AM - 01:10 AM	59.9	60.0	-	n/a	59.3	-
01:10 AM - 01:15 AM	58.9	59.3	-	n/a	58.8	-
01:15 AM - 01:20 AM	59.0	59.3	-	n/a	58.9	-
01:20 AM - 01:25 AM	59.4	59.2	-	48.9	58.2	-9.3
01:25 AM - 01:30 AM	58.8	59.3	-	n/a	58.0	-
01:30 AM - 01:35 AM	59.4	59.2	-	48.9	58.0	-9.1
01:35 AM - 01:40 AM	58.9	59.3	-	n/a	58.4	-
01:40 AM - 01:45 AM	59.8	59.7	-	46.4	58.8	-12.4
01:45 AM - 01:50 AM	59.0	59.2	-	n/a	58.1	-
01:50 AM - 01:55 AM	58.8	58.9	-	n/a	58.2	-
01:55 AM - 02:00 AM	58.4	58.8	-	n/a	57.8	-
02:00 AM - 02:05 AM	59.7	59.3	-	52.1	58.4	-6.3
02:05 AM - 02:10 AM	60.0	60.0	-	n/a	58.6	-
02:10 AM - 02:15 AM	59.5	59.7	-	n/a	58.0	-
02:15 AM - 02:20 AM	60.6	60.3	-	51.8	58.2	-6.4
02:20 AM - 02:25 AM	62.3	62.8	-	n/a	58.6	-
02:25 AM - 02:30 AM	59.6	60.3	-	n/a	57.7	-
02:30 AM - 02:35 AM	60.0	59.4	-	54.1	58.6	-4.5
02:35 AM - 02:40 AM	59.8	60.2	-	n/a	57.5	-
02:40 AM - 02:45 AM	60.2	60.0	-	49.7	57.3	-7.6
02:45 AM - 02:50 AM	60.0	60.4	-	n/a	58.0	-
02:50 AM - 02:55 AM	60.1	59.7	-	52.5	57.8	-5.3
02:55 AM - 03:00 AM	60.1	60.2	-	n/a	58.0	-
03:00 AM - 03:05 AM	60.9	61.4	-	n/a	58.3	-
03:05 AM - 03:10 AM	60.5	60.9	-	n/a	58.4	-
03:10 AM - 03:15 AM	61.2	60.5	-	55.9	58.4	-2.5
03:15 AM - 03:20 AM	60.2	60.5	-	n/a	58.7	-
03:20 AM - 03:25 AM	59.3	59.5	-	n/a	58.2	-
03:25 AM - 03:30 AM	59.2	58.9	-	50.4	58.4	-8.0
03:30 AM - 03:35 AM	59.9	59.5	-	52.3	58.3	-6.0
03:35 AM - 03:40 AM	60.1	59.7	-	52.5	58.5	-6.0
03:40 AM - 03:45 AM	62.0	60.4	-	59.9	58.5	1.4

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Kanokkorn Aniek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114636
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report Number : 3551102-1

Sample No. 25114636-28
Parameter เสียงรบกวน
Location ริมรั้วด้านหน้าโรงงาน (ระยะดำเนินการ) (GPS 47P 0726015, 1617961)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572457

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	60.5	62.2	-	n/a	58.5	-
03:50 AM - 03:55 AM	59.1	59.7	-	n/a	58.6	-
03:55 AM - 04:00 AM	59.9	59.6	-	51.1	57.8	-6.7
04:00 AM - 04:05 AM	58.9	59.3	-	n/a	57.8	-
04:05 AM - 04:10 AM	58.6	58.9	-	n/a	58.4	-
04:10 AM - 04:15 AM	59.2	58.9	-	50.4	58.6	-8.2
04:15 AM - 04:20 AM	59.6	59.4	-	49.1	58.4	-9.3
04:20 AM - 04:25 AM	60.6	59.5	-	57.1	58.0	-0.9
04:25 AM - 04:30 AM	60.9	60.7	-	50.4	58.6	-8.2
04:30 AM - 04:35 AM	60.0	59.8	-	49.5	58.3	-8.8
04:35 AM - 04:40 AM	60.2	59.9	-	51.4	58.3	-6.9
04:40 AM - 04:45 AM	60.5	60.3	-	50.0	58.9	-8.9
04:45 AM - 04:50 AM	60.2	59.7	-	53.6	58.0	-4.4
04:50 AM - 04:55 AM	61.5	60.4	-	58.0	58.1	-0.1
04:55 AM - 05:00 AM	60.5	60.2	-	51.7	58.1	-6.4
05:00 AM - 05:05 AM	61.1	60.4	-	55.8	58.2	-2.4
05:05 AM - 05:10 AM	60.5	60.3	-	50.0	57.9	-7.9
05:10 AM - 05:15 AM	60.6	60.2	-	53.0	58.5	-5.5
05:15 AM - 05:20 AM	60.4	60.5	-	n/a	58.1	-
05:20 AM - 05:25 AM	60.4	60.4	-	n/a	58.2	-
05:25 AM - 05:30 AM	61.4	60.7	-	56.1	58.4	-2.3
05:30 AM - 05:35 AM	61.2	60.7	-	54.6	58.6	-4.0
05:35 AM - 05:40 AM	61.1	60.7	-	53.5	58.4	-4.9
05:40 AM - 05:45 AM	60.9	60.7	-	50.4	58.5	-8.1
05:45 AM - 05:50 AM	61.3	62.7	-	n/a	58.5	-
05:50 AM - 05:55 AM	61.9	70.1	-	n/a	60.8	-
05:55 AM - 06:00 AM	61.0	68.5	-	n/a	59.5	-
06:00 AM - 07:00 AM	61.8	61.5	50.0	-	59.4	-9.4
07:00 AM - 08:00 AM	61.4	60.5	54.1	-	58.1	-4.0
08:00 AM - 09:00 AM	61.7	60.7	54.8	-	58.0	-3.2
09:00 AM - 10:00 AM	63.8	63.3	54.2	-	59.5	-5.3
10:00 AM - 11:00 AM	62.5	63.8	n/a	-	59.0	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 08-09 เมษายน 2569
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.25114637-28 วันที่ตรวจวัด 08-09 เมษายน 2569)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

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Approved by
Kanokkorn Aniek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551104-1

Sample No. 25114637-1
Parameter Noise
Location บ้านซับบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	59.1	72.1	56.9
12:00 PM - 01:00 PM	59.4	75.8	57.1
01:00 PM - 02:00 PM	58.9	76.4	56.4
02:00 PM - 03:00 PM	64.1	85.4	58.4
03:00 PM - 04:00 PM	66.6	84.3	62.0
04:00 PM - 05:00 PM	65.2	82.9	61.2
05:00 PM - 06:00 PM	60.6	78.5	58.0
06:00 PM - 07:00 PM	59.9	80.6	57.2
07:00 PM - 08:00 PM	58.4	74.4	56.0
08:00 PM - 09:00 PM	60.2	86.4	56.3
09:00 PM - 10:00 PM	58.3	74.8	55.9
10:00 PM - 10:05 PM	58.1	63.7	56.7
10:05 PM - 10:10 PM	57.6	68.5	55.3
10:10 PM - 10:15 PM	57.6	62.8	55.5
10:15 PM - 10:20 PM	59.2	68.5	57.1
10:20 PM - 10:25 PM	58.8	65.0	56.9
10:25 PM - 10:30 PM	58.2	68.8	55.5
10:30 PM - 10:35 PM	60.2	72.9	56.7
10:35 PM - 10:40 PM	59.0	68.9	56.6
10:40 PM - 10:45 PM	58.4	64.7	56.0
10:45 PM - 10:50 PM	59.5	67.2	57.6
10:50 PM - 10:55 PM	59.4	66.4	57.1
10:55 PM - 11:00 PM	59.2	69.3	55.9
11:00 PM - 11:05 PM	59.9	65.6	57.0
11:05 PM - 11:10 PM	59.3	70.4	56.8
11:10 PM - 11:15 PM	58.7	67.3	56.3
11:15 PM - 11:20 PM	58.9	70.0	56.2
11:20 PM - 11:25 PM	57.6	63.8	55.2
11:25 PM - 11:30 PM	58.4	66.6	55.9
11:30 PM - 11:35 PM	58.5	70.3	56.3
11:35 PM - 11:40 PM	60.3	69.2	56.9
11:40 PM - 11:45 PM	58.3	67.3	56.0
11:45 PM - 11:50 PM	58.7	64.3	56.6
11:50 PM - 11:55 PM	58.9	69.4	57.1
11:55 PM - 12:00 AM	58.3	66.0	56.4
12:00 AM - 12:05 AM	59.5	68.9	56.7
12:05 AM - 12:10 AM	58.1	63.2	56.5
12:10 AM - 12:15 AM	58.9	69.6	56.4
12:15 AM - 12:20 AM	59.2	63.8	56.7
12:20 AM - 12:25 AM	59.4	73.3	54.9

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551104-1

Sample No. 25114637-1
Parameter Noise
Location บ้านซับบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	59.1	69.5	56.7
12:30 AM - 12:35 AM	58.7	65.2	56.5
12:35 AM - 12:40 AM	61.4	85.3	56.0
12:40 AM - 12:45 AM	57.7	69.2	55.1
12:45 AM - 12:50 AM	58.6	72.7	55.8
12:50 AM - 12:55 AM	58.1	67.3	55.7
12:55 AM - 01:00 AM	58.2	68.5	55.7
01:00 AM - 01:05 AM	57.6	64.0	55.3
01:05 AM - 01:10 AM	57.5	62.8	55.0
01:10 AM - 01:15 AM	57.4	64.6	54.3
01:15 AM - 01:20 AM	58.4	70.1	54.4
01:20 AM - 01:25 AM	56.6	60.9	53.9
01:25 AM - 01:30 AM	57.5	65.9	55.1
01:30 AM - 01:35 AM	58.0	64.5	55.0
01:35 AM - 01:40 AM	57.7	65.7	53.9
01:40 AM - 01:45 AM	58.5	68.0	55.6
01:45 AM - 01:50 AM	57.6	67.1	54.7
01:50 AM - 01:55 AM	57.3	70.7	54.5
01:55 AM - 02:00 AM	57.5	65.3	54.5
02:00 AM - 02:05 AM	57.8	72.1	55.1
02:05 AM - 02:10 AM	57.4	66.5	55.0
02:10 AM - 02:15 AM	56.3	62.7	53.6
02:15 AM - 02:20 AM	57.7	62.6	54.0
02:20 AM - 02:25 AM	58.5	70.2	53.8
02:25 AM - 02:30 AM	57.1	63.7	54.6
02:30 AM - 02:35 AM	57.5	69.7	55.3
02:35 AM - 02:40 AM	58.4	73.5	55.8
02:40 AM - 02:45 AM	56.4	63.7	54.3
02:45 AM - 02:50 AM	57.8	62.3	55.6
02:50 AM - 02:55 AM	57.5	70.2	55.2
02:55 AM - 03:00 AM	58.5	68.2	54.0
03:00 AM - 03:05 AM	58.3	68.4	55.0
03:05 AM - 03:10 AM	57.8	65.3	55.5
03:10 AM - 03:15 AM	57.1	63.4	54.8
03:15 AM - 03:20 AM	58.1	67.1	55.3
03:20 AM - 03:25 AM	58.6	68.0	54.5
03:25 AM - 03:30 AM	57.8	64.2	55.4
03:30 AM - 03:35 AM	58.0	64.7	55.5
03:35 AM - 03:40 AM	56.3	63.2	53.1
03:40 AM - 03:45 AM	55.6	59.8	53.8

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Approved by

Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551104-1

Sample No. 25114637-1
Parameter Noise
Location บ้านซับบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	57.1	69.6	53.0
03:50 AM - 03:55 AM	57.7	66.4	54.5
03:55 AM - 04:00 AM	59.3	75.1	54.9
04:00 AM - 04:05 AM	56.5	67.2	54.5
04:05 AM - 04:10 AM	56.6	69.7	53.9
04:10 AM - 04:15 AM	55.7	60.4	53.7
04:15 AM - 04:20 AM	56.3	63.6	53.6
04:20 AM - 04:25 AM	57.9	67.5	54.1
04:25 AM - 04:30 AM	55.6	62.1	53.4
04:30 AM - 04:35 AM	56.5	63.5	54.4
04:35 AM - 04:40 AM	56.1	67.4	54.1
04:40 AM - 04:45 AM	56.4	61.3	54.6
04:45 AM - 04:50 AM	56.7	62.6	54.5
04:50 AM - 04:55 AM	56.9	63.8	54.2
04:55 AM - 05:00 AM	57.4	66.3	54.4
05:00 AM - 05:05 AM	57.2	60.6	55.0
05:05 AM - 05:10 AM	57.0	63.1	54.8
05:10 AM - 05:15 AM	58.1	65.4	55.0
05:15 AM - 05:20 AM	58.4	71.1	55.7
05:20 AM - 05:25 AM	57.8	70.6	55.2
05:25 AM - 05:30 AM	57.5	65.5	54.7
05:30 AM - 05:35 AM	58.1	67.0	55.6
05:35 AM - 05:40 AM	56.4	73.5	53.3
05:40 AM - 05:45 AM	59.4	76.9	56.0
05:45 AM - 05:50 AM	58.8	73.6	55.0
05:50 AM - 05:55 AM	59.2	75.4	56.1
05:55 AM - 06:00 AM	58.7	68.8	56.4
06:00 AM - 07:00 AM	61.4	88.4	56.7
07:00 AM - 08:00 AM	60.5	77.1	57.9
08:00 AM - 09:00 AM	59.3	80.1	56.6
09:00 AM - 10:00 AM	58.9	75.4	56.2
10:00 AM - 11:00 AM	65.0	91.2	56.5

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551105-1

Sample No. 25114637-2
Parameter Noise
Location บ้านซับบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.7	78.3	55.8
12:00 PM - 01:00 PM	58.5	77.4	55.7
01:00 PM - 02:00 PM	60.4	87.9	56.6
02:00 PM - 03:00 PM	59.6	78.3	57.4
03:00 PM - 04:00 PM	60.5	75.2	58.4
04:00 PM - 05:00 PM	60.6	82.4	58.6
05:00 PM - 06:00 PM	60.8	76.0	58.9
06:00 PM - 07:00 PM	61.7	80.8	58.8
07:00 PM - 08:00 PM	60.7	86.9	57.7
08:00 PM - 09:00 PM	59.9	79.7	57.4
09:00 PM - 10:00 PM	60.4	79.3	58.2
10:00 PM - 10:05 PM	59.5	67.7	57.3
10:05 PM - 10:10 PM	60.2	79.6	57.4
10:10 PM - 10:15 PM	59.3	66.9	57.7
10:15 PM - 10:20 PM	60.3	77.4	58.2
10:20 PM - 10:25 PM	60.2	71.9	58.4
10:25 PM - 10:30 PM	65.1	85.7	57.8
10:30 PM - 10:35 PM	59.4	69.6	57.6
10:35 PM - 10:40 PM	60.4	78.5	57.9
10:40 PM - 10:45 PM	60.6	71.6	58.4
10:45 PM - 10:50 PM	60.4	69.9	57.8
10:50 PM - 10:55 PM	60.2	69.8	57.5
10:55 PM - 11:00 PM	60.0	74.5	58.1
11:00 PM - 11:05 PM	59.8	75.1	58.0
11:05 PM - 11:10 PM	59.4	64.9	57.6
11:10 PM - 11:15 PM	61.0	71.4	58.1
11:15 PM - 11:20 PM	59.7	67.5	57.4
11:20 PM - 11:25 PM	59.5	66.7	57.8
11:25 PM - 11:30 PM	60.2	74.9	57.2
11:30 PM - 11:35 PM	60.0	75.9	57.4
11:35 PM - 11:40 PM	65.1	89.6	57.5
11:40 PM - 11:45 PM	60.1	78.0	56.9
11:45 PM - 11:50 PM	59.0	68.0	57.0
11:50 PM - 11:55 PM	60.0	71.5	57.9
11:55 PM - 12:00 AM	59.2	81.4	57.0
12:00 AM - 12:05 AM	59.9	72.4	57.5
12:05 AM - 12:10 AM	60.5	74.9	57.9
12:10 AM - 12:15 AM	59.8	72.4	57.3
12:15 AM - 12:20 AM	59.6	67.1	57.5
12:20 AM - 12:25 AM	58.8	70.3	57.1

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551105-1

Sample No. 25114637-2
Parameter Noise
Location บ้านชั้นบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	65.2	83.5	56.8
12:30 AM - 12:35 AM	59.6	66.9	58.2
12:35 AM - 12:40 AM	58.7	67.2	56.1
12:40 AM - 12:45 AM	65.3	81.3	57.6
12:45 AM - 12:50 AM	62.3	87.6	56.8
12:50 AM - 12:55 AM	59.0	71.8	57.2
12:55 AM - 01:00 AM	63.1	82.7	57.2
01:00 AM - 01:05 AM	60.3	76.7	57.5
01:05 AM - 01:10 AM	58.9	68.2	56.0
01:10 AM - 01:15 AM	59.6	72.1	56.7
01:15 AM - 01:20 AM	59.2	70.3	56.7
01:20 AM - 01:25 AM	59.1	70.4	57.2
01:25 AM - 01:30 AM	59.1	78.2	56.0
01:30 AM - 01:35 AM	57.3	63.0	55.6
01:35 AM - 01:40 AM	58.4	72.5	55.8
01:40 AM - 01:45 AM	58.5	73.1	56.1
01:45 AM - 01:50 AM	58.9	68.3	56.4
01:50 AM - 01:55 AM	63.2	79.7	56.1
01:55 AM - 02:00 AM	58.0	64.0	56.0
02:00 AM - 02:05 AM	59.1	67.1	56.2
02:05 AM - 02:10 AM	58.8	67.6	56.5
02:10 AM - 02:15 AM	58.1	67.8	56.3
02:15 AM - 02:20 AM	58.1	66.6	56.4
02:20 AM - 02:25 AM	60.7	73.4	57.5
02:25 AM - 02:30 AM	58.5	66.2	56.0
02:30 AM - 02:35 AM	59.1	65.1	56.8
02:35 AM - 02:40 AM	57.7	66.1	55.4
02:40 AM - 02:45 AM	58.7	66.7	56.8
02:45 AM - 02:50 AM	58.7	68.0	55.8
02:50 AM - 02:55 AM	60.5	77.9	56.0
02:55 AM - 03:00 AM	65.5	79.3	56.0
03:00 AM - 03:05 AM	58.8	64.8	56.8
03:05 AM - 03:10 AM	60.0	84.2	56.3
03:10 AM - 03:15 AM	59.7	72.7	57.5
03:15 AM - 03:20 AM	59.1	71.6	56.5
03:20 AM - 03:25 AM	58.9	80.8	56.5
03:25 AM - 03:30 AM	58.0	66.2	55.7
03:30 AM - 03:35 AM	58.7	71.0	55.8
03:35 AM - 03:40 AM	58.2	66.0	55.8
03:40 AM - 03:45 AM	58.4	66.8	55.5

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551105-1

Sample No. 25114637-2
Parameter Noise
Location บ้านชั้นบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	59.2	72.1	55.9
03:50 AM - 03:55 AM	58.9	75.3	54.8
03:55 AM - 04:00 AM	57.9	64.3	55.5
04:00 AM - 04:05 AM	58.6	67.4	56.1
04:05 AM - 04:10 AM	58.2	68.1	56.2
04:10 AM - 04:15 AM	58.5	65.1	56.3
04:15 AM - 04:20 AM	58.6	74.0	55.7
04:20 AM - 04:25 AM	58.5	65.8	56.3
04:25 AM - 04:30 AM	58.6	65.1	55.5
04:30 AM - 04:35 AM	58.9	65.3	57.0
04:35 AM - 04:40 AM	59.6	74.3	56.4
04:40 AM - 04:45 AM	58.4	71.2	55.8
04:45 AM - 04:50 AM	58.5	76.2	56.3
04:50 AM - 04:55 AM	59.0	76.6	55.9
04:55 AM - 05:00 AM	58.2	69.9	55.7
05:00 AM - 05:05 AM	60.8	80.3	56.5
05:05 AM - 05:10 AM	59.9	79.8	56.2
05:10 AM - 05:15 AM	59.1	65.7	56.9
05:15 AM - 05:20 AM	59.2	66.5	57.5
05:20 AM - 05:25 AM	59.0	66.0	57.0
05:25 AM - 05:30 AM	59.1	66.1	56.8
05:30 AM - 05:35 AM	59.6	69.0	57.4
05:35 AM - 05:40 AM	59.9	66.2	57.1
05:40 AM - 05:45 AM	61.5	80.4	56.6
05:45 AM - 05:50 AM	60.1	70.2	57.4
05:50 AM - 05:55 AM	60.0	68.6	57.9
05:55 AM - 06:00 AM	62.3	76.5	58.7
06:00 AM - 07:00 AM	60.9	86.8	58.6
07:00 AM - 08:00 AM	61.9	86.0	58.8
08:00 AM - 09:00 AM	60.4	84.7	58.0
09:00 AM - 10:00 AM	59.8	77.6	57.6
10:00 AM - 11:00 AM	65.1	97.7	58.1

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551106-1

Sample No. 25114637-3
Parameter Noise
Location บ้านชินบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	59.3	79.9	57.4
12:00 PM - 01:00 PM	59.8	76.8	57.5
01:00 PM - 02:00 PM	59.4	72.1	57.5
02:00 PM - 03:00 PM	60.1	76.2	57.9
03:00 PM - 04:00 PM	60.3	79.9	58.0
04:00 PM - 05:00 PM	60.9	78.0	58.2
05:00 PM - 06:00 PM	61.1	93.6	58.2
06:00 PM - 07:00 PM	61.1	81.0	58.4
07:00 PM - 08:00 PM	60.4	86.2	57.6
08:00 PM - 09:00 PM	60.0	77.3	57.5
09:00 PM - 10:00 PM	60.4	76.1	58.1
10:00 PM - 10:05 PM	61.5	78.0	58.8
10:05 PM - 10:10 PM	60.0	70.9	57.2
10:10 PM - 10:15 PM	60.8	81.2	57.1
10:15 PM - 10:20 PM	61.4	81.3	58.3
10:20 PM - 10:25 PM	59.4	65.9	57.9
10:25 PM - 10:30 PM	60.0	69.6	58.4
10:30 PM - 10:35 PM	59.6	65.0	57.4
10:35 PM - 10:40 PM	60.1	70.0	58.1
10:40 PM - 10:45 PM	59.8	72.4	57.9
10:45 PM - 10:50 PM	60.6	74.2	58.4
10:50 PM - 10:55 PM	59.5	74.3	57.7
10:55 PM - 11:00 PM	59.6	68.5	57.6
11:00 PM - 11:05 PM	58.8	66.8	56.8
11:05 PM - 11:10 PM	58.8	64.1	57.2
11:10 PM - 11:15 PM	59.0	63.1	57.6
11:15 PM - 11:20 PM	59.3	71.1	57.1
11:20 PM - 11:25 PM	58.3	64.4	56.8
11:25 PM - 11:30 PM	59.8	64.3	57.8
11:30 PM - 11:35 PM	59.6	64.9	57.7
11:35 PM - 11:40 PM	60.3	72.3	57.0
11:40 PM - 11:45 PM	59.4	68.7	56.1
11:45 PM - 11:50 PM	58.8	65.8	57.0
11:50 PM - 11:55 PM	58.4	72.4	56.5
11:55 PM - 12:00 AM	57.8	71.3	55.9
12:00 AM - 12:05 AM	58.0	66.5	56.1
12:05 AM - 12:10 AM	59.0	70.7	56.9
12:10 AM - 12:15 AM	58.5	67.7	56.3
12:15 AM - 12:20 AM	58.3	66.9	56.6
12:20 AM - 12:25 AM	58.4	66.2	56.9

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551106-1

Sample No. 25114637-3
Parameter Noise
Location บ้านชินบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	59.1	64.8	56.8
12:30 AM - 12:35 AM	58.6	67.2	56.3
12:35 AM - 12:40 AM	59.2	75.9	56.0
12:40 AM - 12:45 AM	58.0	65.3	56.3
12:45 AM - 12:50 AM	58.4	66.3	56.2
12:50 AM - 12:55 AM	58.2	68.1	56.0
12:55 AM - 01:00 AM	57.7	64.1	55.6
01:00 AM - 01:05 AM	58.1	67.2	55.9
01:05 AM - 01:10 AM	57.8	64.9	55.9
01:10 AM - 01:15 AM	58.8	64.6	56.5
01:15 AM - 01:20 AM	64.2	78.2	56.3
01:20 AM - 01:25 AM	58.7	68.0	55.8
01:25 AM - 01:30 AM	59.3	68.2	57.1
01:30 AM - 01:35 AM	58.5	65.1	56.9
01:35 AM - 01:40 AM	59.7	75.0	56.3
01:40 AM - 01:45 AM	57.5	68.1	55.5
01:45 AM - 01:50 AM	58.0	65.2	56.2
01:50 AM - 01:55 AM	59.4	71.0	56.6
01:55 AM - 02:00 AM	57.5	66.3	55.5
02:00 AM - 02:05 AM	64.3	82.8	56.3
02:05 AM - 02:10 AM	57.9	67.0	55.4
02:10 AM - 02:15 AM	57.9	65.6	56.0
02:15 AM - 02:20 AM	58.2	68.0	56.1
02:20 AM - 02:25 AM	57.8	68.4	54.6
02:25 AM - 02:30 AM	58.7	66.4	55.8
02:30 AM - 02:35 AM	58.0	66.1	56.0
02:35 AM - 02:40 AM	58.3	72.3	55.7
02:40 AM - 02:45 AM	61.8	78.3	56.2
02:45 AM - 02:50 AM	59.1	69.6	56.3
02:50 AM - 02:55 AM	57.5	66.1	55.6
02:55 AM - 03:00 AM	58.5	65.6	56.5
03:00 AM - 03:05 AM	59.7	75.6	56.6
03:05 AM - 03:10 AM	58.2	64.6	56.3
03:10 AM - 03:15 AM	58.5	64.9	56.4
03:15 AM - 03:20 AM	59.6	75.0	55.8
03:20 AM - 03:25 AM	58.0	66.5	55.6
03:25 AM - 03:30 AM	58.3	63.1	56.2
03:30 AM - 03:35 AM	58.3	67.6	55.9
03:35 AM - 03:40 AM	59.0	70.2	56.6
03:40 AM - 03:45 AM	57.3	62.3	55.6

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Kanokkorn Anek
Assistant General Manager

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551106-1

Sample No. 25114637-3
Parameter Noise
Location บ้านชั่วนอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	58.0	68.9	56.0
03:50 AM - 03:55 AM	58.7	74.7	55.8
03:55 AM - 04:00 AM	57.7	65.2	55.3
04:00 AM - 04:05 AM	57.4	63.4	55.5
04:05 AM - 04:10 AM	58.8	69.9	56.4
04:10 AM - 04:15 AM	57.4	65.6	55.1
04:15 AM - 04:20 AM	58.2	68.1	55.8
04:20 AM - 04:25 AM	58.3	72.5	55.5
04:25 AM - 04:30 AM	57.8	70.0	55.3
04:30 AM - 04:35 AM	60.2	71.6	57.1
04:35 AM - 04:40 AM	58.5	65.7	56.7
04:40 AM - 04:45 AM	59.8	71.9	56.0
04:45 AM - 04:50 AM	58.5	70.0	56.5
04:50 AM - 04:55 AM	58.0	64.6	56.0
04:55 AM - 05:00 AM	59.1	77.6	56.6
05:00 AM - 05:05 AM	58.2	66.1	55.9
05:05 AM - 05:10 AM	58.8	69.3	55.9
05:10 AM - 05:15 AM	58.6	67.9	56.1
05:15 AM - 05:20 AM	58.6	70.2	56.8
05:20 AM - 05:25 AM	58.6	65.6	57.1
05:25 AM - 05:30 AM	58.7	64.9	56.7
05:30 AM - 05:35 AM	58.8	66.0	57.3
05:35 AM - 05:40 AM	59.0	67.3	57.6
05:40 AM - 05:45 AM	59.2	64.1	57.4
05:45 AM - 05:50 AM	59.6	68.2	57.6
05:50 AM - 05:55 AM	60.1	69.3	58.3
05:55 AM - 06:00 AM	61.1	70.6	59.5
06:00 AM - 07:00 AM	61.3	76.7	59.4
07:00 AM - 08:00 AM	61.7	78.4	59.7
08:00 AM - 09:00 AM	61.0	79.4	59.1
09:00 AM - 10:00 AM	61.0	76.9	58.5
10:00 AM - 11:00 AM	60.9	74.5	59.0

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551107-1

Sample No. 25114637-4
Parameter Noise
Location บ้านชั่วนอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	60.9	76.5	59.1
12:00 PM - 01:00 PM	61.0	73.7	59.0
01:00 PM - 02:00 PM	60.8	82.5	58.9
02:00 PM - 03:00 PM	60.9	77.2	59.1
03:00 PM - 04:00 PM	61.6	79.1	59.6
04:00 PM - 05:00 PM	61.3	77.5	59.7
05:00 PM - 06:00 PM	62.4	73.8	59.9
06:00 PM - 07:00 PM	62.1	79.3	59.7
07:00 PM - 08:00 PM	61.8	80.4	60.2
08:00 PM - 09:00 PM	61.5	77.2	59.7
09:00 PM - 10:00 PM	61.8	73.0	60.5
10:00 PM - 10:05 PM	63.6	78.6	60.7
10:05 PM - 10:10 PM	61.5	72.0	60.2
10:10 PM - 10:15 PM	61.6	72.1	60.3
10:15 PM - 10:20 PM	61.6	67.3	60.1
10:20 PM - 10:25 PM	61.8	76.3	59.7
10:25 PM - 10:30 PM	61.4	67.5	59.9
10:30 PM - 10:35 PM	60.3	67.8	58.5
10:35 PM - 10:40 PM	61.5	73.7	58.7
10:40 PM - 10:45 PM	60.8	68.1	59.6
10:45 PM - 10:50 PM	61.8	69.3	60.2
10:50 PM - 10:55 PM	62.1	76.2	60.2
10:55 PM - 11:00 PM	61.4	71.7	59.4
11:00 PM - 11:05 PM	61.7	71.5	60.2
11:05 PM - 11:10 PM	62.3	70.8	60.7
11:10 PM - 11:15 PM	62.0	69.9	60.7
11:15 PM - 11:20 PM	60.6	69.4	59.3
11:20 PM - 11:25 PM	61.3	67.7	59.6
11:25 PM - 11:30 PM	62.3	77.1	60.0
11:30 PM - 11:35 PM	61.5	65.9	60.2
11:35 PM - 11:40 PM	61.4	71.2	60.0
11:40 PM - 11:45 PM	61.4	68.8	60.0
11:45 PM - 11:50 PM	61.2	66.5	59.7
11:50 PM - 11:55 PM	61.7	73.5	59.1
11:55 PM - 12:00 AM	61.3	72.8	59.9
12:00 AM - 12:05 AM	61.7	74.5	59.5
12:05 AM - 12:10 AM	61.0	67.5	59.4
12:10 AM - 12:15 AM	61.2	69.8	59.6
12:15 AM - 12:20 AM	61.3	69.1	60.0
12:20 AM - 12:25 AM	61.1	68.1	59.6

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551107-1

Sample No. 25114637-4
Parameter Noise
Location บ้านชั้นบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	61.3	73.9	59.5
12:30 AM - 12:35 AM	60.6	65.3	59.1
12:35 AM - 12:40 AM	60.5	68.4	59.2
12:40 AM - 12:45 AM	61.3	81.9	59.4
12:45 AM - 12:50 AM	60.1	65.0	58.9
12:50 AM - 12:55 AM	60.7	73.3	58.8
12:55 AM - 01:00 AM	60.2	65.9	58.3
01:00 AM - 01:05 AM	60.6	70.0	58.5
01:05 AM - 01:10 AM	61.1	71.9	58.9
01:10 AM - 01:15 AM	61.1	76.0	59.3
01:15 AM - 01:20 AM	60.3	68.1	59.0
01:20 AM - 01:25 AM	60.2	65.8	58.8
01:25 AM - 01:30 AM	60.6	65.9	58.8
01:30 AM - 01:35 AM	59.9	67.9	58.5
01:35 AM - 01:40 AM	60.1	67.3	59.0
01:40 AM - 01:45 AM	60.0	66.1	58.7
01:45 AM - 01:50 AM	60.6	69.7	59.0
01:50 AM - 01:55 AM	60.5	69.7	58.9
01:55 AM - 02:00 AM	60.8	67.9	59.2
02:00 AM - 02:05 AM	60.3	70.0	58.8
02:05 AM - 02:10 AM	60.4	65.9	58.8
02:10 AM - 02:15 AM	61.6	74.7	59.1
02:15 AM - 02:20 AM	60.7	69.0	59.1
02:20 AM - 02:25 AM	60.1	66.9	58.5
02:25 AM - 02:30 AM	59.8	64.5	58.3
02:30 AM - 02:35 AM	60.6	67.8	59.5
02:35 AM - 02:40 AM	60.0	66.1	58.3
02:40 AM - 02:45 AM	60.8	74.6	58.8
02:45 AM - 02:50 AM	61.2	75.6	59.1
02:50 AM - 02:55 AM	60.7	69.0	59.1
02:55 AM - 03:00 AM	60.3	65.6	59.0
03:00 AM - 03:05 AM	60.8	68.6	58.8
03:05 AM - 03:10 AM	60.5	73.0	58.7
03:10 AM - 03:15 AM	60.6	69.5	59.0
03:15 AM - 03:20 AM	59.9	70.5	58.0
03:20 AM - 03:25 AM	60.2	66.6	58.2
03:25 AM - 03:30 AM	59.9	66.7	57.9
03:30 AM - 03:35 AM	60.1	68.1	58.3
03:35 AM - 03:40 AM	60.0	70.0	58.3
03:40 AM - 03:45 AM	60.4	69.4	58.3

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551107-1

Sample No. 25114637-4
Parameter Noise
Location บ้านชั้นบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	61.7	73.6	57.9
03:50 AM - 03:55 AM	59.9	68.6	58.2
03:55 AM - 04:00 AM	59.9	67.3	57.9
04:00 AM - 04:05 AM	60.1	66.2	58.1
04:05 AM - 04:10 AM	59.4	65.1	57.5
04:10 AM - 04:15 AM	59.0	64.2	57.6
04:15 AM - 04:20 AM	59.4	64.2	58.0
04:20 AM - 04:25 AM	59.6	64.5	57.2
04:25 AM - 04:30 AM	59.7	66.2	58.0
04:30 AM - 04:35 AM	59.4	65.6	57.4
04:35 AM - 04:40 AM	59.8	72.2	57.9
04:40 AM - 04:45 AM	59.9	66.3	57.9
04:45 AM - 04:50 AM	59.7	66.7	58.2
04:50 AM - 04:55 AM	58.9	68.1	57.2
04:55 AM - 05:00 AM	59.5	65.5	57.9
05:00 AM - 05:05 AM	59.3	66.1	57.7
05:05 AM - 05:10 AM	59.6	65.3	58.1
05:10 AM - 05:15 AM	60.1	69.7	58.6
05:15 AM - 05:20 AM	60.5	73.3	58.6
05:20 AM - 05:25 AM	60.0	65.1	58.4
05:25 AM - 05:30 AM	60.4	68.9	58.5
05:30 AM - 05:35 AM	60.8	70.5	58.8
05:35 AM - 05:40 AM	59.9	69.5	58.2
05:40 AM - 05:45 AM	62.1	77.4	58.0
05:45 AM - 05:50 AM	60.6	66.1	58.8
05:50 AM - 05:55 AM	61.0	66.0	59.6
05:55 AM - 06:00 AM	60.8	66.2	58.6
06:00 AM - 07:00 AM	62.1	83.9	59.4
07:00 AM - 08:00 AM	61.2	79.0	59.3
08:00 AM - 09:00 AM	60.8	79.1	59.1
09:00 AM - 10:00 AM	60.7	78.5	58.7
10:00 AM - 11:00 AM	60.4	74.6	58.5

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551108-1

Sample No. 25114637-5
Parameter Noise
Location บ้านชินบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	65.1	98.9	58.5
12:00 PM - 01:00 PM	61.0	77.4	59.1
01:00 PM - 02:00 PM	61.2	77.3	59.4
02:00 PM - 03:00 PM	61.1	86.2	59.1
03:00 PM - 04:00 PM	61.1	78.6	59.3
04:00 PM - 05:00 PM	61.1	79.1	59.2
05:00 PM - 06:00 PM	61.2	77.9	59.4
06:00 PM - 07:00 PM	61.4	79.5	59.4
07:00 PM - 08:00 PM	61.9	80.3	60.0
08:00 PM - 09:00 PM	61.5	82.5	59.6
09:00 PM - 10:00 PM	61.6	83.7	59.5
10:00 PM - 10:05 PM	61.3	70.7	59.4
10:05 PM - 10:10 PM	61.2	67.6	59.5
10:10 PM - 10:15 PM	63.1	76.6	59.3
10:15 PM - 10:20 PM	60.6	64.8	59.1
10:20 PM - 10:25 PM	60.5	74.1	58.2
10:25 PM - 10:30 PM	60.9	67.9	59.2
10:30 PM - 10:35 PM	60.2	65.8	58.7
10:35 PM - 10:40 PM	60.0	63.4	58.8
10:40 PM - 10:45 PM	61.1	72.5	59.4
10:45 PM - 10:50 PM	60.7	68.8	59.2
10:50 PM - 10:55 PM	60.6	64.3	59.2
10:55 PM - 11:00 PM	61.0	76.3	59.4
11:00 PM - 11:05 PM	60.6	69.4	58.6
11:05 PM - 11:10 PM	61.0	66.9	59.2
11:10 PM - 11:15 PM	60.4	72.4	58.9
11:15 PM - 11:20 PM	60.4	71.7	58.6
11:20 PM - 11:25 PM	60.6	74.8	58.3
11:25 PM - 11:30 PM	64.6	84.7	58.9
11:30 PM - 11:35 PM	60.7	65.3	59.3
11:35 PM - 11:40 PM	60.4	67.4	59.0
11:40 PM - 11:45 PM	60.4	64.7	59.3
11:45 PM - 11:50 PM	60.8	70.8	58.8
11:50 PM - 11:55 PM	60.3	68.9	58.4
11:55 PM - 12:00 AM	60.1	72.7	58.3
12:00 AM - 12:05 AM	59.2	64.8	56.6
12:05 AM - 12:10 AM	59.3	64.0	57.7
12:10 AM - 12:15 AM	59.8	65.6	58.0
12:15 AM - 12:20 AM	60.3	68.6	58.2
12:20 AM - 12:25 AM	61.7	75.5	58.6

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551108-1

Sample No. 25114637-5
Parameter Noise
Location บ้านชินบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	60.3	65.6	58.5
12:30 AM - 12:35 AM	61.2	83.4	58.9
12:35 AM - 12:40 AM	61.1	74.8	57.9
12:40 AM - 12:45 AM	60.0	75.8	58.2
12:45 AM - 12:50 AM	60.0	67.5	58.4
12:50 AM - 12:55 AM	60.0	66.4	58.2
12:55 AM - 01:00 AM	60.2	74.0	58.2
01:00 AM - 01:05 AM	59.7	68.9	58.0
01:05 AM - 01:10 AM	60.3	65.9	58.8
01:10 AM - 01:15 AM	59.6	69.3	57.9
01:15 AM - 01:20 AM	60.3	66.0	57.9
01:20 AM - 01:25 AM	59.3	64.6	57.8
01:25 AM - 01:30 AM	60.0	64.9	58.4
01:30 AM - 01:35 AM	60.3	68.6	58.7
01:35 AM - 01:40 AM	59.8	65.4	57.9
01:40 AM - 01:45 AM	59.6	67.1	57.8
01:45 AM - 01:50 AM	59.7	66.5	57.6
01:50 AM - 01:55 AM	60.0	67.4	57.4
01:55 AM - 02:00 AM	59.9	72.3	57.5
02:00 AM - 02:05 AM	59.9	73.2	57.8
02:05 AM - 02:10 AM	59.8	70.1	57.0
02:10 AM - 02:15 AM	60.4	69.5	58.8
02:15 AM - 02:20 AM	59.9	69.0	58.5
02:20 AM - 02:25 AM	59.4	64.7	57.6
02:25 AM - 02:30 AM	59.7	64.1	58.1
02:30 AM - 02:35 AM	59.9	72.0	58.2
02:35 AM - 02:40 AM	60.0	73.2	57.9
02:40 AM - 02:45 AM	59.8	67.9	58.4
02:45 AM - 02:50 AM	59.7	70.3	57.6
02:50 AM - 02:55 AM	59.5	65.5	58.1
02:55 AM - 03:00 AM	60.3	75.0	58.3
03:00 AM - 03:05 AM	59.5	72.9	57.7
03:05 AM - 03:10 AM	61.3	78.2	57.6
03:10 AM - 03:15 AM	60.2	68.3	57.9
03:15 AM - 03:20 AM	59.3	65.9	57.9
03:20 AM - 03:25 AM	60.2	72.4	58.1
03:25 AM - 03:30 AM	59.9	72.2	57.4
03:30 AM - 03:35 AM	60.8	74.6	58.4
03:35 AM - 03:40 AM	59.9	67.5	58.1
03:40 AM - 03:45 AM	59.5	69.4	57.4

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551108-1

Sample No. 25114637-5
Parameter Noise
Location บ้านซับมอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	59.4	65.4	57.6
03:50 AM - 03:55 AM	59.8	68.0	58.2
03:55 AM - 04:00 AM	60.3	68.9	58.6
04:00 AM - 04:05 AM	63.8	79.6	58.6
04:05 AM - 04:10 AM	59.2	68.5	57.5
04:10 AM - 04:15 AM	59.8	67.5	58.1
04:15 AM - 04:20 AM	60.0	69.3	58.3
04:20 AM - 04:25 AM	60.4	66.0	58.7
04:25 AM - 04:30 AM	61.3	79.9	58.8
04:30 AM - 04:35 AM	59.9	72.2	57.9
04:35 AM - 04:40 AM	60.3	69.3	58.3
04:40 AM - 04:45 AM	61.3	68.5	59.9
04:45 AM - 04:50 AM	60.8	70.0	59.0
04:50 AM - 04:55 AM	60.2	67.8	58.9
04:55 AM - 05:00 AM	60.6	65.5	59.1
05:00 AM - 05:05 AM	60.3	65.7	59.0
05:05 AM - 05:10 AM	60.5	68.2	59.1
05:10 AM - 05:15 AM	60.8	66.5	59.5
05:15 AM - 05:20 AM	60.5	70.3	58.7
05:20 AM - 05:25 AM	66.2	82.5	58.9
05:25 AM - 05:30 AM	65.6	82.6	59.5
05:30 AM - 05:35 AM	60.5	72.8	59.0
05:35 AM - 05:40 AM	61.1	71.5	59.3
05:40 AM - 05:45 AM	60.7	65.2	58.9
05:45 AM - 05:50 AM	62.2	77.6	58.9
05:50 AM - 05:55 AM	62.5	72.3	60.7
05:55 AM - 06:00 AM	61.4	66.7	59.6
06:00 AM - 07:00 AM	61.8	83.1	60.0
07:00 AM - 08:00 AM	62.0	84.8	59.8
08:00 AM - 09:00 AM	61.0	79.4	58.7
09:00 AM - 10:00 AM	66.2	101.8	57.5
10:00 AM - 11:00 AM	65.2	95.5	57.4

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551109-1

Sample No. 25114637-6
Parameter Noise
Location บ้านซับมอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	60.0	83.7	57.6
12:00 PM - 01:00 PM	60.1	76.2	57.9
01:00 PM - 02:00 PM	58.9	72.2	56.8
02:00 PM - 03:00 PM	60.2	90.3	57.2
03:00 PM - 04:00 PM	60.4	73.4	58.4
04:00 PM - 05:00 PM	60.5	77.9	58.4
05:00 PM - 06:00 PM	60.8	79.3	58.6
06:00 PM - 07:00 PM	61.2	83.5	58.5
07:00 PM - 08:00 PM	62.1	87.3	58.5
08:00 PM - 09:00 PM	61.9	81.5	58.3
09:00 PM - 10:00 PM	62.1	90.4	58.8
10:00 PM - 10:05 PM	60.1	73.6	58.3
10:05 PM - 10:10 PM	61.9	75.9	58.7
10:10 PM - 10:15 PM	60.6	70.7	59.0
10:15 PM - 10:20 PM	61.1	69.0	58.9
10:20 PM - 10:25 PM	60.3	69.5	58.8
10:25 PM - 10:30 PM	60.6	72.5	58.3
10:30 PM - 10:35 PM	60.5	66.2	58.3
10:35 PM - 10:40 PM	61.3	75.8	58.1
10:40 PM - 10:45 PM	60.1	81.4	57.4
10:45 PM - 10:50 PM	60.4	64.9	58.6
10:50 PM - 10:55 PM	60.9	76.6	57.9
10:55 PM - 11:00 PM	60.1	68.4	58.5
11:00 PM - 11:05 PM	60.7	69.1	59.0
11:05 PM - 11:10 PM	59.5	65.4	57.8
11:10 PM - 11:15 PM	60.8	72.3	57.9
11:15 PM - 11:20 PM	60.0	71.8	57.8
11:20 PM - 11:25 PM	59.5	64.0	57.9
11:25 PM - 11:30 PM	60.6	76.1	58.3
11:30 PM - 11:35 PM	60.3	77.5	58.1
11:35 PM - 11:40 PM	60.1	74.5	58.3
11:40 PM - 11:45 PM	61.0	70.7	58.9
11:45 PM - 11:50 PM	60.2	68.0	58.6
11:50 PM - 11:55 PM	60.5	73.2	58.2
11:55 PM - 12:00 AM	60.3	67.5	58.8
12:00 AM - 12:05 AM	61.4	71.9	59.4
12:05 AM - 12:10 AM	61.5	68.6	59.1
12:10 AM - 12:15 AM	61.7	73.9	59.3
12:15 AM - 12:20 AM	61.9	68.0	59.4
12:20 AM - 12:25 AM	59.9	67.0	58.3

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551109-1

Sample No. 25114637-6
Parameter Noise
Location บ้านชั้นบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	60.2	67.6	58.7
12:30 AM - 12:35 AM	59.1	69.1	57.4
12:35 AM - 12:40 AM	59.2	66.5	56.8
12:40 AM - 12:45 AM	58.9	68.5	57.0
12:45 AM - 12:50 AM	58.8	68.1	57.1
12:50 AM - 12:55 AM	59.7	70.2	57.7
12:55 AM - 01:00 AM	59.1	72.3	56.9
01:00 AM - 01:05 AM	62.0	80.0	57.3
01:05 AM - 01:10 AM	60.8	75.2	57.6
01:10 AM - 01:15 AM	60.6	77.5	57.5
01:15 AM - 01:20 AM	59.0	67.7	56.6
01:20 AM - 01:25 AM	59.2	68.0	57.2
01:25 AM - 01:30 AM	62.1	79.3	56.1
01:30 AM - 01:35 AM	61.1	80.8	57.2
01:35 AM - 01:40 AM	58.4	65.3	56.2
01:40 AM - 01:45 AM	58.8	65.1	56.6
01:45 AM - 01:50 AM	58.6	65.9	56.4
01:50 AM - 01:55 AM	59.4	72.1	56.6
01:55 AM - 02:00 AM	60.3	69.4	57.7
02:00 AM - 02:05 AM	58.7	70.9	56.5
02:05 AM - 02:10 AM	62.7	80.6	56.6
02:10 AM - 02:15 AM	59.7	68.7	56.7
02:15 AM - 02:20 AM	58.6	71.3	55.7
02:20 AM - 02:25 AM	59.1	69.9	56.6
02:25 AM - 02:30 AM	60.0	69.1	57.5
02:30 AM - 02:35 AM	58.9	73.9	56.4
02:35 AM - 02:40 AM	59.1	65.2	56.4
02:40 AM - 02:45 AM	59.7	75.0	57.1
02:45 AM - 02:50 AM	59.2	68.5	56.5
02:50 AM - 02:55 AM	59.1	68.0	56.5
02:55 AM - 03:00 AM	59.2	71.3	57.4
03:00 AM - 03:05 AM	58.5	69.1	56.1
03:05 AM - 03:10 AM	59.5	69.4	57.5
03:10 AM - 03:15 AM	60.0	84.4	57.2
03:15 AM - 03:20 AM	58.4	64.8	56.6
03:20 AM - 03:25 AM	59.1	65.5	57.2
03:25 AM - 03:30 AM	58.8	64.9	56.9
03:30 AM - 03:35 AM	58.3	64.4	56.5
03:35 AM - 03:40 AM	59.3	65.4	56.9
03:40 AM - 03:45 AM	58.8	66.7	56.4

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551109-1

Sample No. 25114637-6
Parameter Noise
Location บ้านชั้นบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	59.3	66.8	57.1
03:50 AM - 03:55 AM	60.2	74.7	57.0
03:55 AM - 04:00 AM	58.5	65.6	56.1
04:00 AM - 04:05 AM	60.5	68.0	57.5
04:05 AM - 04:10 AM	58.4	69.1	56.4
04:10 AM - 04:15 AM	59.2	68.7	57.2
04:15 AM - 04:20 AM	59.0	70.6	56.3
04:20 AM - 04:25 AM	58.1	65.7	56.2
04:25 AM - 04:30 AM	58.6	65.6	56.3
04:30 AM - 04:35 AM	59.2	65.1	57.3
04:35 AM - 04:40 AM	58.6	65.1	56.7
04:40 AM - 04:45 AM	59.1	68.1	57.1
04:45 AM - 04:50 AM	60.2	68.4	58.0
04:50 AM - 04:55 AM	58.1	65.5	55.9
04:55 AM - 05:00 AM	59.5	65.8	57.0
05:00 AM - 05:05 AM	59.3	65.1	57.7
05:05 AM - 05:10 AM	60.1	73.1	57.7
05:10 AM - 05:15 AM	59.9	68.5	56.8
05:15 AM - 05:20 AM	66.6	83.0	57.5
05:20 AM - 05:25 AM	60.6	76.8	57.2
05:25 AM - 05:30 AM	59.9	69.8	57.9
05:30 AM - 05:35 AM	59.9	70.1	57.4
05:35 AM - 05:40 AM	59.6	65.7	57.4
05:40 AM - 05:45 AM	59.8	66.4	57.8
05:45 AM - 05:50 AM	61.8	78.7	58.0
05:50 AM - 05:55 AM	60.5	67.4	58.8
05:55 AM - 06:00 AM	60.3	70.4	58.5
06:00 AM - 07:00 AM	62.3	87.1	59.4
07:00 AM - 08:00 AM	61.4	81.0	59.1
08:00 AM - 09:00 AM	60.3	81.6	57.6
09:00 AM - 10:00 AM	60.2	76.9	57.5
10:00 AM - 11:00 AM	63.8	91.5	57.5

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551110-1

Sample No. 25114637-7
Parameter Noise
Location บ้านชินบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	59.7	83.3	57.1
12:00 PM - 01:00 PM	59.5	74.6	57.1
01:00 PM - 02:00 PM	59.3	78.2	56.9
02:00 PM - 03:00 PM	59.3	74.9	56.8
03:00 PM - 04:00 PM	59.2	70.9	57.1
04:00 PM - 05:00 PM	60.6	81.1	57.3
05:00 PM - 06:00 PM	61.6	87.2	58.6
06:00 PM - 07:00 PM	61.0	77.9	58.5
07:00 PM - 08:00 PM	63.0	86.4	57.8
08:00 PM - 09:00 PM	61.0	81.2	58.0
09:00 PM - 10:00 PM	59.9	74.9	57.9
10:00 PM - 10:05 PM	60.1	75.1	57.7
10:05 PM - 10:10 PM	59.9	70.6	57.7
10:10 PM - 10:15 PM	60.4	73.0	57.9
10:15 PM - 10:20 PM	59.3	65.9	57.4
10:20 PM - 10:25 PM	60.4	69.1	58.6
10:25 PM - 10:30 PM	60.7	76.5	58.8
10:30 PM - 10:35 PM	59.8	72.3	58.3
10:35 PM - 10:40 PM	60.3	72.1	58.2
10:40 PM - 10:45 PM	59.6	67.0	57.9
10:45 PM - 10:50 PM	60.4	65.0	59.1
10:50 PM - 10:55 PM	60.0	66.9	57.5
10:55 PM - 11:00 PM	59.7	72.2	57.6
11:00 PM - 11:05 PM	59.8	66.3	57.9
11:05 PM - 11:10 PM	60.9	75.9	58.5
11:10 PM - 11:15 PM	60.5	67.9	58.6
11:15 PM - 11:20 PM	61.0	70.0	58.9
11:20 PM - 11:25 PM	59.6	68.5	57.7
11:25 PM - 11:30 PM	59.8	69.6	58.0
11:30 PM - 11:35 PM	60.5	70.4	58.7
11:35 PM - 11:40 PM	61.3	70.4	58.7
11:40 PM - 11:45 PM	61.3	72.1	59.2
11:45 PM - 11:50 PM	60.7	71.6	58.3
11:50 PM - 11:55 PM	60.2	69.6	57.6
11:55 PM - 12:00 AM	58.8	66.7	57.2
12:00 AM - 12:05 AM	61.6	84.2	58.1
12:05 AM - 12:10 AM	59.2	67.8	57.7
12:10 AM - 12:15 AM	60.7	72.8	58.4
12:15 AM - 12:20 AM	59.8	73.8	58.0
12:20 AM - 12:25 AM	59.6	74.6	57.5

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551110-1

Sample No. 25114637-7
Parameter Noise
Location บ้านชินบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	59.9	65.4	58.1
12:30 AM - 12:35 AM	58.9	68.0	57.2
12:35 AM - 12:40 AM	59.5	65.3	57.7
12:40 AM - 12:45 AM	59.7	72.0	58.1
12:45 AM - 12:50 AM	59.3	66.5	57.5
12:50 AM - 12:55 AM	59.2	69.8	57.1
12:55 AM - 01:00 AM	59.4	72.9	57.2
01:00 AM - 01:05 AM	59.4	64.9	57.4
01:05 AM - 01:10 AM	59.7	68.5	57.9
01:10 AM - 01:15 AM	60.0	74.7	57.6
01:15 AM - 01:20 AM	59.8	67.4	57.1
01:20 AM - 01:25 AM	60.0	73.9	57.3
01:25 AM - 01:30 AM	58.6	64.5	56.5
01:30 AM - 01:35 AM	59.1	69.5	57.0
01:35 AM - 01:40 AM	59.7	66.7	57.5
01:40 AM - 01:45 AM	59.2	65.7	57.2
01:45 AM - 01:50 AM	59.7	71.1	56.8
01:50 AM - 01:55 AM	59.5	68.7	56.8
01:55 AM - 02:00 AM	59.9	74.5	57.0
02:00 AM - 02:05 AM	58.4	66.0	56.5
02:05 AM - 02:10 AM	59.8	70.7	57.3
02:10 AM - 02:15 AM	60.2	78.0	57.1
02:15 AM - 02:20 AM	59.1	65.7	57.2
02:20 AM - 02:25 AM	59.2	66.0	57.2
02:25 AM - 02:30 AM	59.7	78.5	57.4
02:30 AM - 02:35 AM	59.2	66.6	57.1
02:35 AM - 02:40 AM	60.0	74.4	58.1
02:40 AM - 02:45 AM	59.4	68.6	57.1
02:45 AM - 02:50 AM	60.3	66.0	58.0
02:50 AM - 02:55 AM	62.2	81.8	57.5
02:55 AM - 03:00 AM	58.8	70.9	56.2
03:00 AM - 03:05 AM	58.9	66.5	56.9
03:05 AM - 03:10 AM	59.5	67.1	57.8
03:10 AM - 03:15 AM	58.9	67.4	57.0
03:15 AM - 03:20 AM	59.5	69.2	57.0
03:20 AM - 03:25 AM	64.4	89.5	56.9
03:25 AM - 03:30 AM	58.7	66.4	56.5
03:30 AM - 03:35 AM	59.0	72.6	56.8
03:35 AM - 03:40 AM	59.1	66.9	57.0
03:40 AM - 03:45 AM	60.0	66.9	57.8

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Kanokkorn Anek
Assistant General Manager

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551110-1

Sample No. 25114637-7
Parameter Noise
Location บ้านชัมบอน (จุดอ้างอิง) (GPS 47P 0728138, 1619151) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	60.7	73.1	57.5
03:50 AM - 03:55 AM	58.8	64.5	57.2
03:55 AM - 04:00 AM	59.6	75.9	55.8
04:00 AM - 04:05 AM	59.4	69.2	57.0
04:05 AM - 04:10 AM	59.2	77.0	56.9
04:10 AM - 04:15 AM	58.8	66.4	56.7
04:15 AM - 04:20 AM	59.5	70.3	57.3
04:20 AM - 04:25 AM	58.6	66.2	56.0
04:25 AM - 04:30 AM	60.5	66.2	58.4
04:30 AM - 04:35 AM	59.7	66.9	57.1
04:35 AM - 04:40 AM	59.9	68.1	58.4
04:40 AM - 04:45 AM	59.7	67.0	57.7
04:45 AM - 04:50 AM	60.5	68.7	58.2
04:50 AM - 04:55 AM	59.4	71.7	57.7
04:55 AM - 05:00 AM	59.7	68.9	57.3
05:00 AM - 05:05 AM	61.1	66.6	58.5
05:05 AM - 05:10 AM	60.7	70.4	58.1
05:10 AM - 05:15 AM	59.7	66.7	57.5
05:15 AM - 05:20 AM	59.4	73.2	57.7
05:20 AM - 05:25 AM	59.6	69.6	57.8
05:25 AM - 05:30 AM	60.2	70.2	57.8
05:30 AM - 05:35 AM	59.7	70.9	58.2
05:35 AM - 05:40 AM	61.2	78.1	58.2
05:40 AM - 05:45 AM	60.3	70.6	57.9
05:45 AM - 05:50 AM	60.3	66.0	58.2
05:50 AM - 05:55 AM	60.3	72.7	58.4
05:55 AM - 06:00 AM	60.0	67.3	58.2
06:00 AM - 07:00 AM	61.5	81.0	59.3
07:00 AM - 08:00 AM	61.9	86.3	58.8
08:00 AM - 09:00 AM	59.7	74.3	57.5
09:00 AM - 10:00 AM	63.1	95.6	57.2
10:00 AM - 11:00 AM	59.4	75.3	57.1

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551111-1

Sample No. 25114637-8
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.0	68.0	45.3
12:00 PM - 01:00 PM	49.6	67.1	44.9
01:00 PM - 02:00 PM	48.9	68.0	45.2
02:00 PM - 03:00 PM	50.7	72.3	45.7
03:00 PM - 04:00 PM	51.1	70.4	47.4
04:00 PM - 05:00 PM	51.2	66.4	48.3
05:00 PM - 06:00 PM	52.2	72.2	49.2
06:00 PM - 07:00 PM	53.7	84.9	48.9
07:00 PM - 08:00 PM	51.9	69.6	49.7
08:00 PM - 09:00 PM	51.2	67.7	49.6
09:00 PM - 10:00 PM	55.1	61.8	52.6
10:00 PM - 10:05 PM	59.2	66.2	56.6
10:05 PM - 10:10 PM	57.3	61.6	55.3
10:10 PM - 10:15 PM	59.4	69.1	57.5
10:15 PM - 10:20 PM	59.2	62.6	57.5
10:20 PM - 10:25 PM	59.1	62.2	57.2
10:25 PM - 10:30 PM	59.4	62.8	57.4
10:30 PM - 10:35 PM	59.0	62.5	57.3
10:35 PM - 10:40 PM	59.2	62.6	57.1
10:40 PM - 10:45 PM	59.7	62.8	58.2
10:45 PM - 10:50 PM	58.9	62.5	56.9
10:50 PM - 10:55 PM	59.7	65.9	57.4
10:55 PM - 11:00 PM	59.0	62.8	57.2
11:00 PM - 11:05 PM	58.9	62.5	57.0
11:05 PM - 11:10 PM	58.5	62.2	56.5
11:10 PM - 11:15 PM	59.4	62.7	57.5
11:15 PM - 11:20 PM	59.7	63.1	58.1
11:20 PM - 11:25 PM	59.7	63.1	58.0
11:25 PM - 11:30 PM	59.0	62.1	57.2
11:30 PM - 11:35 PM	58.4	62.0	56.8
11:35 PM - 11:40 PM	58.5	62.2	56.3
11:40 PM - 11:45 PM	57.9	62.7	55.7
11:45 PM - 11:50 PM	58.3	62.4	56.2
11:50 PM - 11:55 PM	58.3	62.2	56.5
11:55 PM - 12:00 AM	58.1	61.4	55.8
12:00 AM - 12:05 AM	57.9	61.0	55.9
12:05 AM - 12:10 AM	57.9	61.5	55.7
12:10 AM - 12:15 AM	57.5	61.3	55.3
12:15 AM - 12:20 AM	57.7	62.0	55.6
12:20 AM - 12:25 AM	56.8	61.4	54.1

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551111-1

Sample No. 25114637-8
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	56.6	60.4	54.8
12:30 AM - 12:35 AM	56.0	59.6	53.9
12:35 AM - 12:40 AM	55.5	59.5	53.3
12:40 AM - 12:45 AM	55.5	59.4	53.2
12:45 AM - 12:50 AM	55.1	60.0	51.9
12:50 AM - 12:55 AM	54.4	58.4	52.2
12:55 AM - 01:00 AM	54.4	59.0	51.1
01:00 AM - 01:05 AM	54.6	60.2	49.6
01:05 AM - 01:10 AM	53.5	59.3	49.1
01:10 AM - 01:15 AM	53.5	57.7	50.9
01:15 AM - 01:20 AM	55.3	67.0	50.0
01:20 AM - 01:25 AM	53.8	58.5	51.2
01:25 AM - 01:30 AM	54.3	60.0	47.2
01:30 AM - 01:35 AM	52.7	58.6	48.1
01:35 AM - 01:40 AM	51.5	57.1	48.0
01:40 AM - 01:45 AM	51.0	57.4	47.6
01:45 AM - 01:50 AM	50.0	54.5	47.4
01:50 AM - 01:55 AM	49.9	54.1	47.7
01:55 AM - 02:00 AM	49.5	54.2	47.2
02:00 AM - 02:05 AM	50.7	55.5	47.6
02:05 AM - 02:10 AM	50.7	56.8	46.1
02:10 AM - 02:15 AM	51.5	56.3	48.2
02:15 AM - 02:20 AM	50.1	55.3	46.5
02:20 AM - 02:25 AM	49.6	55.1	46.2
02:25 AM - 02:30 AM	49.1	56.2	45.7
02:30 AM - 02:35 AM	48.8	59.2	45.5
02:35 AM - 02:40 AM	49.3	64.1	45.5
02:40 AM - 02:45 AM	48.1	56.0	46.0
02:45 AM - 02:50 AM	47.2	56.6	46.0
02:50 AM - 02:55 AM	53.2	64.1	46.2
02:55 AM - 03:00 AM	48.4	57.2	46.4
03:00 AM - 03:05 AM	48.1	52.9	46.3
03:05 AM - 03:10 AM	49.7	53.0	47.3
03:10 AM - 03:15 AM	50.8	57.9	49.7
03:15 AM - 03:20 AM	49.6	57.8	48.2
03:20 AM - 03:25 AM	48.1	56.2	47.3
03:25 AM - 03:30 AM	48.3	52.3	47.1
03:30 AM - 03:35 AM	49.1	56.9	47.5
03:35 AM - 03:40 AM	49.5	56.2	48.0
03:40 AM - 03:45 AM	48.6	52.4	47.8

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551111-1

Sample No. 25114637-8
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	49.9	56.3	48.6
03:50 AM - 03:55 AM	50.1	63.7	48.1
03:55 AM - 04:00 AM	49.6	58.8	48.6
04:00 AM - 04:05 AM	50.9	61.3	48.5
04:05 AM - 04:10 AM	49.4	57.8	48.0
04:10 AM - 04:15 AM	57.9	71.9	47.7
04:15 AM - 04:20 AM	51.2	64.8	48.2
04:20 AM - 04:25 AM	50.4	67.2	47.2
04:25 AM - 04:30 AM	48.7	58.3	46.5
04:30 AM - 04:35 AM	47.9	55.2	47.0
04:35 AM - 04:40 AM	50.1	59.7	47.3
04:40 AM - 04:45 AM	48.6	55.8	46.7
04:45 AM - 04:50 AM	47.7	53.0	46.4
04:50 AM - 04:55 AM	47.1	51.7	46.3
04:55 AM - 05:00 AM	51.1	64.1	46.8
05:00 AM - 05:05 AM	47.7	53.6	46.2
05:05 AM - 05:10 AM	48.8	54.6	47.5
05:10 AM - 05:15 AM	50.8	65.3	47.9
05:15 AM - 05:20 AM	49.6	60.0	47.9
05:20 AM - 05:25 AM	50.0	59.6	48.0
05:25 AM - 05:30 AM	50.3	58.8	48.5
05:30 AM - 05:35 AM	52.2	66.5	49.4
05:35 AM - 05:40 AM	54.6	65.4	51.4
05:40 AM - 05:45 AM	54.3	62.7	52.5
05:45 AM - 05:50 AM	53.0	66.9	50.0
05:50 AM - 05:55 AM	51.3	62.6	49.5
05:55 AM - 06:00 AM	55.1	71.0	49.8
06:00 AM - 07:00 AM	51.2	77.6	48.2
07:00 AM - 08:00 AM	51.5	69.2	49.0
08:00 AM - 09:00 AM	52.4	81.7	49.0
09:00 AM - 10:00 AM	50.7	65.9	48.1
10:00 AM - 11:00 AM	49.6	68.3	47.0

Reference Method :

1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by

Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551112-1

Sample No. 25114637-9
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	47.9	67.2	44.3
12:00 PM - 01:00 PM	51.2	69.4	45.0
01:00 PM - 02:00 PM	49.3	69.7	45.2
02:00 PM - 03:00 PM	49.9	69.6	45.5
03:00 PM - 04:00 PM	50.6	72.1	47.2
04:00 PM - 05:00 PM	51.9	66.9	48.7
05:00 PM - 06:00 PM	55.0	77.5	50.2
06:00 PM - 07:00 PM	51.8	68.5	49.6
07:00 PM - 08:00 PM	51.2	65.4	49.9
08:00 PM - 09:00 PM	50.5	64.9	49.3
09:00 PM - 10:00 PM	51.5	66.6	49.9
10:00 PM - 10:05 PM	57.6	71.1	51.1
10:05 PM - 10:10 PM	51.9	54.3	51.1
10:10 PM - 10:15 PM	51.9	58.1	50.8
10:15 PM - 10:20 PM	51.9	56.8	50.9
10:20 PM - 10:25 PM	52.2	63.2	51.2
10:25 PM - 10:30 PM	51.7	57.5	50.5
10:30 PM - 10:35 PM	50.9	54.3	50.1
10:35 PM - 10:40 PM	51.4	58.6	50.3
10:40 PM - 10:45 PM	51.4	56.2	50.4
10:45 PM - 10:50 PM	51.7	58.6	50.5
10:50 PM - 10:55 PM	51.4	57.9	49.9
10:55 PM - 11:00 PM	52.7	68.2	50.1
11:00 PM - 11:05 PM	50.5	54.7	49.1
11:05 PM - 11:10 PM	50.4	54.5	49.2
11:10 PM - 11:15 PM	53.9	66.3	48.8
11:15 PM - 11:20 PM	50.1	53.4	49.1
11:20 PM - 11:25 PM	50.3	57.8	49.0
11:25 PM - 11:30 PM	50.8	56.1	49.4
11:30 PM - 11:35 PM	50.3	59.8	49.2
11:35 PM - 11:40 PM	51.8	54.7	50.1
11:40 PM - 11:45 PM	51.8	56.5	50.9
11:45 PM - 11:50 PM	51.8	57.2	50.8
11:50 PM - 11:55 PM	50.7	54.6	49.7
11:55 PM - 12:00 AM	50.5	58.9	48.7
12:00 AM - 12:05 AM	50.0	59.2	48.8
12:05 AM - 12:10 AM	50.9	60.1	49.6
12:10 AM - 12:15 AM	50.5	55.0	49.6
12:15 AM - 12:20 AM	50.7	56.8	49.7
12:20 AM - 12:25 AM	50.3	60.7	48.9

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551112-1

Sample No. 25114637-9
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	50.0	53.1	49.2
12:30 AM - 12:35 AM	50.1	56.0	49.0
12:35 AM - 12:40 AM	50.2	54.6	49.2
12:40 AM - 12:45 AM	49.8	53.0	48.6
12:45 AM - 12:50 AM	50.2	53.7	49.2
12:50 AM - 12:55 AM	48.7	56.3	47.7
12:55 AM - 01:00 AM	48.8	54.2	47.8
01:00 AM - 01:05 AM	49.2	60.2	47.4
01:05 AM - 01:10 AM	48.8	55.8	47.9
01:10 AM - 01:15 AM	48.5	54.4	47.7
01:15 AM - 01:20 AM	52.1	65.0	48.1
01:20 AM - 01:25 AM	50.7	55.7	49.7
01:25 AM - 01:30 AM	50.4	53.4	48.1
01:30 AM - 01:35 AM	51.2	54.6	50.5
01:35 AM - 01:40 AM	50.7	54.0	50.2
01:40 AM - 01:45 AM	50.6	52.9	50.0
01:45 AM - 01:50 AM	49.4	54.5	48.2
01:50 AM - 01:55 AM	50.4	52.6	49.7
01:55 AM - 02:00 AM	50.5	57.2	49.1
02:00 AM - 02:05 AM	50.3	56.5	48.6
02:05 AM - 02:10 AM	49.2	51.8	48.2
02:10 AM - 02:15 AM	49.4	53.3	48.5
02:15 AM - 02:20 AM	49.3	54.2	48.4
02:20 AM - 02:25 AM	49.5	55.9	48.4
02:25 AM - 02:30 AM	58.4	71.4	48.2
02:30 AM - 02:35 AM	48.7	55.1	47.2
02:35 AM - 02:40 AM	50.9	55.6	50.1
02:40 AM - 02:45 AM	51.1	54.5	50.4
02:45 AM - 02:50 AM	51.5	56.6	50.7
02:50 AM - 02:55 AM	51.3	57.7	50.3
02:55 AM - 03:00 AM	51.3	54.0	50.3
03:00 AM - 03:05 AM	49.8	53.0	48.2
03:05 AM - 03:10 AM	49.5	51.9	48.5
03:10 AM - 03:15 AM	50.3	53.8	49.0
03:15 AM - 03:20 AM	50.3	56.0	49.4
03:20 AM - 03:25 AM	51.6	60.2	50.6
03:25 AM - 03:30 AM	50.6	53.1	49.8
03:30 AM - 03:35 AM	50.0	53.1	49.0
03:35 AM - 03:40 AM	50.2	54.0	49.3
03:40 AM - 03:45 AM	49.6	52.9	48.3

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551112-1

Sample No. 25114637-9
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	50.8	57.3	49.9
03:50 AM - 03:55 AM	51.4	63.7	49.8
03:55 AM - 04:00 AM	50.7	53.1	49.9
04:00 AM - 04:05 AM	50.9	60.6	49.1
04:05 AM - 04:10 AM	51.0	58.2	49.7
04:10 AM - 04:15 AM	50.4	53.3	49.6
04:15 AM - 04:20 AM	51.0	59.9	49.4
04:20 AM - 04:25 AM	50.3	53.7	48.0
04:25 AM - 04:30 AM	50.8	54.1	50.1
04:30 AM - 04:35 AM	50.7	52.9	49.9
04:35 AM - 04:40 AM	49.9	56.4	48.2
04:40 AM - 04:45 AM	50.1	54.5	49.2
04:45 AM - 04:50 AM	51.4	58.6	50.0
04:50 AM - 04:55 AM	51.6	57.6	50.4
04:55 AM - 05:00 AM	50.9	59.3	49.3
05:00 AM - 05:05 AM	52.1	62.8	49.9
05:05 AM - 05:10 AM	50.3	59.0	48.2
05:10 AM - 05:15 AM	51.5	65.4	48.8
05:15 AM - 05:20 AM	50.6	58.0	48.9
05:20 AM - 05:25 AM	49.7	58.0	48.2
05:25 AM - 05:30 AM	50.4	58.3	48.9
05:30 AM - 05:35 AM	53.6	71.2	49.0
05:35 AM - 05:40 AM	59.0	63.0	54.0
05:40 AM - 05:45 AM	57.4	71.5	55.1
05:45 AM - 05:50 AM	53.1	59.0	49.2
05:50 AM - 05:55 AM	51.0	59.2	49.5
05:55 AM - 06:00 AM	51.3	65.8	49.1
06:00 AM - 07:00 AM	51.0	77.8	48.2
07:00 AM - 08:00 AM	52.1	66.7	49.9
08:00 AM - 09:00 AM	54.8	76.9	50.7
09:00 AM - 10:00 AM	53.6	72.2	49.7
10:00 AM - 11:00 AM	53.8	73.5	48.3

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551113-1

Sample No. 25114637-10
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.3	72.6	48.1
12:00 PM - 01:00 PM	52.0	70.7	47.2
01:00 PM - 02:00 PM	51.7	69.8	46.3
02:00 PM - 03:00 PM	51.8	71.1	46.4
03:00 PM - 04:00 PM	52.3	68.8	47.3
04:00 PM - 05:00 PM	51.7	74.8	48.3
05:00 PM - 06:00 PM	50.4	66.4	48.5
06:00 PM - 07:00 PM	52.1	81.1	48.7
07:00 PM - 08:00 PM	49.8	59.7	48.8
08:00 PM - 09:00 PM	48.9	63.1	47.7
09:00 PM - 10:00 PM	49.6	66.4	48.1
10:00 PM - 10:05 PM	48.3	53.8	46.7
10:05 PM - 10:10 PM	49.7	51.8	49.1
10:10 PM - 10:15 PM	50.0	51.9	49.1
10:15 PM - 10:20 PM	48.9	51.1	48.4
10:20 PM - 10:25 PM	49.1	51.2	48.6
10:25 PM - 10:30 PM	50.3	53.6	48.9
10:30 PM - 10:35 PM	49.5	52.3	48.8
10:35 PM - 10:40 PM	49.7	52.9	48.1
10:40 PM - 10:45 PM	50.9	53.7	50.1
10:45 PM - 10:50 PM	50.9	53.0	49.3
10:50 PM - 10:55 PM	51.5	53.1	51.0
10:55 PM - 11:00 PM	55.0	67.0	51.1
11:00 PM - 11:05 PM	52.0	55.1	51.3
11:05 PM - 11:10 PM	51.7	53.8	51.2
11:10 PM - 11:15 PM	51.7	53.9	50.9
11:15 PM - 11:20 PM	51.6	54.4	50.9
11:20 PM - 11:25 PM	51.7	54.1	51.1
11:25 PM - 11:30 PM	51.5	54.3	50.6
11:30 PM - 11:35 PM	50.7	54.0	49.3
11:35 PM - 11:40 PM	51.0	56.5	50.4
11:40 PM - 11:45 PM	51.0	53.8	50.5
11:45 PM - 11:50 PM	51.2	57.3	50.2
11:50 PM - 11:55 PM	50.7	52.6	49.9
11:55 PM - 12:00 AM	50.5	53.3	49.8
12:00 AM - 12:05 AM	50.9	55.4	50.0
12:05 AM - 12:10 AM	50.6	53.8	49.8
12:10 AM - 12:15 AM	49.7	60.8	48.3
12:15 AM - 12:20 AM	49.0	53.9	48.0
12:20 AM - 12:25 AM	48.3	51.3	47.4

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551113-1

Sample No. 25114637-10
Parameter Noise
Location โรงเรียนอนุนาคทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	49.9	63.2	48.1
12:30 AM - 12:35 AM	50.1	59.2	48.2
12:35 AM - 12:40 AM	49.4	65.1	47.6
12:40 AM - 12:45 AM	49.5	61.9	48.0
12:45 AM - 12:50 AM	49.8	60.6	48.0
12:50 AM - 12:55 AM	48.7	52.5	47.8
12:55 AM - 01:00 AM	49.2	60.3	47.6
01:00 AM - 01:05 AM	48.8	59.7	47.5
01:05 AM - 01:10 AM	49.9	60.3	48.0
01:10 AM - 01:15 AM	50.2	60.4	48.5
01:15 AM - 01:20 AM	58.6	76.3	47.7
01:20 AM - 01:25 AM	48.5	54.2	47.5
01:25 AM - 01:30 AM	48.3	54.6	47.2
01:30 AM - 01:35 AM	47.8	53.1	46.9
01:35 AM - 01:40 AM	48.4	52.3	46.7
01:40 AM - 01:45 AM	47.8	51.6	47.0
01:45 AM - 01:50 AM	47.8	52.0	46.9
01:50 AM - 01:55 AM	48.4	52.6	47.4
01:55 AM - 02:00 AM	48.6	60.4	47.5
02:00 AM - 02:05 AM	49.3	56.6	47.5
02:05 AM - 02:10 AM	49.1	59.5	47.9
02:10 AM - 02:15 AM	48.7	59.1	47.5
02:15 AM - 02:20 AM	49.1	55.0	47.5
02:20 AM - 02:25 AM	50.9	61.6	48.4
02:25 AM - 02:30 AM	50.1	61.0	47.9
02:30 AM - 02:35 AM	51.3	65.0	47.1
02:35 AM - 02:40 AM	48.8	55.3	46.9
02:40 AM - 02:45 AM	48.6	57.0	47.2
02:45 AM - 02:50 AM	49.0	56.0	47.7
02:50 AM - 02:55 AM	49.2	62.5	47.1
02:55 AM - 03:00 AM	48.4	51.8	47.1
03:00 AM - 03:05 AM	47.9	51.4	46.7
03:05 AM - 03:10 AM	47.6	50.9	46.5
03:10 AM - 03:15 AM	48.0	62.5	46.8
03:15 AM - 03:20 AM	47.8	52.2	46.4
03:20 AM - 03:25 AM	48.0	53.8	46.9
03:25 AM - 03:30 AM	48.1	55.1	46.9
03:30 AM - 03:35 AM	47.9	59.1	46.6
03:35 AM - 03:40 AM	47.5	50.5	46.7
03:40 AM - 03:45 AM	47.4	53.5	46.4

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551113-1

Sample No. 25114637-10
Parameter Noise
Location โรงเรียนอนุนาคทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	46.9	54.0	45.6
03:50 AM - 03:55 AM	47.2	58.7	45.5
03:55 AM - 04:00 AM	50.7	62.2	45.7
04:00 AM - 04:05 AM	48.9	61.7	46.1
04:05 AM - 04:10 AM	48.3	58.6	46.6
04:10 AM - 04:15 AM	50.3	62.0	46.3
04:15 AM - 04:20 AM	47.5	53.1	46.0
04:20 AM - 04:25 AM	48.1	54.6	46.0
04:25 AM - 04:30 AM	47.4	53.6	46.1
04:30 AM - 04:35 AM	47.2	52.5	46.1
04:35 AM - 04:40 AM	47.3	56.5	45.5
04:40 AM - 04:45 AM	46.7	50.3	45.8
04:45 AM - 04:50 AM	48.3	56.4	46.1
04:50 AM - 04:55 AM	48.1	59.2	45.7
04:55 AM - 05:00 AM	49.5	63.0	45.9
05:00 AM - 05:05 AM	46.5	53.2	44.7
05:05 AM - 05:10 AM	47.4	61.2	45.8
05:10 AM - 05:15 AM	47.4	57.6	45.5
05:15 AM - 05:20 AM	46.3	54.0	44.9
05:20 AM - 05:25 AM	49.0	62.5	45.4
05:25 AM - 05:30 AM	49.9	66.6	46.0
05:30 AM - 05:35 AM	51.0	67.0	46.7
05:35 AM - 05:40 AM	51.6	62.1	47.9
05:40 AM - 05:45 AM	53.3	70.0	47.1
05:45 AM - 05:50 AM	49.1	65.4	45.9
05:50 AM - 05:55 AM	47.8	62.0	46.3
05:55 AM - 06:00 AM	60.3	74.9	46.9
06:00 AM - 07:00 AM	48.9	75.5	46.1
07:00 AM - 08:00 AM	50.5	71.0	47.2
08:00 AM - 09:00 AM	53.8	71.9	49.3
09:00 AM - 10:00 AM	53.4	70.0	48.9
10:00 AM - 11:00 AM	53.7	73.2	48.7

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551114-1

Sample No. 25114637-11
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.6	74.9	47.8
12:00 PM - 01:00 PM	53.2	76.9	47.1
01:00 PM - 02:00 PM	53.0	72.2	47.9
02:00 PM - 03:00 PM	54.2	73.1	48.8
03:00 PM - 04:00 PM	53.1	74.7	48.7
04:00 PM - 05:00 PM	50.9	69.4	48.1
05:00 PM - 06:00 PM	51.3	71.6	48.8
06:00 PM - 07:00 PM	52.0	78.6	49.4
07:00 PM - 08:00 PM	50.3	60.2	49.3
08:00 PM - 09:00 PM	50.5	64.8	49.4
09:00 PM - 10:00 PM	50.2	69.3	48.2
10:00 PM - 10:05 PM	49.6	52.7	48.7
10:05 PM - 10:10 PM	49.3	52.4	48.8
10:10 PM - 10:15 PM	49.5	52.2	48.8
10:15 PM - 10:20 PM	50.5	65.5	48.6
10:20 PM - 10:25 PM	49.5	53.7	48.2
10:25 PM - 10:30 PM	50.2	55.4	48.7
10:30 PM - 10:35 PM	50.5	59.0	49.0
10:35 PM - 10:40 PM	49.9	53.2	48.6
10:40 PM - 10:45 PM	48.9	51.2	48.1
10:45 PM - 10:50 PM	48.8	55.1	47.6
10:50 PM - 10:55 PM	49.1	53.0	48.2
10:55 PM - 11:00 PM	49.7	52.8	48.8
11:00 PM - 11:05 PM	50.0	53.0	49.2
11:05 PM - 11:10 PM	50.2	59.2	49.4
11:10 PM - 11:15 PM	55.5	69.1	48.7
11:15 PM - 11:20 PM	49.0	52.0	48.1
11:20 PM - 11:25 PM	49.0	52.1	48.2
11:25 PM - 11:30 PM	50.1	57.7	48.8
11:30 PM - 11:35 PM	50.9	53.0	50.3
11:35 PM - 11:40 PM	51.6	56.3	50.6
11:40 PM - 11:45 PM	51.3	55.3	50.8
11:45 PM - 11:50 PM	51.2	52.9	50.6
11:50 PM - 11:55 PM	50.9	53.5	49.9
11:55 PM - 12:00 AM	49.0	50.9	48.3
12:00 AM - 12:05 AM	49.2	52.0	48.4
12:05 AM - 12:10 AM	50.6	53.1	49.9
12:10 AM - 12:15 AM	50.3	55.7	49.5
12:15 AM - 12:20 AM	50.4	52.3	49.4
12:20 AM - 12:25 AM	50.6	52.6	49.9

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551114-1

Sample No. 25114637-11
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	49.8	51.9	49.1
12:30 AM - 12:35 AM	47.4	49.8	46.4
12:35 AM - 12:40 AM	47.9	52.0	47.2
12:40 AM - 12:45 AM	48.2	52.7	47.4
12:45 AM - 12:50 AM	47.8	50.3	47.0
12:50 AM - 12:55 AM	48.0	51.7	47.0
12:55 AM - 01:00 AM	47.8	60.9	46.4
01:00 AM - 01:05 AM	47.4	50.8	46.7
01:05 AM - 01:10 AM	48.6	54.4	47.4
01:10 AM - 01:15 AM	53.4	68.2	46.4
01:15 AM - 01:20 AM	47.5	51.9	46.7
01:20 AM - 01:25 AM	47.4	50.9	46.5
01:25 AM - 01:30 AM	47.2	50.5	46.4
01:30 AM - 01:35 AM	47.8	52.7	46.8
01:35 AM - 01:40 AM	46.8	49.5	46.1
01:40 AM - 01:45 AM	47.9	51.7	47.0
01:45 AM - 01:50 AM	48.0	55.0	47.1
01:50 AM - 01:55 AM	50.4	63.0	47.4
01:55 AM - 02:00 AM	49.0	60.1	46.7
02:00 AM - 02:05 AM	48.7	56.5	46.2
02:05 AM - 02:10 AM	47.4	50.8	46.3
02:10 AM - 02:15 AM	47.6	52.0	46.3
02:15 AM - 02:20 AM	47.5	50.7	46.7
02:20 AM - 02:25 AM	61.2	74.4	47.0
02:25 AM - 02:30 AM	49.1	62.6	46.8
02:30 AM - 02:35 AM	47.6	51.6	46.9
02:35 AM - 02:40 AM	48.0	53.2	46.9
02:40 AM - 02:45 AM	47.7	51.2	46.7
02:45 AM - 02:50 AM	47.7	62.4	46.6
02:50 AM - 02:55 AM	47.3	51.7	46.1
02:55 AM - 03:00 AM	46.2	51.5	45.2
03:00 AM - 03:05 AM	50.3	65.4	46.1
03:05 AM - 03:10 AM	47.7	58.2	46.2
03:10 AM - 03:15 AM	47.5	52.2	46.4
03:15 AM - 03:20 AM	48.9	57.4	46.9
03:20 AM - 03:25 AM	48.8	52.8	47.8
03:25 AM - 03:30 AM	50.2	58.1	47.8
03:30 AM - 03:35 AM	49.3	57.1	47.6
03:35 AM - 03:40 AM	48.5	52.4	47.4
03:40 AM - 03:45 AM	48.8	55.8	46.8

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551114-1

Sample No. 25114637-11
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	48.2	62.3	45.5
03:50 AM - 03:55 AM	47.0	53.4	45.6
03:55 AM - 04:00 AM	45.8	48.7	45.0
04:00 AM - 04:05 AM	48.4	57.9	45.0
04:05 AM - 04:10 AM	47.2	52.1	45.7
04:10 AM - 04:15 AM	47.1	51.0	45.9
04:15 AM - 04:20 AM	49.0	55.5	47.0
04:20 AM - 04:25 AM	47.9	51.9	46.7
04:25 AM - 04:30 AM	54.4	66.7	47.0
04:30 AM - 04:35 AM	48.9	56.1	47.3
04:35 AM - 04:40 AM	49.3	55.6	47.6
04:40 AM - 04:45 AM	49.2	55.3	47.1
04:45 AM - 04:50 AM	49.8	57.7	48.0
04:50 AM - 04:55 AM	50.2	60.6	47.8
04:55 AM - 05:00 AM	52.7	64.3	48.6
05:00 AM - 05:05 AM	49.4	57.0	48.0
05:05 AM - 05:10 AM	49.5	56.8	47.8
05:10 AM - 05:15 AM	48.6	55.0	47.5
05:15 AM - 05:20 AM	48.5	53.5	47.1
05:20 AM - 05:25 AM	49.9	57.4	48.0
05:25 AM - 05:30 AM	51.3	64.1	48.3
05:30 AM - 05:35 AM	50.3	57.8	47.9
05:35 AM - 05:40 AM	58.7	62.3	53.2
05:40 AM - 05:45 AM	50.6	67.1	47.9
05:45 AM - 05:50 AM	50.1	59.8	48.6
05:50 AM - 05:55 AM	50.7	61.6	49.0
05:55 AM - 06:00 AM	52.6	69.1	48.0
06:00 AM - 07:00 AM	50.7	61.9	48.6
07:00 AM - 08:00 AM	53.0	75.3	50.0
08:00 AM - 09:00 AM	53.5	68.5	50.1
09:00 AM - 10:00 AM	54.4	75.3	49.7
10:00 AM - 11:00 AM	52.6	72.1	48.7

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551115-1

Sample No. 25114637-12
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.6	73.3	47.1
12:00 PM - 01:00 PM	52.5	74.5	46.7
01:00 PM - 02:00 PM	51.3	71.5	46.2
02:00 PM - 03:00 PM	51.0	70.2	46.5
03:00 PM - 04:00 PM	51.6	78.5	47.4
04:00 PM - 05:00 PM	51.4	72.7	47.7
05:00 PM - 06:00 PM	51.3	66.8	48.8
06:00 PM - 07:00 PM	52.3	66.2	50.4
07:00 PM - 08:00 PM	51.7	64.5	50.0
08:00 PM - 09:00 PM	54.0	69.0	52.4
09:00 PM - 10:00 PM	53.0	65.9	51.5
10:00 PM - 10:05 PM	49.4	52.2	48.5
10:05 PM - 10:10 PM	49.7	54.6	49.2
10:10 PM - 10:15 PM	49.9	52.2	49.2
10:15 PM - 10:20 PM	50.4	53.7	49.6
10:20 PM - 10:25 PM	50.1	53.0	49.3
10:25 PM - 10:30 PM	50.7	59.3	49.7
10:30 PM - 10:35 PM	50.5	54.0	49.6
10:35 PM - 10:40 PM	50.7	55.3	49.6
10:40 PM - 10:45 PM	50.3	54.2	49.2
10:45 PM - 10:50 PM	50.9	53.8	49.9
10:50 PM - 10:55 PM	54.0	65.4	49.9
10:55 PM - 11:00 PM	51.1	54.6	48.8
11:00 PM - 11:05 PM	51.2	60.9	48.5
11:05 PM - 11:10 PM	51.8	56.6	51.0
11:10 PM - 11:15 PM	52.6	64.9	50.7
11:15 PM - 11:20 PM	52.1	54.6	51.0
11:20 PM - 11:25 PM	53.8	66.3	52.0
11:25 PM - 11:30 PM	53.5	63.7	51.5
11:30 PM - 11:35 PM	52.3	60.4	51.2
11:35 PM - 11:40 PM	52.5	58.6	51.7
11:40 PM - 11:45 PM	52.8	58.3	51.5
11:45 PM - 11:50 PM	53.7	57.2	52.6
11:50 PM - 11:55 PM	52.3	60.5	51.4
11:55 PM - 12:00 AM	51.4	55.3	50.8
12:00 AM - 12:05 AM	51.7	55.2	51.0
12:05 AM - 12:10 AM	51.4	54.2	51.0
12:10 AM - 12:15 AM	51.0	56.0	50.4
12:15 AM - 12:20 AM	48.6	53.2	46.8
12:20 AM - 12:25 AM	47.6	51.6	46.7

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand I PHONE +66 0 2760 3000 I FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551115-1

Sample No. 25114637-12
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	48.2	53.3	47.1
12:30 AM - 12:35 AM	48.0	51.3	47.0
12:35 AM - 12:40 AM	47.9	55.6	47.0
12:40 AM - 12:45 AM	48.1	53.7	47.1
12:45 AM - 12:50 AM	48.4	54.1	47.4
12:50 AM - 12:55 AM	48.8	58.1	47.4
12:55 AM - 01:00 AM	48.2	50.9	47.2
01:00 AM - 01:05 AM	47.2	52.8	46.3
01:05 AM - 01:10 AM	47.9	51.1	46.5
01:10 AM - 01:15 AM	51.1	64.0	46.7
01:15 AM - 01:20 AM	47.7	55.9	46.3
01:20 AM - 01:25 AM	47.9	54.0	46.5
01:25 AM - 01:30 AM	47.9	53.8	46.8
01:30 AM - 01:35 AM	49.3	58.8	47.1
01:35 AM - 01:40 AM	48.6	58.6	47.5
01:40 AM - 01:45 AM	49.8	56.8	47.8
01:45 AM - 01:50 AM	49.6	54.2	48.1
01:50 AM - 01:55 AM	49.1	53.6	47.8
01:55 AM - 02:00 AM	48.6	52.7	47.2
02:00 AM - 02:05 AM	50.0	57.5	48.1
02:05 AM - 02:10 AM	48.4	52.6	47.5
02:10 AM - 02:15 AM	48.5	59.3	47.4
02:15 AM - 02:20 AM	48.1	57.1	47.0
02:20 AM - 02:25 AM	48.1	51.3	47.2
02:25 AM - 02:30 AM	48.0	55.6	46.7
02:30 AM - 02:35 AM	47.9	59.1	46.3
02:35 AM - 02:40 AM	49.4	62.4	47.0
02:40 AM - 02:45 AM	49.5	62.1	46.3
02:45 AM - 02:50 AM	48.2	55.6	46.5
02:50 AM - 02:55 AM	48.4	54.8	47.3
02:55 AM - 03:00 AM	48.3	51.6	46.9
03:00 AM - 03:05 AM	47.4	50.9	46.4
03:05 AM - 03:10 AM	49.3	57.8	47.3
03:10 AM - 03:15 AM	49.9	58.2	48.2
03:15 AM - 03:20 AM	48.9	57.3	47.3
03:20 AM - 03:25 AM	48.2	58.6	46.7
03:25 AM - 03:30 AM	48.2	52.4	46.9
03:30 AM - 03:35 AM	47.8	53.2	46.9
03:35 AM - 03:40 AM	49.0	59.3	47.2
03:40 AM - 03:45 AM	48.5	60.0	47.1

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551115-1

Sample No. 25114637-12
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	48.2	58.1	47.1
03:50 AM - 03:55 AM	49.4	57.1	47.2
03:55 AM - 04:00 AM	47.2	52.4	45.9
04:00 AM - 04:05 AM	49.3	60.6	46.4
04:05 AM - 04:10 AM	49.3	59.1	47.7
04:10 AM - 04:15 AM	49.5	60.9	47.0
04:15 AM - 04:20 AM	49.3	55.4	47.8
04:20 AM - 04:25 AM	49.6	53.5	48.4
04:25 AM - 04:30 AM	57.4	71.5	47.9
04:30 AM - 04:35 AM	48.7	60.2	47.4
04:35 AM - 04:40 AM	49.0	53.3	47.6
04:40 AM - 04:45 AM	48.5	55.6	47.0
04:45 AM - 04:50 AM	48.1	55.5	47.1
04:50 AM - 04:55 AM	47.7	51.2	46.4
04:55 AM - 05:00 AM	51.5	63.2	47.4
05:00 AM - 05:05 AM	47.7	51.1	46.4
05:05 AM - 05:10 AM	47.0	50.3	45.9
05:10 AM - 05:15 AM	47.7	53.1	46.2
05:15 AM - 05:20 AM	49.6	62.0	46.2
05:20 AM - 05:25 AM	49.3	64.1	46.1
05:25 AM - 05:30 AM	52.4	67.0	47.2
05:30 AM - 05:35 AM	52.5	65.9	47.0
05:35 AM - 05:40 AM	54.4	65.7	48.1
05:40 AM - 05:45 AM	52.8	65.0	47.8
05:45 AM - 05:50 AM	51.6	65.9	47.1
05:50 AM - 05:55 AM	50.5	67.0	46.9
05:55 AM - 06:00 AM	49.2	65.2	47.5
06:00 AM - 07:00 AM	49.7	65.1	47.7
07:00 AM - 08:00 AM	52.8	71.8	48.9
08:00 AM - 09:00 AM	52.1	75.5	48.7
09:00 AM - 10:00 AM	52.3	69.3	48.7
10:00 AM - 11:00 AM	52.0	73.7	47.7

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551116-1

Sample No. 25114637-13
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.7	70.4	46.2
12:00 PM - 01:00 PM	49.4	69.7	45.5
01:00 PM - 02:00 PM	50.1	70.8	44.6
02:00 PM - 03:00 PM	49.3	68.1	44.2
03:00 PM - 04:00 PM	50.2	71.3	44.8
04:00 PM - 05:00 PM	50.8	78.0	45.0
05:00 PM - 06:00 PM	47.3	65.4	45.3
06:00 PM - 07:00 PM	49.0	64.6	47.2
07:00 PM - 08:00 PM	51.2	60.3	50.0
08:00 PM - 09:00 PM	53.1	70.0	51.4
09:00 PM - 10:00 PM	53.6	70.5	51.7
10:00 PM - 10:05 PM	54.4	61.3	52.6
10:05 PM - 10:10 PM	56.3	66.2	52.2
10:10 PM - 10:15 PM	53.6	59.1	51.7
10:15 PM - 10:20 PM	52.9	59.4	51.4
10:20 PM - 10:25 PM	52.7	59.8	51.0
10:25 PM - 10:30 PM	53.4	61.1	51.8
10:30 PM - 10:35 PM	53.6	59.6	51.6
10:35 PM - 10:40 PM	54.2	60.3	52.7
10:40 PM - 10:45 PM	54.1	60.4	52.0
10:45 PM - 10:50 PM	55.4	62.7	53.1
10:50 PM - 10:55 PM	54.2	65.0	52.0
10:55 PM - 11:00 PM	54.0	63.8	51.4
11:00 PM - 11:05 PM	51.5	56.2	50.0
11:05 PM - 11:10 PM	52.4	56.5	50.1
11:10 PM - 11:15 PM	56.0	68.7	49.7
11:15 PM - 11:20 PM	52.6	59.4	49.2
11:20 PM - 11:25 PM	53.0	58.1	49.0
11:25 PM - 11:30 PM	53.6	58.2	49.4
11:30 PM - 11:35 PM	55.0	60.9	50.5
11:35 PM - 11:40 PM	55.0	59.3	51.9
11:40 PM - 11:45 PM	55.1	58.9	52.4
11:45 PM - 11:50 PM	55.2	59.8	52.6
11:50 PM - 11:55 PM	54.8	59.5	50.8
11:55 PM - 12:00 AM	54.9	59.7	51.9
12:00 AM - 12:05 AM	54.6	59.2	50.9
12:05 AM - 12:10 AM	55.8	59.7	52.7
12:10 AM - 12:15 AM	56.1	60.4	53.1
12:15 AM - 12:20 AM	55.7	60.6	52.5
12:20 AM - 12:25 AM	55.8	59.7	53.6

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551116-1

Sample No. 25114637-13
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	55.2	59.2	52.9
12:30 AM - 12:35 AM	56.6	61.1	52.8
12:35 AM - 12:40 AM	55.1	60.4	52.2
12:40 AM - 12:45 AM	54.8	59.4	51.3
12:45 AM - 12:50 AM	55.1	59.3	52.7
12:50 AM - 12:55 AM	53.9	59.2	48.0
12:55 AM - 01:00 AM	53.7	58.8	51.3
01:00 AM - 01:05 AM	53.8	59.3	49.7
01:05 AM - 01:10 AM	54.4	59.0	51.7
01:10 AM - 01:15 AM	53.6	62.2	48.1
01:15 AM - 01:20 AM	54.0	66.3	46.5
01:20 AM - 01:25 AM	53.7	58.4	51.0
01:25 AM - 01:30 AM	52.5	57.4	50.3
01:30 AM - 01:35 AM	52.0	58.1	47.8
01:35 AM - 01:40 AM	52.7	58.0	50.6
01:40 AM - 01:45 AM	50.8	55.9	47.5
01:45 AM - 01:50 AM	50.4	55.6	47.9
01:50 AM - 01:55 AM	49.9	56.8	47.3
01:55 AM - 02:00 AM	48.3	54.4	46.0
02:00 AM - 02:05 AM	47.9	53.8	45.7
02:05 AM - 02:10 AM	48.9	55.4	45.5
02:10 AM - 02:15 AM	48.9	54.0	46.4
02:15 AM - 02:20 AM	49.6	54.4	47.0
02:20 AM - 02:25 AM	48.3	54.7	45.6
02:25 AM - 02:30 AM	47.3	54.5	45.7
02:30 AM - 02:35 AM	47.5	54.8	45.8
02:35 AM - 02:40 AM	48.4	53.1	46.1
02:40 AM - 02:45 AM	60.2	73.9	45.6
02:45 AM - 02:50 AM	48.2	54.8	45.9
02:50 AM - 02:55 AM	46.7	53.1	45.3
02:55 AM - 03:00 AM	46.3	50.1	45.2
03:00 AM - 03:05 AM	45.8	50.1	44.9
03:05 AM - 03:10 AM	48.9	58.3	44.6
03:10 AM - 03:15 AM	46.0	56.2	44.5
03:15 AM - 03:20 AM	45.1	52.9	44.3
03:20 AM - 03:25 AM	45.5	48.7	44.6
03:25 AM - 03:30 AM	46.4	49.8	45.2
03:30 AM - 03:35 AM	46.6	51.7	45.4
03:35 AM - 03:40 AM	45.7	50.6	44.9
03:40 AM - 03:45 AM	46.0	50.3	45.0

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551116-1

Sample No. 25114637-13
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	46.1	50.1	45.2
03:50 AM - 03:55 AM	46.8	54.7	44.9
03:55 AM - 04:00 AM	49.5	57.5	46.1
04:00 AM - 04:05 AM	47.7	55.0	46.2
04:05 AM - 04:10 AM	47.4	51.2	46.0
04:10 AM - 04:15 AM	48.4	56.3	46.7
04:15 AM - 04:20 AM	48.7	56.9	45.6
04:20 AM - 04:25 AM	47.7	57.9	45.7
04:25 AM - 04:30 AM	46.8	53.2	45.0
04:30 AM - 04:35 AM	47.9	58.1	45.7
04:35 AM - 04:40 AM	47.4	57.6	45.4
04:40 AM - 04:45 AM	47.4	56.7	45.8
04:45 AM - 04:50 AM	48.4	57.2	46.3
04:50 AM - 04:55 AM	48.6	56.5	47.3
04:55 AM - 05:00 AM	52.6	64.7	47.4
05:00 AM - 05:05 AM	48.9	57.7	47.2
05:05 AM - 05:10 AM	48.8	56.5	46.9
05:10 AM - 05:15 AM	47.7	51.2	46.4
05:15 AM - 05:20 AM	48.6	56.2	46.4
05:20 AM - 05:25 AM	49.3	55.8	47.3
05:25 AM - 05:30 AM	49.3	57.5	46.9
05:30 AM - 05:35 AM	52.4	61.1	48.0
05:35 AM - 05:40 AM	56.0	61.2	55.0
05:40 AM - 05:45 AM	51.7	64.9	48.2
05:45 AM - 05:50 AM	51.2	66.5	47.4
05:50 AM - 05:55 AM	47.8	58.2	45.8
05:55 AM - 06:00 AM	48.2	55.1	46.1
06:00 AM - 07:00 AM	51.0	72.2	47.3
07:00 AM - 08:00 AM	50.7	66.5	47.5
08:00 AM - 09:00 AM	53.3	69.8	48.8
09:00 AM - 10:00 AM	52.1	70.8	48.5
10:00 AM - 11:00 AM	50.8	70.2	47.0

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551117-1

Sample No. 25114637-14
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.2	71.7	45.5
12:00 PM - 01:00 PM	51.1	70.4	45.9
01:00 PM - 02:00 PM	50.3	68.6	45.4
02:00 PM - 03:00 PM	51.8	71.0	46.0
03:00 PM - 04:00 PM	49.5	76.2	45.4
04:00 PM - 05:00 PM	49.6	68.6	46.8
05:00 PM - 06:00 PM	51.0	68.6	48.5
06:00 PM - 07:00 PM	51.1	70.1	48.7
07:00 PM - 08:00 PM	50.2	65.7	48.8
08:00 PM - 09:00 PM	51.8	71.8	50.0
09:00 PM - 10:00 PM	54.7	73.2	51.9
10:00 PM - 10:05 PM	57.3	60.5	55.6
10:05 PM - 10:10 PM	57.4	61.5	55.2
10:10 PM - 10:15 PM	57.9	61.8	55.8
10:15 PM - 10:20 PM	58.4	62.3	56.5
10:20 PM - 10:25 PM	60.3	64.0	58.2
10:25 PM - 10:30 PM	59.9	63.6	58.3
10:30 PM - 10:35 PM	60.5	65.1	58.8
10:35 PM - 10:40 PM	60.5	64.0	59.1
10:40 PM - 10:45 PM	60.1	63.6	57.8
10:45 PM - 10:50 PM	60.1	64.9	58.2
10:50 PM - 10:55 PM	60.2	63.7	58.8
10:55 PM - 11:00 PM	60.2	64.0	58.5
11:00 PM - 11:05 PM	60.3	63.8	58.5
11:05 PM - 11:10 PM	60.9	64.5	59.5
11:10 PM - 11:15 PM	61.0	65.1	59.2
11:15 PM - 11:20 PM	61.2	67.3	59.0
11:20 PM - 11:25 PM	60.7	65.8	58.9
11:25 PM - 11:30 PM	61.1	64.1	59.8
11:30 PM - 11:35 PM	60.8	64.2	59.1
11:35 PM - 11:40 PM	61.0	64.4	59.6
11:40 PM - 11:45 PM	61.1	64.3	59.6
11:45 PM - 11:50 PM	60.8	64.1	59.5
11:50 PM - 11:55 PM	60.4	63.7	58.8
11:55 PM - 12:00 AM	60.2	63.1	58.7
12:00 AM - 12:05 AM	60.6	63.9	59.3
12:05 AM - 12:10 AM	60.1	63.1	58.5
12:10 AM - 12:15 AM	59.4	63.0	58.1
12:15 AM - 12:20 AM	60.2	63.6	58.7
12:20 AM - 12:25 AM	59.7	63.3	57.9

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551117-1

Sample No. 25114637-14
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	59.7	63.2	57.9
12:30 AM - 12:35 AM	59.8	63.6	58.0
12:35 AM - 12:40 AM	59.3	62.8	57.7
12:40 AM - 12:45 AM	59.3	63.2	57.6
12:45 AM - 12:50 AM	59.2	62.8	57.5
12:50 AM - 12:55 AM	59.4	63.3	57.4
12:55 AM - 01:00 AM	58.6	61.2	57.1
01:00 AM - 01:05 AM	59.0	62.3	57.2
01:05 AM - 01:10 AM	58.9	62.6	57.0
01:10 AM - 01:15 AM	59.2	67.8	56.8
01:15 AM - 01:20 AM	57.8	61.6	56.1
01:20 AM - 01:25 AM	57.5	60.9	56.0
01:25 AM - 01:30 AM	57.3	60.6	55.6
01:30 AM - 01:35 AM	56.4	64.0	54.7
01:35 AM - 01:40 AM	56.2	60.4	54.1
01:40 AM - 01:45 AM	55.8	60.2	52.5
01:45 AM - 01:50 AM	55.9	59.6	52.7
01:50 AM - 01:55 AM	54.9	59.4	51.4
01:55 AM - 02:00 AM	54.5	58.8	52.0
02:00 AM - 02:05 AM	54.5	61.0	51.8
02:05 AM - 02:10 AM	54.5	60.0	51.3
02:10 AM - 02:15 AM	54.2	60.2	51.4
02:15 AM - 02:20 AM	53.3	57.0	50.9
02:20 AM - 02:25 AM	52.4	56.1	49.4
02:25 AM - 02:30 AM	52.9	59.2	50.6
02:30 AM - 02:35 AM	53.0	59.9	49.9
02:35 AM - 02:40 AM	53.1	58.4	49.2
02:40 AM - 02:45 AM	51.1	58.0	47.6
02:45 AM - 02:50 AM	52.4	56.8	49.4
02:50 AM - 02:55 AM	52.4	56.6	49.0
02:55 AM - 03:00 AM	52.0	60.2	50.0
03:00 AM - 03:05 AM	51.5	68.0	48.4
03:05 AM - 03:10 AM	51.2	57.4	49.0
03:10 AM - 03:15 AM	52.3	57.5	50.1
03:15 AM - 03:20 AM	50.4	57.4	47.5
03:20 AM - 03:25 AM	49.7	54.8	46.3
03:25 AM - 03:30 AM	50.4	58.8	47.2
03:30 AM - 03:35 AM	50.0	60.1	47.8
03:35 AM - 03:40 AM	50.6	56.2	46.8
03:40 AM - 03:45 AM	49.4	54.6	46.4

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551117-1

Sample No. 25114637-14
Parameter Noise
Location โรงเรียนอนุบาลทับกวาง (จุดอ้างอิง) (GPS 47P 0723003, 1616408) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00710639

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	51.5	57.9	48.4
03:50 AM - 03:55 AM	51.4	57.3	47.5
03:55 AM - 04:00 AM	50.8	59.6	47.8
04:00 AM - 04:05 AM	51.3	60.5	48.3
04:05 AM - 04:10 AM	49.9	59.1	46.9
04:10 AM - 04:15 AM	50.7	58.1	47.6
04:15 AM - 04:20 AM	61.0	83.3	49.0
04:20 AM - 04:25 AM	64.7	83.2	48.6
04:25 AM - 04:30 AM	49.9	57.8	48.1
04:30 AM - 04:35 AM	51.5	61.0	48.1
04:35 AM - 04:40 AM	50.6	58.8	47.1
04:40 AM - 04:45 AM	49.6	61.8	46.4
04:45 AM - 04:50 AM	49.2	61.0	46.1
04:50 AM - 04:55 AM	49.4	57.9	46.8
04:55 AM - 05:00 AM	52.0	63.8	45.5
05:00 AM - 05:05 AM	47.3	58.9	45.1
05:05 AM - 05:10 AM	48.1	59.4	45.6
05:10 AM - 05:15 AM	57.7	72.3	45.8
05:15 AM - 05:20 AM	61.7	81.8	46.4
05:20 AM - 05:25 AM	63.9	81.5	46.9
05:25 AM - 05:30 AM	63.5	81.0	46.7
05:30 AM - 05:35 AM	51.4	60.9	47.6
05:35 AM - 05:40 AM	49.9	62.5	47.0
05:40 AM - 05:45 AM	49.4	57.0	47.0
05:45 AM - 05:50 AM	49.5	62.2	48.2
05:50 AM - 05:55 AM	49.1	59.4	47.7
05:55 AM - 06:00 AM	54.2	78.0	48.4
06:00 AM - 07:00 AM	49.7	63.8	48.2
07:00 AM - 08:00 AM	51.5	68.1	48.8
08:00 AM - 09:00 AM	52.3	68.5	49.4
09:00 AM - 10:00 AM	51.0	70.6	47.6
10:00 AM - 11:00 AM	51.5	74.5	46.6

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551118-1

Sample No. 25114637-15
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	55.0	85.1	40.8
12:00 PM - 01:00 PM	51.8	69.7	40.2
01:00 PM - 02:00 PM	50.9	71.4	40.5
02:00 PM - 03:00 PM	53.4	70.6	41.4
03:00 PM - 04:00 PM	56.6	79.1	40.5
04:00 PM - 05:00 PM	51.8	73.0	41.4
05:00 PM - 06:00 PM	54.9	80.1	41.2
06:00 PM - 07:00 PM	51.9	78.4	42.0
07:00 PM - 08:00 PM	42.8	60.3	41.2
08:00 PM - 09:00 PM	44.4	65.8	41.7
09:00 PM - 10:00 PM	55.5	82.1	39.8
10:00 PM - 10:05 PM	41.3	54.0	37.7
10:05 PM - 10:10 PM	39.1	44.6	37.6
10:10 PM - 10:15 PM	39.5	44.3	37.8
10:15 PM - 10:20 PM	45.1	67.5	39.5
10:20 PM - 10:25 PM	41.6	46.2	40.4
10:25 PM - 10:30 PM	46.8	61.7	40.1
10:30 PM - 10:35 PM	41.7	47.9	40.5
10:35 PM - 10:40 PM	40.2	50.7	38.7
10:40 PM - 10:45 PM	39.2	42.7	38.2
10:45 PM - 10:50 PM	40.0	52.5	38.3
10:50 PM - 10:55 PM	41.5	47.2	39.7
10:55 PM - 11:00 PM	41.3	50.7	39.7
11:00 PM - 11:05 PM	42.1	50.9	40.6
11:05 PM - 11:10 PM	46.2	57.1	40.4
11:10 PM - 11:15 PM	42.1	45.8	40.7
11:15 PM - 11:20 PM	44.2	53.7	41.1
11:20 PM - 11:25 PM	42.0	44.7	39.9
11:25 PM - 11:30 PM	42.8	57.0	39.6
11:30 PM - 11:35 PM	42.0	59.6	38.3
11:35 PM - 11:40 PM	40.0	48.1	38.7
11:40 PM - 11:45 PM	41.5	59.7	39.2
11:45 PM - 11:50 PM	40.3	50.7	38.9
11:50 PM - 11:55 PM	40.0	47.6	38.7
11:55 PM - 12:00 AM	39.4	50.1	37.7
12:00 AM - 12:05 AM	39.3	45.8	37.8
12:05 AM - 12:10 AM	39.8	44.8	38.7
12:10 AM - 12:15 AM	40.0	45.5	38.9
12:15 AM - 12:20 AM	45.5	66.5	38.7
12:20 AM - 12:25 AM	42.1	59.5	40.0

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Approved by

Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551118-1

Sample No. 25114637-15
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	41.3	48.4	39.8
12:30 AM - 12:35 AM	40.2	52.6	39.2
12:35 AM - 12:40 AM	40.1	52.1	38.5
12:40 AM - 12:45 AM	41.2	62.6	38.4
12:45 AM - 12:50 AM	40.6	50.0	38.7
12:50 AM - 12:55 AM	40.0	49.9	38.7
12:55 AM - 01:00 AM	39.7	44.3	38.4
01:00 AM - 01:05 AM	51.8	70.4	38.6
01:05 AM - 01:10 AM	41.5	60.0	38.3
01:10 AM - 01:15 AM	40.3	52.0	38.1
01:15 AM - 01:20 AM	40.2	54.5	37.9
01:20 AM - 01:25 AM	39.0	44.4	37.6
01:25 AM - 01:30 AM	40.1	46.7	38.6
01:30 AM - 01:35 AM	40.0	50.8	37.6
01:35 AM - 01:40 AM	39.6	44.0	37.7
01:40 AM - 01:45 AM	39.7	44.6	37.3
01:45 AM - 01:50 AM	40.0	50.8	38.1
01:50 AM - 01:55 AM	41.0	49.3	38.1
01:55 AM - 02:00 AM	41.0	53.0	38.8
02:00 AM - 02:05 AM	40.5	52.4	38.0
02:05 AM - 02:10 AM	40.7	50.7	38.1
02:10 AM - 02:15 AM	41.6	54.2	38.8
02:15 AM - 02:20 AM	39.6	49.7	37.8
02:20 AM - 02:25 AM	40.6	56.0	38.1
02:25 AM - 02:30 AM	40.0	50.2	38.0
02:30 AM - 02:35 AM	42.7	60.5	39.5
02:35 AM - 02:40 AM	40.4	48.1	39.2
02:40 AM - 02:45 AM	41.4	54.1	39.5
02:45 AM - 02:50 AM	51.7	69.3	39.5
02:50 AM - 02:55 AM	42.0	61.2	39.3
02:55 AM - 03:00 AM	40.3	53.8	38.7
03:00 AM - 03:05 AM	40.7	54.4	38.8
03:05 AM - 03:10 AM	40.4	52.3	38.6
03:10 AM - 03:15 AM	40.1	49.9	39.0
03:15 AM - 03:20 AM	43.2	52.8	40.3
03:20 AM - 03:25 AM	70.4	89.2	41.7
03:25 AM - 03:30 AM	42.7	51.3	40.8
03:30 AM - 03:35 AM	44.0	51.1	41.9
03:35 AM - 03:40 AM	42.2	48.8	41.0
03:40 AM - 03:45 AM	43.5	49.3	41.9

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551118-1

Sample No. 25114637-15
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	42.0	48.8	40.3
03:50 AM - 03:55 AM	42.2	51.6	40.5
03:55 AM - 04:00 AM	55.0	72.9	39.8
04:00 AM - 04:05 AM	40.8	49.6	39.4
04:05 AM - 04:10 AM	41.8	52.5	40.2
04:10 AM - 04:15 AM	52.9	71.1	40.2
04:15 AM - 04:20 AM	51.8	69.8	40.6
04:20 AM - 04:25 AM	49.2	64.0	38.8
04:25 AM - 04:30 AM	57.5	72.7	39.1
04:30 AM - 04:35 AM	53.4	73.3	39.4
04:35 AM - 04:40 AM	43.5	64.2	38.6
04:40 AM - 04:45 AM	55.1	73.3	39.7
04:45 AM - 04:50 AM	54.0	71.1	38.9
04:50 AM - 04:55 AM	58.0	73.6	39.4
04:55 AM - 05:00 AM	55.7	73.7	40.6
05:00 AM - 05:05 AM	56.1	72.3	40.3
05:05 AM - 05:10 AM	57.2	74.1	40.9
05:10 AM - 05:15 AM	58.2	75.9	40.5
05:15 AM - 05:20 AM	59.5	75.1	40.4
05:20 AM - 05:25 AM	58.7	75.9	40.7
05:25 AM - 05:30 AM	58.1	75.3	39.9
05:30 AM - 05:35 AM	59.8	74.9	39.7
05:35 AM - 05:40 AM	60.2	74.9	40.3
05:40 AM - 05:45 AM	61.3	73.0	41.3
05:45 AM - 05:50 AM	61.9	72.6	45.9
05:50 AM - 05:55 AM	61.4	72.6	46.5
05:55 AM - 06:00 AM	60.4	72.3	44.7
06:00 AM - 07:00 AM	58.2	78.3	43.8
07:00 AM - 08:00 AM	55.8	73.0	45.2
08:00 AM - 09:00 AM	59.7	88.6	43.6
09:00 AM - 10:00 AM	54.4	77.9	43.3
10:00 AM - 11:00 AM	52.9	74.0	42.6

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551119-1

Sample No. 25114637-16
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.6	73.0	41.3
12:00 PM - 01:00 PM	53.8	83.0	42.2
01:00 PM - 02:00 PM	54.2	80.1	42.3
02:00 PM - 03:00 PM	52.2	73.2	41.7
03:00 PM - 04:00 PM	56.6	79.0	39.7
04:00 PM - 05:00 PM	49.6	73.4	40.4
05:00 PM - 06:00 PM	55.7	84.4	41.7
06:00 PM - 07:00 PM	52.9	74.6	42.7
07:00 PM - 08:00 PM	44.4	62.5	42.2
08:00 PM - 09:00 PM	43.2	64.0	41.2
09:00 PM - 10:00 PM	42.3	57.7	40.2
10:00 PM - 10:05 PM	44.7	61.3	40.6
10:05 PM - 10:10 PM	43.2	56.0	40.7
10:10 PM - 10:15 PM	42.5	51.5	40.8
10:15 PM - 10:20 PM	43.0	51.2	41.1
10:20 PM - 10:25 PM	42.5	48.1	40.7
10:25 PM - 10:30 PM	42.7	47.5	41.1
10:30 PM - 10:35 PM	42.8	49.2	41.5
10:35 PM - 10:40 PM	42.8	51.9	40.7
10:40 PM - 10:45 PM	42.6	50.0	40.9
10:45 PM - 10:50 PM	45.2	56.2	41.6
10:50 PM - 10:55 PM	42.6	47.5	41.0
10:55 PM - 11:00 PM	43.1	53.1	41.3
11:00 PM - 11:05 PM	43.7	55.1	40.4
11:05 PM - 11:10 PM	43.5	53.0	40.9
11:10 PM - 11:15 PM	43.3	53.4	41.0
11:15 PM - 11:20 PM	44.5	58.8	41.5
11:20 PM - 11:25 PM	45.5	56.8	40.2
11:25 PM - 11:30 PM	41.7	45.7	40.4
11:30 PM - 11:35 PM	41.6	45.3	40.0
11:35 PM - 11:40 PM	42.0	47.1	40.5
11:40 PM - 11:45 PM	42.3	47.6	40.9
11:45 PM - 11:50 PM	44.2	48.4	41.7
11:50 PM - 11:55 PM	46.1	55.1	43.3
11:55 PM - 12:00 AM	46.8	55.4	44.0
12:00 AM - 12:05 AM	49.7	58.4	44.7
12:05 AM - 12:10 AM	48.1	56.3	45.3
12:10 AM - 12:15 AM	47.6	55.3	45.8
12:15 AM - 12:20 AM	49.0	68.3	41.4
12:20 AM - 12:25 AM	45.9	55.5	42.0

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Kanokkorn Anek
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ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551119-1

Sample No. 25114637-16
Parameter Noise
Location บ้านผาเสดิจ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	46.8	55.5	41.9
12:30 AM - 12:35 AM	48.5	56.5	44.6
12:35 AM - 12:40 AM	48.8	57.9	44.3
12:40 AM - 12:45 AM	49.0	58.7	44.8
12:45 AM - 12:50 AM	48.2	56.9	44.9
12:50 AM - 12:55 AM	48.6	56.9	45.6
12:55 AM - 01:00 AM	47.8	56.9	44.9
01:00 AM - 01:05 AM	47.0	56.9	44.0
01:05 AM - 01:10 AM	47.0	56.4	42.9
01:10 AM - 01:15 AM	46.7	56.6	42.6
01:15 AM - 01:20 AM	45.5	55.9	41.7
01:20 AM - 01:25 AM	46.2	56.8	41.8
01:25 AM - 01:30 AM	45.4	55.4	41.1
01:30 AM - 01:35 AM	46.2	56.4	40.3
01:35 AM - 01:40 AM	46.7	55.6	40.9
01:40 AM - 01:45 AM	45.7	55.5	41.8
01:45 AM - 01:50 AM	45.1	55.3	41.3
01:50 AM - 01:55 AM	45.3	55.6	41.7
01:55 AM - 02:00 AM	46.2	55.6	42.1
02:00 AM - 02:05 AM	45.5	55.8	41.7
02:05 AM - 02:10 AM	45.3	54.9	41.6
02:10 AM - 02:15 AM	45.5	55.6	41.8
02:15 AM - 02:20 AM	46.7	55.9	43.2
02:20 AM - 02:25 AM	44.7	55.9	41.1
02:25 AM - 02:30 AM	43.7	53.7	40.6
02:30 AM - 02:35 AM	44.2	54.3	41.2
02:35 AM - 02:40 AM	43.7	54.0	41.2
02:40 AM - 02:45 AM	43.7	55.4	40.5
02:45 AM - 02:50 AM	42.1	51.2	40.1
02:50 AM - 02:55 AM	43.4	52.6	40.8
02:55 AM - 03:00 AM	42.4	46.7	40.1
03:00 AM - 03:05 AM	43.5	57.9	41.0
03:05 AM - 03:10 AM	43.1	58.5	40.7
03:10 AM - 03:15 AM	50.7	66.6	39.4
03:15 AM - 03:20 AM	40.7	59.2	38.4
03:20 AM - 03:25 AM	39.6	51.2	37.8
03:25 AM - 03:30 AM	40.1	52.0	38.6
03:30 AM - 03:35 AM	39.2	49.2	37.8
03:35 AM - 03:40 AM	53.1	71.3	38.8
03:40 AM - 03:45 AM	45.1	66.6	38.8

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551119-1

Sample No. 25114637-16
Parameter Noise
Location บ้านผาเสดิจ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	41.5	50.4	39.9
03:50 AM - 03:55 AM	41.2	50.3	39.5
03:55 AM - 04:00 AM	40.7	49.9	39.6
04:00 AM - 04:05 AM	42.0	51.5	40.4
04:05 AM - 04:10 AM	53.5	68.3	40.4
04:10 AM - 04:15 AM	50.3	68.6	39.8
04:15 AM - 04:20 AM	52.6	70.1	40.1
04:20 AM - 04:25 AM	49.6	71.6	40.0
04:25 AM - 04:30 AM	42.1	55.4	40.4
04:30 AM - 04:35 AM	53.5	70.1	40.1
04:35 AM - 04:40 AM	53.4	65.9	40.0
04:40 AM - 04:45 AM	53.9	69.2	40.2
04:45 AM - 04:50 AM	47.9	64.0	40.1
04:50 AM - 04:55 AM	56.3	71.3	40.0
04:55 AM - 05:00 AM	55.9	70.1	40.2
05:00 AM - 05:05 AM	57.4	72.6	40.5
05:05 AM - 05:10 AM	56.1	69.6	40.1
05:10 AM - 05:15 AM	57.6	74.7	40.4
05:15 AM - 05:20 AM	57.9	72.8	41.1
05:20 AM - 05:25 AM	54.6	74.6	40.1
05:25 AM - 05:30 AM	58.0	75.4	40.2
05:30 AM - 05:35 AM	58.9	75.1	40.7
05:35 AM - 05:40 AM	59.1	74.9	41.5
05:40 AM - 05:45 AM	61.1	74.6	43.2
05:45 AM - 05:50 AM	62.1	71.9	46.7
05:50 AM - 05:55 AM	61.6	75.0	46.4
05:55 AM - 06:00 AM	60.5	74.8	44.3
06:00 AM - 07:00 AM	58.5	79.2	44.6
07:00 AM - 08:00 AM	57.6	83.6	46.0
08:00 AM - 09:00 AM	59.6	86.1	46.1
09:00 AM - 10:00 AM	57.8	77.4	46.0
10:00 AM - 11:00 AM	54.0	85.1	45.0

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551120-1

Sample No. 25114637-17
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.9	85.1	44.0
12:00 PM - 01:00 PM	52.3	76.4	43.6
01:00 PM - 02:00 PM	50.9	74.4	42.4
02:00 PM - 03:00 PM	58.2	83.7	41.6
03:00 PM - 04:00 PM	50.8	72.1	41.5
04:00 PM - 05:00 PM	53.1	80.0	41.5
05:00 PM - 06:00 PM	52.8	79.8	41.3
06:00 PM - 07:00 PM	53.8	76.6	42.2
07:00 PM - 08:00 PM	43.9	55.9	42.5
08:00 PM - 09:00 PM	45.7	64.2	41.4
09:00 PM - 10:00 PM	47.4	67.1	39.8
10:00 PM - 10:05 PM	40.9	53.6	37.9
10:05 PM - 10:10 PM	40.4	44.4	37.8
10:10 PM - 10:15 PM	47.8	57.5	39.2
10:15 PM - 10:20 PM	41.5	48.2	39.6
10:20 PM - 10:25 PM	40.6	48.8	38.4
10:25 PM - 10:30 PM	43.6	61.8	38.5
10:30 PM - 10:35 PM	47.7	58.6	39.2
10:35 PM - 10:40 PM	42.8	57.2	39.0
10:40 PM - 10:45 PM	41.5	51.4	38.7
10:45 PM - 10:50 PM	48.1	62.7	39.5
10:50 PM - 10:55 PM	42.5	47.9	40.2
10:55 PM - 11:00 PM	41.9	46.8	39.3
11:00 PM - 11:05 PM	42.2	46.9	39.6
11:05 PM - 11:10 PM	54.8	66.3	39.7
11:10 PM - 11:15 PM	51.2	65.7	40.8
11:15 PM - 11:20 PM	46.8	64.1	40.4
11:20 PM - 11:25 PM	43.7	61.5	38.4
11:25 PM - 11:30 PM	42.5	48.6	39.5
11:30 PM - 11:35 PM	41.9	47.2	39.1
11:35 PM - 11:40 PM	54.0	64.5	40.1
11:40 PM - 11:45 PM	50.9	65.5	43.1
11:45 PM - 11:50 PM	49.2	67.4	40.0
11:50 PM - 11:55 PM	42.9	61.5	39.9
11:55 PM - 12:00 AM	41.6	47.3	38.6
12:00 AM - 12:05 AM	50.1	64.2	40.0
12:05 AM - 12:10 AM	42.9	51.1	39.9
12:10 AM - 12:15 AM	48.0	64.3	39.4
12:15 AM - 12:20 AM	52.0	64.3	39.5
12:20 AM - 12:25 AM	42.8	61.0	39.9

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551120-1

Sample No. 25114637-17
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	51.7	66.5	40.1
12:30 AM - 12:35 AM	54.3	65.6	39.2
12:35 AM - 12:40 AM	50.3	66.4	39.8
12:40 AM - 12:45 AM	43.2	54.0	40.8
12:45 AM - 12:50 AM	49.4	63.2	40.3
12:50 AM - 12:55 AM	54.3	70.3	39.1
12:55 AM - 01:00 AM	43.0	53.6	39.7
01:00 AM - 01:05 AM	42.4	47.8	40.7
01:05 AM - 01:10 AM	42.1	46.0	40.8
01:10 AM - 01:15 AM	41.8	48.2	40.1
01:15 AM - 01:20 AM	41.8	45.2	40.3
01:20 AM - 01:25 AM	42.7	53.2	39.3
01:25 AM - 01:30 AM	41.6	53.2	39.4
01:30 AM - 01:35 AM	46.9	62.0	39.4
01:35 AM - 01:40 AM	41.9	53.6	39.5
01:40 AM - 01:45 AM	42.9	53.4	40.0
01:45 AM - 01:50 AM	42.9	53.6	40.5
01:50 AM - 01:55 AM	41.7	47.2	39.9
01:55 AM - 02:00 AM	41.0	51.0	39.1
02:00 AM - 02:05 AM	41.7	46.6	40.1
02:05 AM - 02:10 AM	41.7	45.5	40.0
02:10 AM - 02:15 AM	43.4	50.8	41.0
02:15 AM - 02:20 AM	43.7	48.3	41.7
02:20 AM - 02:25 AM	42.6	46.2	40.9
02:25 AM - 02:30 AM	44.7	49.5	42.1
02:30 AM - 02:35 AM	41.4	46.5	39.7
02:35 AM - 02:40 AM	42.0	48.1	40.1
02:40 AM - 02:45 AM	42.2	48.5	40.4
02:45 AM - 02:50 AM	41.9	51.4	40.6
02:50 AM - 02:55 AM	44.2	57.9	40.4
02:55 AM - 03:00 AM	42.7	51.7	41.1
03:00 AM - 03:05 AM	41.2	44.7	39.9
03:05 AM - 03:10 AM	42.1	59.5	40.2
03:10 AM - 03:15 AM	42.3	54.6	39.3
03:15 AM - 03:20 AM	41.0	50.4	39.8
03:20 AM - 03:25 AM	41.1	45.4	39.7
03:25 AM - 03:30 AM	54.6	70.7	38.9
03:30 AM - 03:35 AM	50.3	70.6	39.7
03:35 AM - 03:40 AM	41.4	48.6	39.4
03:40 AM - 03:45 AM	43.3	50.7	39.9

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551120-1

Sample No. 25114637-17
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	42.6	45.7	40.8
03:50 AM - 03:55 AM	41.9	45.1	40.3
03:55 AM - 04:00 AM	42.1	45.5	40.3
04:00 AM - 04:05 AM	42.4	57.2	40.8
04:05 AM - 04:10 AM	42.6	59.9	40.2
04:10 AM - 04:15 AM	52.5	71.8	40.6
04:15 AM - 04:20 AM	54.2	72.0	40.4
04:20 AM - 04:25 AM	52.0	74.1	39.8
04:25 AM - 04:30 AM	52.9	72.5	40.2
04:30 AM - 04:35 AM	53.7	74.1	40.4
04:35 AM - 04:40 AM	57.9	72.3	40.0
04:40 AM - 04:45 AM	51.6	72.8	39.6
04:45 AM - 04:50 AM	56.3	72.6	40.7
04:50 AM - 04:55 AM	56.2	72.4	41.2
04:55 AM - 05:00 AM	58.0	71.2	41.3
05:00 AM - 05:05 AM	57.9	71.4	40.7
05:05 AM - 05:10 AM	57.2	72.2	40.7
05:10 AM - 05:15 AM	59.1	72.6	40.3
05:15 AM - 05:20 AM	57.0	73.4	41.4
05:20 AM - 05:25 AM	59.3	74.5	41.0
05:25 AM - 05:30 AM	59.5	74.4	41.7
05:30 AM - 05:35 AM	59.3	74.7	41.5
05:35 AM - 05:40 AM	59.4	75.6	42.5
05:40 AM - 05:45 AM	61.6	76.7	42.9
05:45 AM - 05:50 AM	60.3	72.4	46.4
05:50 AM - 05:55 AM	61.3	72.8	46.4
05:55 AM - 06:00 AM	60.2	72.4	44.5
06:00 AM - 07:00 AM	59.3	80.9	45.3
07:00 AM - 08:00 AM	56.3	84.0	44.0
08:00 AM - 09:00 AM	61.4	86.6	45.3
09:00 AM - 10:00 AM	54.6	75.2	44.2
10:00 AM - 11:00 AM	52.9	71.8	44.0

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551121-1

Sample No. 25114637-18
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.3	79.0	43.2
12:00 PM - 01:00 PM	50.6	68.8	42.5
01:00 PM - 02:00 PM	51.1	74.5	43.1
02:00 PM - 03:00 PM	55.0	77.7	43.4
03:00 PM - 04:00 PM	58.8	83.5	44.3
04:00 PM - 05:00 PM	52.2	78.6	41.2
05:00 PM - 06:00 PM	51.3	70.9	40.8
06:00 PM - 07:00 PM	52.5	74.4	43.7
07:00 PM - 08:00 PM	44.1	58.2	42.1
08:00 PM - 09:00 PM	44.8	58.9	42.9
09:00 PM - 10:00 PM	42.8	63.1	40.5
10:00 PM - 10:05 PM	40.4	51.7	38.6
10:05 PM - 10:10 PM	39.8	53.1	38.3
10:10 PM - 10:15 PM	40.9	59.2	37.7
10:15 PM - 10:20 PM	38.5	54.7	36.8
10:20 PM - 10:25 PM	38.5	45.6	36.6
10:25 PM - 10:30 PM	38.3	43.9	36.3
10:30 PM - 10:35 PM	37.9	43.0	36.4
10:35 PM - 10:40 PM	38.4	44.7	36.7
10:40 PM - 10:45 PM	37.9	42.8	36.3
10:45 PM - 10:50 PM	38.6	46.8	37.2
10:50 PM - 10:55 PM	40.9	59.7	37.8
10:55 PM - 11:00 PM	38.9	42.1	37.4
11:00 PM - 11:05 PM	49.0	66.8	36.9
11:05 PM - 11:10 PM	65.4	84.6	37.0
11:10 PM - 11:15 PM	41.2	62.0	36.9
11:15 PM - 11:20 PM	39.1	48.2	37.3
11:20 PM - 11:25 PM	39.6	43.0	38.5
11:25 PM - 11:30 PM	66.7	85.3	38.3
11:30 PM - 11:35 PM	40.0	53.4	38.3
11:35 PM - 11:40 PM	39.2	44.4	38.0
11:40 PM - 11:45 PM	39.2	44.7	38.0
11:45 PM - 11:50 PM	39.3	48.9	38.1
11:50 PM - 11:55 PM	38.7	42.3	37.4
11:55 PM - 12:00 AM	38.9	45.3	37.8
12:00 AM - 12:05 AM	39.1	43.2	37.6
12:05 AM - 12:10 AM	39.3	46.8	37.7
12:10 AM - 12:15 AM	40.0	49.1	38.0
12:15 AM - 12:20 AM	40.3	55.8	37.5
12:20 AM - 12:25 AM	38.9	47.9	36.9

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551121-1

Sample No. 25114637-18
Parameter Noise
Location บ้านผาเสดิจ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	39.5	56.8	37.1
12:30 AM - 12:35 AM	38.8	47.7	37.2
12:35 AM - 12:40 AM	39.0	53.9	36.7
12:40 AM - 12:45 AM	38.7	43.0	37.4
12:45 AM - 12:50 AM	39.4	52.9	37.6
12:50 AM - 12:55 AM	38.7	43.2	37.5
12:55 AM - 01:00 AM	46.5	69.0	37.2
01:00 AM - 01:05 AM	38.0	45.9	36.8
01:05 AM - 01:10 AM	37.9	42.2	36.7
01:10 AM - 01:15 AM	38.1	47.3	36.6
01:15 AM - 01:20 AM	37.8	47.5	36.2
01:20 AM - 01:25 AM	49.1	67.9	36.7
01:25 AM - 01:30 AM	48.9	68.7	37.2
01:30 AM - 01:35 AM	40.7	56.3	37.4
01:35 AM - 01:40 AM	47.6	66.1	38.6
01:40 AM - 01:45 AM	51.5	71.4	38.5
01:45 AM - 01:50 AM	56.2	78.9	38.1
01:50 AM - 01:55 AM	40.2	53.9	38.3
01:55 AM - 02:00 AM	43.2	65.5	39.4
02:00 AM - 02:05 AM	39.8	48.5	38.3
02:05 AM - 02:10 AM	39.7	49.9	37.8
02:10 AM - 02:15 AM	39.6	48.2	38.2
02:15 AM - 02:20 AM	38.9	45.9	37.3
02:20 AM - 02:25 AM	40.8	60.9	37.7
02:25 AM - 02:30 AM	39.2	43.1	38.3
02:30 AM - 02:35 AM	40.3	51.7	38.6
02:35 AM - 02:40 AM	40.4	46.9	38.9
02:40 AM - 02:45 AM	40.1	44.6	38.9
02:45 AM - 02:50 AM	39.7	44.7	38.7
02:50 AM - 02:55 AM	40.0	42.3	39.2
02:55 AM - 03:00 AM	40.1	44.1	39.2
03:00 AM - 03:05 AM	41.3	46.1	40.3
03:05 AM - 03:10 AM	39.6	45.7	38.3
03:10 AM - 03:15 AM	40.0	43.3	39.2
03:15 AM - 03:20 AM	40.0	44.4	38.9
03:20 AM - 03:25 AM	40.6	43.6	39.4
03:25 AM - 03:30 AM	40.3	44.3	39.3
03:30 AM - 03:35 AM	40.8	44.4	39.6
03:35 AM - 03:40 AM	39.9	42.5	39.0
03:40 AM - 03:45 AM	55.6	69.6	40.0

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551121-1

Sample No. 25114637-18
Parameter Noise
Location บ้านผาเสดิจ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	49.0	68.7	38.7
03:50 AM - 03:55 AM	43.1	61.4	40.0
03:55 AM - 04:00 AM	53.7	68.0	39.7
04:00 AM - 04:05 AM	42.9	59.3	40.0
04:05 AM - 04:10 AM	41.5	54.6	40.2
04:10 AM - 04:15 AM	42.7	56.5	41.0
04:15 AM - 04:20 AM	41.5	49.0	40.2
04:20 AM - 04:25 AM	54.7	69.6	40.4
04:25 AM - 04:30 AM	50.0	68.2	40.9
04:30 AM - 04:35 AM	50.6	65.1	40.3
04:35 AM - 04:40 AM	53.2	67.9	41.3
04:40 AM - 04:45 AM	56.8	73.3	41.8
04:45 AM - 04:50 AM	52.9	69.0	41.7
04:50 AM - 04:55 AM	58.3	70.1	41.9
04:55 AM - 05:00 AM	70.3	92.7	41.9
05:00 AM - 05:05 AM	55.8	70.2	42.0
05:05 AM - 05:10 AM	54.7	74.2	42.2
05:10 AM - 05:15 AM	55.9	72.6	42.3
05:15 AM - 05:20 AM	58.7	75.5	42.2
05:20 AM - 05:25 AM	56.6	74.1	41.9
05:25 AM - 05:30 AM	59.1	74.6	43.0
05:30 AM - 05:35 AM	58.6	71.7	43.5
05:35 AM - 05:40 AM	59.4	71.8	44.0
05:40 AM - 05:45 AM	61.4	80.3	46.0
05:45 AM - 05:50 AM	62.0	74.3	50.0
05:50 AM - 05:55 AM	61.0	72.7	45.8
05:55 AM - 06:00 AM	59.8	76.9	45.6
06:00 AM - 07:00 AM	58.0	83.2	45.5
07:00 AM - 08:00 AM	58.6	85.6	47.1
08:00 AM - 09:00 AM	60.8	84.3	47.7
09:00 AM - 10:00 AM	55.0	75.6	45.8
10:00 AM - 11:00 AM	53.1	71.1	44.6

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551122-1

Sample No. 25114637-19
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.3	76.1	44.2
12:00 PM - 01:00 PM	52.9	81.6	42.8
01:00 PM - 02:00 PM	51.2	74.0	42.9
02:00 PM - 03:00 PM	52.7	72.2	41.7
03:00 PM - 04:00 PM	55.7	76.9	40.9
04:00 PM - 05:00 PM	56.5	82.0	42.0
05:00 PM - 06:00 PM	52.3	72.6	40.9
06:00 PM - 07:00 PM	54.3	75.5	43.0
07:00 PM - 08:00 PM	49.3	64.5	42.3
08:00 PM - 09:00 PM	49.3	66.7	42.3
09:00 PM - 10:00 PM	46.1	65.3	40.4
10:00 PM - 10:05 PM	42.8	58.6	40.0
10:05 PM - 10:10 PM	48.1	62.6	40.8
10:10 PM - 10:15 PM	40.5	43.6	39.0
10:15 PM - 10:20 PM	40.0	43.5	39.0
10:20 PM - 10:25 PM	41.1	46.7	39.7
10:25 PM - 10:30 PM	40.6	45.0	39.6
10:30 PM - 10:35 PM	40.8	44.2	39.7
10:35 PM - 10:40 PM	49.9	63.9	40.2
10:40 PM - 10:45 PM	40.7	46.6	39.1
10:45 PM - 10:50 PM	40.3	48.2	39.0
10:50 PM - 10:55 PM	40.5	43.8	39.5
10:55 PM - 11:00 PM	40.0	49.8	38.7
11:00 PM - 11:05 PM	40.3	43.6	39.1
11:05 PM - 11:10 PM	39.9	51.1	38.9
11:10 PM - 11:15 PM	41.0	51.4	39.1
11:15 PM - 11:20 PM	40.4	45.5	39.1
11:20 PM - 11:25 PM	41.2	48.0	39.4
11:25 PM - 11:30 PM	49.4	62.3	40.1
11:30 PM - 11:35 PM	41.7	56.9	39.6
11:35 PM - 11:40 PM	41.6	45.6	40.5
11:40 PM - 11:45 PM	41.1	45.2	39.5
11:45 PM - 11:50 PM	40.5	46.7	39.1
11:50 PM - 11:55 PM	41.0	45.8	39.8
11:55 PM - 12:00 AM	41.9	48.5	40.0
12:00 AM - 12:05 AM	41.6	49.2	39.9
12:05 AM - 12:10 AM	40.2	44.2	38.8
12:10 AM - 12:15 AM	40.5	46.5	39.2
12:15 AM - 12:20 AM	41.9	59.1	40.0
12:20 AM - 12:25 AM	54.7	69.1	40.9

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551122-1

Sample No. 25114637-19
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	58.9	83.5	41.2
12:30 AM - 12:35 AM	42.7	62.0	40.1
12:35 AM - 12:40 AM	48.6	71.7	39.8
12:40 AM - 12:45 AM	49.4	73.4	40.4
12:45 AM - 12:50 AM	42.6	51.4	40.5
12:50 AM - 12:55 AM	42.2	48.2	40.8
12:55 AM - 01:00 AM	41.0	57.8	39.6
01:00 AM - 01:05 AM	41.4	48.0	40.3
01:05 AM - 01:10 AM	41.8	58.2	40.0
01:10 AM - 01:15 AM	44.2	55.2	40.0
01:15 AM - 01:20 AM	41.5	48.6	39.8
01:20 AM - 01:25 AM	42.9	56.4	40.1
01:25 AM - 01:30 AM	43.3	47.0	41.9
01:30 AM - 01:35 AM	42.3	47.9	39.9
01:35 AM - 01:40 AM	43.5	49.3	41.3
01:40 AM - 01:45 AM	43.0	48.1	41.0
01:45 AM - 01:50 AM	43.5	52.8	41.0
01:50 AM - 01:55 AM	68.1	98.3	40.0
01:55 AM - 02:00 AM	70.6	95.9	42.0
02:00 AM - 02:05 AM	45.5	58.0	41.6
02:05 AM - 02:10 AM	44.5	56.2	41.0
02:10 AM - 02:15 AM	43.3	47.1	41.8
02:15 AM - 02:20 AM	45.1	55.7	42.7
02:20 AM - 02:25 AM	44.5	55.6	42.0
02:25 AM - 02:30 AM	43.5	51.2	41.1
02:30 AM - 02:35 AM	42.5	45.9	41.2
02:35 AM - 02:40 AM	43.7	51.6	41.7
02:40 AM - 02:45 AM	43.3	48.8	41.6
02:45 AM - 02:50 AM	53.0	68.1	39.5
02:50 AM - 02:55 AM	40.7	44.9	39.4
02:55 AM - 03:00 AM	41.0	49.7	39.7
03:00 AM - 03:05 AM	42.4	52.2	40.2
03:05 AM - 03:10 AM	42.9	55.0	40.3
03:10 AM - 03:15 AM	42.2	51.9	40.8
03:15 AM - 03:20 AM	42.4	52.5	40.9
03:20 AM - 03:25 AM	41.5	50.2	40.3
03:25 AM - 03:30 AM	42.7	50.5	41.6
03:30 AM - 03:35 AM	43.2	49.3	41.2
03:35 AM - 03:40 AM	42.5	54.6	40.1
03:40 AM - 03:45 AM	43.3	52.5	41.7

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551122-1

Sample No. 25114637-19
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	45.6	63.2	41.8
03:50 AM - 03:55 AM	51.5	70.6	41.8
03:55 AM - 04:00 AM	52.2	67.8	42.0
04:00 AM - 04:05 AM	50.6	68.4	41.5
04:05 AM - 04:10 AM	42.7	49.6	40.2
04:10 AM - 04:15 AM	52.7	66.5	40.0
04:15 AM - 04:20 AM	48.3	64.5	42.1
04:20 AM - 04:25 AM	44.7	61.2	40.8
04:25 AM - 04:30 AM	55.1	70.5	41.1
04:30 AM - 04:35 AM	48.0	65.1	41.4
04:35 AM - 04:40 AM	51.5	67.2	41.7
04:40 AM - 04:45 AM	54.5	70.7	42.0
04:45 AM - 04:50 AM	50.9	67.9	40.9
04:50 AM - 04:55 AM	57.8	72.4	41.5
04:55 AM - 05:00 AM	56.2	72.1	40.7
05:00 AM - 05:05 AM	57.0	72.7	40.4
05:05 AM - 05:10 AM	58.4	74.9	41.0
05:10 AM - 05:15 AM	55.0	73.4	41.0
05:15 AM - 05:20 AM	56.9	73.5	41.0
05:20 AM - 05:25 AM	57.9	73.8	41.2
05:25 AM - 05:30 AM	58.4	74.4	41.6
05:30 AM - 05:35 AM	56.8	73.4	42.3
05:35 AM - 05:40 AM	60.4	74.1	42.5
05:40 AM - 05:45 AM	60.8	72.4	43.1
05:45 AM - 05:50 AM	63.0	73.2	53.4
05:50 AM - 05:55 AM	61.8	72.3	45.5
05:55 AM - 06:00 AM	57.7	70.7	45.1
06:00 AM - 07:00 AM	58.4	85.0	45.1
07:00 AM - 08:00 AM	58.5	85.2	45.9
08:00 AM - 09:00 AM	57.4	83.5	45.5
09:00 AM - 10:00 AM	57.8	84.2	45.4
10:00 AM - 11:00 AM	57.0	85.8	43.9

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551123-1

Sample No. 25114637-20
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.7	74.7	43.4
12:00 PM - 01:00 PM	52.7	73.1	42.3
01:00 PM - 02:00 PM	53.6	77.0	42.3
02:00 PM - 03:00 PM	51.6	77.7	40.8
03:00 PM - 04:00 PM	56.5	80.6	40.0
04:00 PM - 05:00 PM	51.3	73.3	39.7
05:00 PM - 06:00 PM	51.8	70.8	37.9
06:00 PM - 07:00 PM	53.1	78.8	41.7
07:00 PM - 08:00 PM	46.2	64.3	42.2
08:00 PM - 09:00 PM	45.8	64.6	41.4
09:00 PM - 10:00 PM	42.2	63.3	40.3
10:00 PM - 10:05 PM	41.0	50.3	39.6
10:05 PM - 10:10 PM	40.6	54.2	39.1
10:10 PM - 10:15 PM	41.4	51.1	39.0
10:15 PM - 10:20 PM	45.4	60.1	39.5
10:20 PM - 10:25 PM	42.4	46.2	40.7
10:25 PM - 10:30 PM	42.1	45.7	40.2
10:30 PM - 10:35 PM	41.9	45.5	40.1
10:35 PM - 10:40 PM	41.9	45.7	39.6
10:40 PM - 10:45 PM	43.0	58.4	39.4
10:45 PM - 10:50 PM	56.0	83.1	39.7
10:50 PM - 10:55 PM	41.9	49.3	40.2
10:55 PM - 11:00 PM	41.5	44.7	39.7
11:00 PM - 11:05 PM	45.1	60.5	37.5
11:05 PM - 11:10 PM	57.2	86.6	36.9
11:10 PM - 11:15 PM	41.9	57.1	37.7
11:15 PM - 11:20 PM	41.3	50.8	39.0
11:20 PM - 11:25 PM	41.9	47.1	39.5
11:25 PM - 11:30 PM	41.8	46.4	39.6
11:30 PM - 11:35 PM	41.0	48.9	39.1
11:35 PM - 11:40 PM	40.3	46.2	38.2
11:40 PM - 11:45 PM	40.5	44.9	39.2
11:45 PM - 11:50 PM	39.6	52.4	38.8
11:50 PM - 11:55 PM	39.5	42.5	38.5
11:55 PM - 12:00 AM	41.1	51.6	38.7
12:00 AM - 12:05 AM	41.1	47.5	39.3
12:05 AM - 12:10 AM	39.7	45.9	38.0
12:10 AM - 12:15 AM	39.2	42.8	38.2
12:15 AM - 12:20 AM	38.9	47.2	37.9
12:20 AM - 12:25 AM	38.9	47.3	37.9

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551123-1

Sample No. 25114637-20
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	38.3	46.5	37.3
12:30 AM - 12:35 AM	38.4	45.1	37.4
12:35 AM - 12:40 AM	39.5	44.9	38.4
12:40 AM - 12:45 AM	39.2	49.1	38.2
12:45 AM - 12:50 AM	39.6	43.0	38.3
12:50 AM - 12:55 AM	38.8	55.5	37.5
12:55 AM - 01:00 AM	39.2	43.9	38.0
01:00 AM - 01:05 AM	38.7	49.4	37.6
01:05 AM - 01:10 AM	38.7	49.4	37.4
01:10 AM - 01:15 AM	38.5	42.9	37.4
01:15 AM - 01:20 AM	38.5	41.5	37.5
01:20 AM - 01:25 AM	38.1	41.9	36.9
01:25 AM - 01:30 AM	38.6	42.0	37.4
01:30 AM - 01:35 AM	38.3	43.3	36.5
01:35 AM - 01:40 AM	38.2	45.6	37.3
01:40 AM - 01:45 AM	38.5	41.6	37.4
01:45 AM - 01:50 AM	38.0	40.7	37.2
01:50 AM - 01:55 AM	37.6	52.1	36.6
01:55 AM - 02:00 AM	38.1	40.8	37.1
02:00 AM - 02:05 AM	39.0	48.6	37.4
02:05 AM - 02:10 AM	38.5	46.2	37.5
02:10 AM - 02:15 AM	38.9	42.2	37.8
02:15 AM - 02:20 AM	39.3	43.9	37.9
02:20 AM - 02:25 AM	40.4	43.8	38.9
02:25 AM - 02:30 AM	39.3	45.7	38.2
02:30 AM - 02:35 AM	39.6	42.5	38.6
02:35 AM - 02:40 AM	39.3	44.5	38.5
02:40 AM - 02:45 AM	39.7	43.2	38.5
02:45 AM - 02:50 AM	39.4	42.9	37.7
02:50 AM - 02:55 AM	39.1	42.7	37.5
02:55 AM - 03:00 AM	38.6	44.5	37.0
03:00 AM - 03:05 AM	38.1	41.4	37.0
03:05 AM - 03:10 AM	40.9	60.2	37.9
03:10 AM - 03:15 AM	40.0	50.6	38.2
03:15 AM - 03:20 AM	41.9	64.3	38.0
03:20 AM - 03:25 AM	53.7	73.6	37.9
03:25 AM - 03:30 AM	45.9	65.2	37.0
03:30 AM - 03:35 AM	39.7	47.7	38.4
03:35 AM - 03:40 AM	40.1	43.7	38.7
03:40 AM - 03:45 AM	50.3	66.4	38.3

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Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551123-1

Sample No. 25114637-20
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	39.1	42.8	38.2
03:50 AM - 03:55 AM	40.3	50.7	39.3
03:55 AM - 04:00 AM	40.5	44.6	39.0
04:00 AM - 04:05 AM	40.8	47.6	39.3
04:05 AM - 04:10 AM	50.6	64.1	38.6
04:10 AM - 04:15 AM	44.7	65.0	39.7
04:15 AM - 04:20 AM	52.6	71.0	39.9
04:20 AM - 04:25 AM	42.0	50.3	40.1
04:25 AM - 04:30 AM	51.1	66.5	40.1
04:30 AM - 04:35 AM	46.1	64.1	40.1
04:35 AM - 04:40 AM	54.0	70.2	40.2
04:40 AM - 04:45 AM	50.0	69.8	40.3
04:45 AM - 04:50 AM	53.1	67.0	40.1
04:50 AM - 04:55 AM	52.2	73.5	39.9
04:55 AM - 05:00 AM	57.9	71.2	40.8
05:00 AM - 05:05 AM	56.9	72.4	39.9
05:05 AM - 05:10 AM	54.7	70.8	41.0
05:10 AM - 05:15 AM	56.7	71.7	41.2
05:15 AM - 05:20 AM	57.5	73.9	41.4
05:20 AM - 05:25 AM	56.3	75.7	41.2
05:25 AM - 05:30 AM	60.3	74.2	41.3
05:30 AM - 05:35 AM	60.8	75.0	41.5
05:35 AM - 05:40 AM	60.6	74.2	41.6
05:40 AM - 05:45 AM	61.2	71.9	43.2
05:45 AM - 05:50 AM	62.4	71.8	48.9
05:50 AM - 05:55 AM	61.7	76.2	46.4
05:55 AM - 06:00 AM	58.3	72.8	44.6
06:00 AM - 07:00 AM	59.6	86.2	45.3
07:00 AM - 08:00 AM	56.3	83.0	44.4
08:00 AM - 09:00 AM	58.2	84.3	45.5
09:00 AM - 10:00 AM	54.0	74.3	46.3
10:00 AM - 11:00 AM	55.6	77.6	45.3

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551124-1

Sample No. 25114637-21
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.8	70.7	43.6
12:00 PM - 01:00 PM	52.8	73.7	44.0
01:00 PM - 02:00 PM	51.8	74.4	43.1
02:00 PM - 03:00 PM	50.9	70.7	41.3
03:00 PM - 04:00 PM	51.1	68.7	41.5
04:00 PM - 05:00 PM	51.0	69.7	39.6
05:00 PM - 06:00 PM	54.1	80.4	41.2
06:00 PM - 07:00 PM	53.8	77.6	47.3
07:00 PM - 08:00 PM	44.5	71.9	41.8
08:00 PM - 09:00 PM	47.0	63.3	42.0
09:00 PM - 10:00 PM	46.1	63.6	41.6
10:00 PM - 10:05 PM	43.8	48.6	41.8
10:05 PM - 10:10 PM	43.6	49.2	41.8
10:10 PM - 10:15 PM	49.8	62.4	41.6
10:15 PM - 10:20 PM	43.3	52.9	41.2
10:20 PM - 10:25 PM	43.0	49.2	40.9
10:25 PM - 10:30 PM	43.9	54.5	40.5
10:30 PM - 10:35 PM	44.4	54.6	40.1
10:35 PM - 10:40 PM	41.6	45.6	39.6
10:40 PM - 10:45 PM	41.4	48.2	38.8
10:45 PM - 10:50 PM	47.2	61.3	39.2
10:50 PM - 10:55 PM	39.7	44.3	38.7
10:55 PM - 11:00 PM	39.7	42.8	38.8
11:00 PM - 11:05 PM	39.8	46.9	38.7
11:05 PM - 11:10 PM	41.0	54.1	38.8
11:10 PM - 11:15 PM	40.0	44.5	38.6
11:15 PM - 11:20 PM	41.1	47.4	39.8
11:20 PM - 11:25 PM	40.5	47.9	38.9
11:25 PM - 11:30 PM	39.2	43.6	38.1
11:30 PM - 11:35 PM	39.8	49.3	38.0
11:35 PM - 11:40 PM	38.7	44.8	37.5
11:40 PM - 11:45 PM	40.5	54.3	38.0
11:45 PM - 11:50 PM	39.2	49.2	37.9
11:50 PM - 11:55 PM	40.1	51.9	37.7
11:55 PM - 12:00 AM	39.8	46.8	38.8
12:00 AM - 12:05 AM	39.8	53.3	38.3
12:05 AM - 12:10 AM	47.3	64.3	38.5
12:10 AM - 12:15 AM	46.7	60.9	38.2
12:15 AM - 12:20 AM	48.0	58.6	38.9
12:20 AM - 12:25 AM	43.3	60.2	38.5

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551124-1

Sample No. 25114637-21
Parameter Noise
Location บ้านผาเสด็จ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	42.9	61.2	38.0
12:30 AM - 12:35 AM	41.8	55.7	38.2
12:35 AM - 12:40 AM	40.5	47.5	37.9
12:40 AM - 12:45 AM	40.6	47.6	37.9
12:45 AM - 12:50 AM	41.4	55.2	37.4
12:50 AM - 12:55 AM	38.6	47.7	37.2
12:55 AM - 01:00 AM	38.4	42.0	37.2
01:00 AM - 01:05 AM	38.1	46.1	36.9
01:05 AM - 01:10 AM	38.5	49.0	37.1
01:10 AM - 01:15 AM	38.8	45.3	37.5
01:15 AM - 01:20 AM	38.5	45.1	37.5
01:20 AM - 01:25 AM	39.2	48.0	37.0
01:25 AM - 01:30 AM	40.7	49.1	37.7
01:30 AM - 01:35 AM	38.8	49.4	37.1
01:35 AM - 01:40 AM	38.5	42.1	37.3
01:40 AM - 01:45 AM	38.3	45.0	37.0
01:45 AM - 01:50 AM	38.3	46.9	36.9
01:50 AM - 01:55 AM	38.5	43.6	36.9
01:55 AM - 02:00 AM	50.5	68.5	36.8
02:00 AM - 02:05 AM	37.2	44.6	35.8
02:05 AM - 02:10 AM	37.7	44.5	36.3
02:10 AM - 02:15 AM	39.2	47.1	37.3
02:15 AM - 02:20 AM	57.5	75.0	38.8
02:20 AM - 02:25 AM	39.9	49.1	38.6
02:25 AM - 02:30 AM	39.2	46.4	38.1
02:30 AM - 02:35 AM	39.8	53.8	37.5
02:35 AM - 02:40 AM	39.6	47.5	37.7
02:40 AM - 02:45 AM	41.9	51.1	39.8
02:45 AM - 02:50 AM	42.1	48.8	40.3
02:50 AM - 02:55 AM	39.3	42.9	37.7
02:55 AM - 03:00 AM	41.8	50.2	39.6
03:00 AM - 03:05 AM	43.4	62.8	39.2
03:05 AM - 03:10 AM	40.7	53.4	39.3
03:10 AM - 03:15 AM	40.0	44.3	38.4
03:15 AM - 03:20 AM	38.7	43.8	37.4
03:20 AM - 03:25 AM	39.0	45.8	37.5
03:25 AM - 03:30 AM	39.1	42.5	38.1
03:30 AM - 03:35 AM	39.3	48.4	38.2
03:35 AM - 03:40 AM	56.3	70.5	38.6
03:40 AM - 03:45 AM	40.8	57.3	38.1

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551124-1

Sample No. 25114637-21
Parameter Noise
Location บ้านผาเสดิจ (จุดอ้างอิง) (GPS 47P 0726666, 1619811) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00296514

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	40.4	44.7	39.4
03:50 AM - 03:55 AM	40.3	43.9	38.5
03:55 AM - 04:00 AM	39.7	43.3	38.2
04:00 AM - 04:05 AM	54.2	73.3	38.4
04:05 AM - 04:10 AM	52.3	68.5	37.0
04:10 AM - 04:15 AM	41.8	60.4	36.8
04:15 AM - 04:20 AM	53.7	67.8	37.2
04:20 AM - 04:25 AM	53.3	68.1	37.2
04:25 AM - 04:30 AM	51.8	67.6	38.6
04:30 AM - 04:35 AM	56.4	70.7	37.6
04:35 AM - 04:40 AM	53.3	68.5	37.8
04:40 AM - 04:45 AM	46.5	64.2	38.0
04:45 AM - 04:50 AM	57.1	71.0	38.1
04:50 AM - 04:55 AM	54.8	70.0	37.5
04:55 AM - 05:00 AM	56.5	72.6	38.5
05:00 AM - 05:05 AM	56.7	73.7	39.0
05:05 AM - 05:10 AM	57.3	72.0	39.6
05:10 AM - 05:15 AM	56.5	75.4	40.2
05:15 AM - 05:20 AM	55.3	68.4	40.8
05:20 AM - 05:25 AM	58.3	73.8	40.9
05:25 AM - 05:30 AM	59.0	76.0	42.2
05:30 AM - 05:35 AM	59.3	74.9	43.1
05:35 AM - 05:40 AM	61.3	73.8	43.7
05:40 AM - 05:45 AM	62.1	72.9	44.3
05:45 AM - 05:50 AM	61.0	72.8	50.5
05:50 AM - 05:55 AM	59.6	71.6	45.6
05:55 AM - 06:00 AM	57.6	71.1	44.6
06:00 AM - 07:00 AM	57.8	80.5	45.7
07:00 AM - 08:00 AM	59.0	88.2	46.1
08:00 AM - 09:00 AM	61.9	92.4	46.8
09:00 AM - 10:00 AM	56.7	75.0	45.6
10:00 AM - 11:00 AM	56.1	75.9	45.9

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551125-1

Sample No. 25114637-22
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	62.7	82.6	60.4
12:00 PM - 01:00 PM	60.7	77.7	58.8
01:00 PM - 02:00 PM	61.2	74.7	59.1
02:00 PM - 03:00 PM	62.1	80.9	60.4
03:00 PM - 04:00 PM	62.3	79.3	59.8
04:00 PM - 05:00 PM	61.3	77.0	59.2
05:00 PM - 06:00 PM	61.6	81.2	60.0
06:00 PM - 07:00 PM	63.0	83.0	61.0
07:00 PM - 08:00 PM	61.3	84.9	59.9
08:00 PM - 09:00 PM	62.1	85.2	60.0
09:00 PM - 10:00 PM	61.6	76.1	60.0
10:00 PM - 10:05 PM	60.3	69.8	58.7
10:05 PM - 10:10 PM	62.1	75.7	59.5
10:10 PM - 10:15 PM	60.9	68.7	59.7
10:15 PM - 10:20 PM	62.0	72.7	59.7
10:20 PM - 10:25 PM	62.3	73.0	60.4
10:25 PM - 10:30 PM	61.5	75.7	60.0
10:30 PM - 10:35 PM	62.7	78.3	60.0
10:35 PM - 10:40 PM	60.4	71.9	59.2
10:40 PM - 10:45 PM	61.0	71.0	59.5
10:45 PM - 10:50 PM	61.4	76.8	59.9
10:50 PM - 10:55 PM	60.0	71.2	58.8
10:55 PM - 11:00 PM	60.1	67.5	58.2
11:00 PM - 11:05 PM	59.5	68.4	57.9
11:05 PM - 11:10 PM	59.2	69.2	57.1
11:10 PM - 11:15 PM	60.0	75.2	57.0
11:15 PM - 11:20 PM	60.0	74.1	56.7
11:20 PM - 11:25 PM	58.7	65.4	57.4
11:25 PM - 11:30 PM	58.5	66.2	56.9
11:30 PM - 11:35 PM	58.7	65.2	56.9
11:35 PM - 11:40 PM	59.2	68.9	56.8
11:40 PM - 11:45 PM	58.7	65.1	57.0
11:45 PM - 11:50 PM	60.2	75.9	57.8
11:50 PM - 11:55 PM	59.9	75.0	57.2
11:55 PM - 12:00 AM	59.2	65.0	57.6
12:00 AM - 12:05 AM	58.4	62.4	57.2
12:05 AM - 12:10 AM	58.8	67.0	57.3
12:10 AM - 12:15 AM	59.8	62.8	58.7
12:15 AM - 12:20 AM	59.5	62.3	58.3
12:20 AM - 12:25 AM	60.9	71.6	58.0

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551125-1

Sample No. 25114637-22
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	61.4	73.6	58.0
12:30 AM - 12:35 AM	58.4	70.4	56.5
12:35 AM - 12:40 AM	58.3	71.5	56.3
12:40 AM - 12:45 AM	58.9	76.1	56.2
12:45 AM - 12:50 AM	60.6	73.8	57.5
12:50 AM - 12:55 AM	61.0	71.4	58.7
12:55 AM - 01:00 AM	61.8	79.6	58.8
01:00 AM - 01:05 AM	59.8	73.4	58.6
01:05 AM - 01:10 AM	61.5	72.8	59.4
01:10 AM - 01:15 AM	61.3	77.3	59.2
01:15 AM - 01:20 AM	60.9	72.5	58.9
01:20 AM - 01:25 AM	61.3	74.0	58.8
01:25 AM - 01:30 AM	60.9	72.3	59.2
01:30 AM - 01:35 AM	60.4	69.3	58.9
01:35 AM - 01:40 AM	61.1	72.3	58.8
01:40 AM - 01:45 AM	60.3	74.2	58.6
01:45 AM - 01:50 AM	76.9	107.8	58.3
01:50 AM - 01:55 AM	61.5	74.0	59.5
01:55 AM - 02:00 AM	61.6	75.0	59.0
02:00 AM - 02:05 AM	61.6	76.6	59.6
02:05 AM - 02:10 AM	59.8	67.6	58.6
02:10 AM - 02:15 AM	60.5	77.8	58.9
02:15 AM - 02:20 AM	61.1	70.9	59.0
02:20 AM - 02:25 AM	60.7	73.4	58.6
02:25 AM - 02:30 AM	60.7	66.9	59.4
02:30 AM - 02:35 AM	61.3	74.0	59.8
02:35 AM - 02:40 AM	59.9	66.0	58.8
02:40 AM - 02:45 AM	60.9	73.4	58.6
02:45 AM - 02:50 AM	60.4	71.6	58.4
02:50 AM - 02:55 AM	59.5	69.0	58.5
02:55 AM - 03:00 AM	61.4	75.5	58.8
03:00 AM - 03:05 AM	61.5	75.2	58.6
03:05 AM - 03:10 AM	61.0	73.4	58.5
03:10 AM - 03:15 AM	60.9	74.5	58.9
03:15 AM - 03:20 AM	61.9	81.8	58.4
03:20 AM - 03:25 AM	59.8	72.7	58.1
03:25 AM - 03:30 AM	60.0	66.9	58.8
03:30 AM - 03:35 AM	59.1	64.9	57.9
03:35 AM - 03:40 AM	59.6	68.7	57.9
03:40 AM - 03:45 AM	59.0	61.6	57.8

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : Saraburi Factory Plant

Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551125-1

Sample No. 25114637-22
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 02 - 03, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	59.3	63.1	57.9
03:50 AM - 03:55 AM	60.1	75.7	58.1
03:55 AM - 04:00 AM	60.3	76.5	58.2
04:00 AM - 04:05 AM	59.5	62.0	58.4
04:05 AM - 04:10 AM	60.2	76.5	58.2
04:10 AM - 04:15 AM	59.7	77.3	57.9
04:15 AM - 04:20 AM	60.4	77.1	58.1
04:20 AM - 04:25 AM	59.6	71.7	58.1
04:25 AM - 04:30 AM	59.4	63.1	58.2
04:30 AM - 04:35 AM	60.8	77.4	58.4
04:35 AM - 04:40 AM	61.3	78.0	57.7
04:40 AM - 04:45 AM	60.5	72.4	59.5
04:45 AM - 04:50 AM	61.8	78.2	59.3
04:50 AM - 04:55 AM	61.3	76.4	58.1
04:55 AM - 05:00 AM	60.6	77.7	58.1
05:00 AM - 05:05 AM	62.5	83.3	58.8
05:05 AM - 05:10 AM	62.0	78.3	58.6
05:10 AM - 05:15 AM	60.8	71.2	59.5
05:15 AM - 05:20 AM	63.0	77.3	60.0
05:20 AM - 05:25 AM	63.4	80.0	59.5
05:25 AM - 05:30 AM	60.8	74.7	58.3
05:30 AM - 05:35 AM	59.2	65.6	58.0
05:35 AM - 05:40 AM	60.3	73.7	57.9
05:40 AM - 05:45 AM	60.4	76.2	57.7
05:45 AM - 05:50 AM	60.5	76.1	58.4
05:50 AM - 05:55 AM	62.2	77.0	59.2
05:55 AM - 06:00 AM	62.4	71.1	61.1
06:00 AM - 07:00 AM	61.3	77.9	59.1
07:00 AM - 08:00 AM	62.0	79.3	60.3
08:00 AM - 09:00 AM	60.1	76.1	58.2
09:00 AM - 10:00 AM	62.0	77.4	59.9
10:00 AM - 11:00 AM	61.0	73.3	59.6

Reference Method :

1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551126-1

Sample No. 25114637-23
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.9	78.0	59.5
12:00 PM - 01:00 PM	61.9	88.1	59.7
01:00 PM - 02:00 PM	62.6	80.9	61.0
02:00 PM - 03:00 PM	61.5	79.9	60.0
03:00 PM - 04:00 PM	61.4	80.6	59.7
04:00 PM - 05:00 PM	61.6	79.8	59.5
05:00 PM - 06:00 PM	62.3	89.3	59.7
06:00 PM - 07:00 PM	65.0	86.4	61.0
07:00 PM - 08:00 PM	62.1	84.5	59.3
08:00 PM - 09:00 PM	61.3	80.0	59.1
09:00 PM - 10:00 PM	62.7	85.1	59.6
10:00 PM - 10:05 PM	60.6	72.4	59.1
10:05 PM - 10:10 PM	62.6	80.5	59.7
10:10 PM - 10:15 PM	63.5	80.9	59.5
10:15 PM - 10:20 PM	61.0	73.4	59.4
10:20 PM - 10:25 PM	60.9	73.3	59.3
10:25 PM - 10:30 PM	60.1	62.8	58.9
10:30 PM - 10:35 PM	59.9	63.2	58.7
10:35 PM - 10:40 PM	60.3	67.6	59.1
10:40 PM - 10:45 PM	61.4	72.6	59.0
10:45 PM - 10:50 PM	61.0	75.0	58.5
10:50 PM - 10:55 PM	59.5	62.7	58.5
10:55 PM - 11:00 PM	60.4	75.3	58.8
11:00 PM - 11:05 PM	60.4	80.9	58.2
11:05 PM - 11:10 PM	59.6	68.9	58.0
11:10 PM - 11:15 PM	59.8	66.4	58.4
11:15 PM - 11:20 PM	59.6	69.5	58.6
11:20 PM - 11:25 PM	59.5	64.1	58.3
11:25 PM - 11:30 PM	59.1	63.7	57.5
11:30 PM - 11:35 PM	59.5	64.3	58.3
11:35 PM - 11:40 PM	58.9	62.0	57.6
11:40 PM - 11:45 PM	58.8	66.9	57.2
11:45 PM - 11:50 PM	59.2	63.9	57.3
11:50 PM - 11:55 PM	58.1	64.1	56.5
11:55 PM - 12:00 AM	58.5	62.6	56.7
12:00 AM - 12:05 AM	58.6	63.9	57.2
12:05 AM - 12:10 AM	59.6	69.8	57.4
12:10 AM - 12:15 AM	59.3	66.4	57.6
12:15 AM - 12:20 AM	61.3	79.8	58.1
12:20 AM - 12:25 AM	63.1	80.7	58.3

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551126-1

Sample No. 25114637-23
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	59.9	65.3	58.3
12:30 AM - 12:35 AM	58.3	63.2	56.4
12:35 AM - 12:40 AM	58.2	62.4	56.4
12:40 AM - 12:45 AM	61.1	82.0	56.5
12:45 AM - 12:50 AM	61.7	80.2	57.6
12:50 AM - 12:55 AM	64.5	81.8	59.1
12:55 AM - 01:00 AM	63.2	82.7	59.0
01:00 AM - 01:05 AM	59.4	69.5	58.1
01:05 AM - 01:10 AM	62.3	82.2	58.2
01:10 AM - 01:15 AM	60.2	68.2	58.7
01:15 AM - 01:20 AM	65.4	82.2	59.1
01:20 AM - 01:25 AM	60.0	74.7	58.3
01:25 AM - 01:30 AM	60.4	68.8	58.8
01:30 AM - 01:35 AM	62.5	83.1	58.4
01:35 AM - 01:40 AM	61.9	79.1	59.1
01:40 AM - 01:45 AM	61.8	82.6	59.7
01:45 AM - 01:50 AM	63.9	84.9	58.9
01:50 AM - 01:55 AM	61.4	81.9	58.4
01:55 AM - 02:00 AM	61.1	82.7	58.6
02:00 AM - 02:05 AM	60.4	70.8	58.0
02:05 AM - 02:10 AM	63.4	82.9	58.1
02:10 AM - 02:15 AM	61.6	83.1	58.1
02:15 AM - 02:20 AM	59.5	66.8	58.2
02:20 AM - 02:25 AM	63.6	83.1	58.3
02:25 AM - 02:30 AM	62.6	81.1	59.3
02:30 AM - 02:35 AM	64.8	82.2	62.5
02:35 AM - 02:40 AM	61.3	80.2	58.1
02:40 AM - 02:45 AM	62.5	81.2	57.9
02:45 AM - 02:50 AM	58.9	67.5	57.8
02:50 AM - 02:55 AM	61.9	82.1	58.0
02:55 AM - 03:00 AM	62.5	82.7	58.2
03:00 AM - 03:05 AM	62.3	81.3	58.4
03:05 AM - 03:10 AM	59.9	65.1	58.2
03:10 AM - 03:15 AM	62.7	83.3	58.4
03:15 AM - 03:20 AM	61.9	80.9	57.9
03:20 AM - 03:25 AM	61.4	81.8	57.8
03:25 AM - 03:30 AM	61.9	82.1	58.4
03:30 AM - 03:35 AM	59.7	72.2	58.0
03:35 AM - 03:40 AM	58.7	71.6	57.5
03:40 AM - 03:45 AM	59.2	64.7	58.1

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551126-1

Sample No. 25114637-23
Parameter Noise
Location รินริ่วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 03 - 04, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	58.7	61.6	57.6
03:50 AM - 03:55 AM	59.3	65.6	57.6
03:55 AM - 04:00 AM	58.8	62.6	57.5
04:00 AM - 04:05 AM	59.7	68.0	58.0
04:05 AM - 04:10 AM	58.9	66.0	57.1
04:10 AM - 04:15 AM	58.7	68.3	57.4
04:15 AM - 04:20 AM	59.7	67.2	58.3
04:20 AM - 04:25 AM	60.4	71.4	58.1
04:25 AM - 04:30 AM	59.5	64.3	57.9
04:30 AM - 04:35 AM	62.8	67.6	59.0
04:35 AM - 04:40 AM	64.7	82.3	62.7
04:40 AM - 04:45 AM	63.5	82.1	62.5
04:45 AM - 04:50 AM	61.4	74.1	59.1
04:50 AM - 04:55 AM	59.7	73.3	58.4
04:55 AM - 05:00 AM	60.4	72.3	57.7
05:00 AM - 05:05 AM	59.9	71.7	58.6
05:05 AM - 05:10 AM	60.3	68.2	58.4
05:10 AM - 05:15 AM	59.8	72.9	58.1
05:15 AM - 05:20 AM	59.9	65.0	58.7
05:20 AM - 05:25 AM	60.9	70.0	58.2
05:25 AM - 05:30 AM	59.4	64.4	58.2
05:30 AM - 05:35 AM	61.6	74.5	58.7
05:35 AM - 05:40 AM	59.3	66.5	58.1
05:40 AM - 05:45 AM	60.4	70.6	58.8
05:45 AM - 05:50 AM	61.4	70.9	59.8
05:50 AM - 05:55 AM	65.7	69.1	62.9
05:55 AM - 06:00 AM	65.3	68.4	61.3
06:00 AM - 07:00 AM	60.8	76.0	59.5
07:00 AM - 08:00 AM	60.6	74.8	59.0
08:00 AM - 09:00 AM	61.8	83.1	59.8
09:00 AM - 10:00 AM	62.2	86.2	60.3
10:00 AM - 11:00 AM	62.9	80.3	60.8

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551127-1

Sample No. 25114637-24
Parameter Noise
Location รินริ่วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	62.2	85.5	60.2
12:00 PM - 01:00 PM	62.2	78.8	60.5
01:00 PM - 02:00 PM	62.2	81.0	60.3
02:00 PM - 03:00 PM	62.2	82.7	60.0
03:00 PM - 04:00 PM	61.9	82.4	59.5
04:00 PM - 05:00 PM	60.4	79.4	58.7
05:00 PM - 06:00 PM	61.0	81.3	59.5
06:00 PM - 07:00 PM	62.5	79.8	61.0
07:00 PM - 08:00 PM	61.0	83.0	59.2
08:00 PM - 09:00 PM	61.2	83.6	59.1
09:00 PM - 10:00 PM	61.5	80.3	59.2
10:00 PM - 10:05 PM	61.0	71.3	59.6
10:05 PM - 10:10 PM	60.0	65.7	58.9
10:10 PM - 10:15 PM	60.0	63.6	59.2
10:15 PM - 10:20 PM	61.8	79.3	58.9
10:20 PM - 10:25 PM	61.8	80.0	59.0
10:25 PM - 10:30 PM	60.2	67.6	58.9
10:30 PM - 10:35 PM	61.1	75.4	59.1
10:35 PM - 10:40 PM	61.5	76.8	58.4
10:40 PM - 10:45 PM	59.9	73.3	58.6
10:45 PM - 10:50 PM	60.3	77.7	58.7
10:50 PM - 10:55 PM	59.6	69.8	58.1
10:55 PM - 11:00 PM	58.9	75.4	56.9
11:00 PM - 11:05 PM	59.2	71.0	57.4
11:05 PM - 11:10 PM	59.1	73.8	57.8
11:10 PM - 11:15 PM	59.1	64.2	57.9
11:15 PM - 11:20 PM	59.2	64.5	57.5
11:20 PM - 11:25 PM	59.9	79.4	58.0
11:25 PM - 11:30 PM	60.2	80.9	57.8
11:30 PM - 11:35 PM	59.3	70.1	57.8
11:35 PM - 11:40 PM	59.4	64.5	58.3
11:40 PM - 11:45 PM	61.8	85.1	57.7
11:45 PM - 11:50 PM	59.5	77.9	57.3
11:50 PM - 11:55 PM	58.1	74.7	56.4
11:55 PM - 12:00 AM	57.5	63.7	55.6
12:00 AM - 12:05 AM	58.2	69.6	56.5
12:05 AM - 12:10 AM	58.1	61.2	56.9
12:10 AM - 12:15 AM	59.4	73.1	58.2
12:15 AM - 12:20 AM	62.7	79.5	59.0
12:20 AM - 12:25 AM	62.3	81.9	58.8

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Kanokkorn Anek
Assistant General Manager

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551127-1

Sample No. 25114637-24
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	61.6	81.0	58.3
12:30 AM - 12:35 AM	61.4	81.2	57.7
12:35 AM - 12:40 AM	61.9	80.8	58.4
12:40 AM - 12:45 AM	61.8	81.0	58.5
12:45 AM - 12:50 AM	62.2	81.3	58.5
12:50 AM - 12:55 AM	59.4	64.0	58.5
12:55 AM - 01:00 AM	59.7	67.7	58.0
01:00 AM - 01:05 AM	60.5	72.6	58.3
01:05 AM - 01:10 AM	60.0	72.9	58.8
01:10 AM - 01:15 AM	59.9	72.3	58.5
01:15 AM - 01:20 AM	62.6	82.5	58.6
01:20 AM - 01:25 AM	59.5	64.2	58.5
01:25 AM - 01:30 AM	60.1	67.1	58.6
01:30 AM - 01:35 AM	63.5	81.9	58.5
01:35 AM - 01:40 AM	62.1	81.9	58.2
01:40 AM - 01:45 AM	62.6	81.8	57.7
01:45 AM - 01:50 AM	63.3	82.7	58.8
01:50 AM - 01:55 AM	62.1	82.5	58.2
01:55 AM - 02:00 AM	59.3	62.8	58.0
02:00 AM - 02:05 AM	61.8	81.2	58.2
02:05 AM - 02:10 AM	58.9	61.5	58.0
02:10 AM - 02:15 AM	59.5	71.8	58.3
02:15 AM - 02:20 AM	58.9	63.3	57.7
02:20 AM - 02:25 AM	59.2	70.2	57.9
02:25 AM - 02:30 AM	61.8	81.7	58.6
02:30 AM - 02:35 AM	59.2	65.4	58.1
02:35 AM - 02:40 AM	61.4	81.6	58.0
02:40 AM - 02:45 AM	63.6	82.1	58.3
02:45 AM - 02:50 AM	59.0	63.7	57.7
02:50 AM - 02:55 AM	63.2	81.9	57.7
02:55 AM - 03:00 AM	59.8	65.7	58.2
03:00 AM - 03:05 AM	62.3	81.6	58.5
03:05 AM - 03:10 AM	62.5	80.9	59.0
03:10 AM - 03:15 AM	62.7	83.3	57.9
03:15 AM - 03:20 AM	59.6	70.4	58.3
03:20 AM - 03:25 AM	59.3	66.5	58.2
03:25 AM - 03:30 AM	61.4	81.7	57.2
03:30 AM - 03:35 AM	61.9	82.1	58.0
03:35 AM - 03:40 AM	61.6	82.3	57.5
03:40 AM - 03:45 AM	62.0	81.7	58.3

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551127-1

Sample No. 25114637-24
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 04 - 05, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	59.9	68.8	58.4
03:50 AM - 03:55 AM	59.4	70.1	58.3
03:55 AM - 04:00 AM	63.8	83.3	58.2
04:00 AM - 04:05 AM	59.2	65.6	58.0
04:05 AM - 04:10 AM	62.4	82.8	58.1
04:10 AM - 04:15 AM	59.5	68.4	58.2
04:15 AM - 04:20 AM	62.5	82.2	58.4
04:20 AM - 04:25 AM	59.1	65.7	58.1
04:25 AM - 04:30 AM	61.6	82.4	57.8
04:30 AM - 04:35 AM	62.0	81.8	58.1
04:35 AM - 04:40 AM	59.7	68.1	58.6
04:40 AM - 04:45 AM	62.4	82.5	58.8
04:45 AM - 04:50 AM	61.0	76.2	58.9
04:50 AM - 04:55 AM	60.1	70.2	59.2
04:55 AM - 05:00 AM	60.6	74.4	58.9
05:00 AM - 05:05 AM	60.1	66.4	59.1
05:05 AM - 05:10 AM	59.6	63.6	58.6
05:10 AM - 05:15 AM	59.9	64.8	58.8
05:15 AM - 05:20 AM	60.4	79.9	58.6
05:20 AM - 05:25 AM	59.2	70.2	57.1
05:25 AM - 05:30 AM	60.0	72.8	57.5
05:30 AM - 05:35 AM	59.0	72.0	57.6
05:35 AM - 05:40 AM	59.0	63.9	57.6
05:40 AM - 05:45 AM	58.9	63.9	57.7
05:45 AM - 05:50 AM	59.4	67.7	57.9
05:50 AM - 05:55 AM	68.4	79.1	60.3
05:55 AM - 06:00 AM	62.6	77.9	59.7
06:00 AM - 07:00 AM	60.4	78.1	58.0
07:00 AM - 08:00 AM	60.1	78.3	58.5
08:00 AM - 09:00 AM	60.3	79.0	58.2
09:00 AM - 10:00 AM	62.1	87.5	59.4
10:00 AM - 11:00 AM	64.0	80.8	59.5

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551128-1

Sample No. 25114637-25
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	62.0	81.3	59.7
12:00 PM - 01:00 PM	61.7	85.3	59.4
01:00 PM - 02:00 PM	61.9	80.8	59.8
02:00 PM - 03:00 PM	63.2	80.1	59.7
03:00 PM - 04:00 PM	60.1	78.6	58.4
04:00 PM - 05:00 PM	63.4	88.2	59.2
05:00 PM - 06:00 PM	62.2	82.5	59.8
06:00 PM - 07:00 PM	62.4	83.2	60.2
07:00 PM - 08:00 PM	60.8	79.7	58.8
08:00 PM - 09:00 PM	60.6	75.6	59.1
09:00 PM - 10:00 PM	59.9	74.3	58.8
10:00 PM - 10:05 PM	60.9	73.0	59.0
10:05 PM - 10:10 PM	60.1	66.6	58.7
10:10 PM - 10:15 PM	61.7	73.6	59.1
10:15 PM - 10:20 PM	60.4	72.6	59.1
10:20 PM - 10:25 PM	60.1	64.0	58.8
10:25 PM - 10:30 PM	60.0	65.6	58.8
10:30 PM - 10:35 PM	60.3	78.8	58.8
10:35 PM - 10:40 PM	60.0	70.9	59.0
10:40 PM - 10:45 PM	60.6	65.1	59.4
10:45 PM - 10:50 PM	60.3	64.0	59.2
10:50 PM - 10:55 PM	59.1	73.5	57.2
10:55 PM - 11:00 PM	58.4	68.2	56.3
11:00 PM - 11:05 PM	58.7	64.1	57.0
11:05 PM - 11:10 PM	59.1	68.8	57.3
11:10 PM - 11:15 PM	58.4	74.7	56.6
11:15 PM - 11:20 PM	56.7	60.3	55.2
11:20 PM - 11:25 PM	57.4	65.4	55.8
11:25 PM - 11:30 PM	58.2	76.7	55.7
11:30 PM - 11:35 PM	57.7	65.8	55.8
11:35 PM - 11:40 PM	58.4	75.4	56.0
11:40 PM - 11:45 PM	57.7	74.0	55.7
11:45 PM - 11:50 PM	57.9	71.7	55.2
11:50 PM - 11:55 PM	57.0	63.9	55.2
11:55 PM - 12:00 AM	57.0	63.3	55.2
12:00 AM - 12:05 AM	56.9	61.1	55.2
12:05 AM - 12:10 AM	57.2	61.7	55.1
12:10 AM - 12:15 AM	57.0	63.3	54.6
12:15 AM - 12:20 AM	57.1	63.9	54.8
12:20 AM - 12:25 AM	57.6	66.5	55.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551128-1

Sample No. 25114637-25
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	58.4	65.9	56.3
12:30 AM - 12:35 AM	58.3	74.3	56.6
12:35 AM - 12:40 AM	57.5	67.3	56.1
12:40 AM - 12:45 AM	59.3	74.6	57.3
12:45 AM - 12:50 AM	58.3	67.5	57.1
12:50 AM - 12:55 AM	59.0	74.3	57.4
12:55 AM - 01:00 AM	59.2	74.5	57.7
01:00 AM - 01:05 AM	58.7	74.7	57.1
01:05 AM - 01:10 AM	58.1	68.5	57.1
01:10 AM - 01:15 AM	58.9	67.8	56.9
01:15 AM - 01:20 AM	58.4	68.0	57.4
01:20 AM - 01:25 AM	58.6	64.6	57.5
01:25 AM - 01:30 AM	58.8	69.3	57.5
01:30 AM - 01:35 AM	58.5	69.3	57.3
01:35 AM - 01:40 AM	58.4	66.9	57.3
01:40 AM - 01:45 AM	59.0	74.7	57.5
01:45 AM - 01:50 AM	59.3	71.3	57.9
01:50 AM - 01:55 AM	59.4	74.6	57.6
01:55 AM - 02:00 AM	60.0	70.3	58.1
02:00 AM - 02:05 AM	60.6	71.9	58.7
02:05 AM - 02:10 AM	58.8	71.8	57.6
02:10 AM - 02:15 AM	58.5	61.7	57.5
02:15 AM - 02:20 AM	60.7	73.2	57.9
02:20 AM - 02:25 AM	58.9	64.3	57.4
02:25 AM - 02:30 AM	58.9	72.5	57.7
02:30 AM - 02:35 AM	58.3	65.3	57.1
02:35 AM - 02:40 AM	58.5	69.0	57.2
02:40 AM - 02:45 AM	58.2	66.7	57.2
02:45 AM - 02:50 AM	58.2	64.6	57.3
02:50 AM - 02:55 AM	58.8	72.5	57.3
02:55 AM - 03:00 AM	58.5	66.3	57.6
03:00 AM - 03:05 AM	59.5	66.4	57.4
03:05 AM - 03:10 AM	59.5	70.3	57.4
03:10 AM - 03:15 AM	58.1	61.7	57.2
03:15 AM - 03:20 AM	58.4	68.8	57.5
03:20 AM - 03:25 AM	59.1	68.7	57.8
03:25 AM - 03:30 AM	58.9	65.4	57.4
03:30 AM - 03:35 AM	60.0	64.2	58.3
03:35 AM - 03:40 AM	59.8	62.5	58.6
03:40 AM - 03:45 AM	59.0	63.7	57.9

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551128-1

Sample No. 25114637-25
Parameter Noise
Location จินรังด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 05 - 06, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	58.1	61.1	57.0
03:50 AM - 03:55 AM	58.8	65.4	57.1
03:55 AM - 04:00 AM	60.5	70.9	57.7
04:00 AM - 04:05 AM	57.8	62.1	56.6
04:05 AM - 04:10 AM	57.4	60.8	56.5
04:10 AM - 04:15 AM	57.2	66.9	56.1
04:15 AM - 04:20 AM	57.6	61.5	56.3
04:20 AM - 04:25 AM	58.2	62.1	56.9
04:25 AM - 04:30 AM	57.9	63.9	56.8
04:30 AM - 04:35 AM	57.4	60.2	56.4
04:35 AM - 04:40 AM	58.3	68.4	56.9
04:40 AM - 04:45 AM	58.2	62.7	56.8
04:45 AM - 04:50 AM	57.7	61.9	56.6
04:50 AM - 04:55 AM	57.8	61.9	56.4
04:55 AM - 05:00 AM	58.1	65.5	56.8
05:00 AM - 05:05 AM	58.3	67.5	56.8
05:05 AM - 05:10 AM	58.2	64.0	57.1
05:10 AM - 05:15 AM	58.7	66.4	57.4
05:15 AM - 05:20 AM	58.5	64.6	57.2
05:20 AM - 05:25 AM	57.9	62.0	56.5
05:25 AM - 05:30 AM	58.4	63.5	57.1
05:30 AM - 05:35 AM	58.3	62.7	57.3
05:35 AM - 05:40 AM	59.5	70.2	57.4
05:40 AM - 05:45 AM	59.5	65.7	57.5
05:45 AM - 05:50 AM	58.7	63.7	56.8
05:50 AM - 05:55 AM	59.7	72.9	57.9
05:55 AM - 06:00 AM	59.7	65.0	58.5
06:00 AM - 07:00 AM	60.2	75.7	58.5
07:00 AM - 08:00 AM	60.4	77.0	58.5
08:00 AM - 09:00 AM	60.6	82.7	58.0
09:00 AM - 10:00 AM	62.0	80.2	59.5
10:00 AM - 11:00 AM	61.2	78.3	59.0

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551129-1

Sample No. 25114637-26
Parameter Noise
Location จินรังด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.5	80.1	59.1
12:00 PM - 01:00 PM	60.8	87.8	58.6
01:00 PM - 02:00 PM	61.1	81.2	58.8
02:00 PM - 03:00 PM	60.4	79.6	58.5
03:00 PM - 04:00 PM	60.6	80.1	58.4
04:00 PM - 05:00 PM	60.9	82.0	58.6
05:00 PM - 06:00 PM	60.5	79.1	58.5
06:00 PM - 07:00 PM	61.6	86.5	59.8
07:00 PM - 08:00 PM	60.2	78.8	57.9
08:00 PM - 09:00 PM	60.8	80.6	58.7
09:00 PM - 10:00 PM	60.4	82.7	58.1
10:00 PM - 10:05 PM	60.5	69.9	58.2
10:05 PM - 10:10 PM	61.2	79.0	58.2
10:10 PM - 10:15 PM	61.7	80.0	57.7
10:15 PM - 10:20 PM	61.3	79.5	56.9
10:20 PM - 10:25 PM	58.8	63.9	57.2
10:25 PM - 10:30 PM	59.0	72.4	57.4
10:30 PM - 10:35 PM	60.0	76.6	57.6
10:35 PM - 10:40 PM	60.8	81.0	58.6
10:40 PM - 10:45 PM	61.1	81.2	58.8
10:45 PM - 10:50 PM	60.7	83.1	58.3
10:50 PM - 10:55 PM	60.3	78.0	57.6
10:55 PM - 11:00 PM	59.1	67.5	57.2
11:00 PM - 11:05 PM	60.1	75.0	57.1
11:05 PM - 11:10 PM	59.2	72.8	57.4
11:10 PM - 11:15 PM	58.9	77.1	57.0
11:15 PM - 11:20 PM	59.9	68.7	57.0
11:20 PM - 11:25 PM	57.9	63.8	56.7
11:25 PM - 11:30 PM	58.4	65.1	56.3
11:30 PM - 11:35 PM	58.7	67.6	56.3
11:35 PM - 11:40 PM	57.6	70.7	56.0
11:40 PM - 11:45 PM	57.7	64.0	55.9
11:45 PM - 11:50 PM	56.7	63.2	54.8
11:50 PM - 11:55 PM	57.2	61.3	55.1
11:55 PM - 12:00 AM	56.8	62.8	54.7
12:00 AM - 12:05 AM	57.8	69.0	55.3
12:05 AM - 12:10 AM	57.1	65.2	55.3
12:10 AM - 12:15 AM	59.5	80.5	55.0
12:15 AM - 12:20 AM	57.5	61.1	55.4
12:20 AM - 12:25 AM	57.9	64.3	55.4

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Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551129-1

Sample No. 25114637-26
Parameter Noise
Location รินริ้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	60.6	75.1	55.9
12:30 AM - 12:35 AM	57.8	69.6	56.2
12:35 AM - 12:40 AM	58.3	66.7	56.6
12:40 AM - 12:45 AM	58.5	69.4	56.8
12:45 AM - 12:50 AM	59.5	72.4	57.8
12:50 AM - 12:55 AM	59.4	72.7	57.9
12:55 AM - 01:00 AM	59.9	77.1	58.4
01:00 AM - 01:05 AM	59.2	64.9	57.6
01:05 AM - 01:10 AM	58.6	62.4	57.5
01:10 AM - 01:15 AM	59.3	68.2	57.7
01:15 AM - 01:20 AM	59.8	73.9	58.0
01:20 AM - 01:25 AM	58.8	68.5	57.5
01:25 AM - 01:30 AM	59.3	74.1	57.7
01:30 AM - 01:35 AM	59.3	71.1	58.2
01:35 AM - 01:40 AM	60.1	72.9	58.6
01:40 AM - 01:45 AM	59.0	73.1	57.4
01:45 AM - 01:50 AM	59.6	72.0	57.8
01:50 AM - 01:55 AM	58.6	65.3	57.3
01:55 AM - 02:00 AM	58.3	63.9	56.7
02:00 AM - 02:05 AM	58.0	65.4	56.4
02:05 AM - 02:10 AM	58.4	70.0	57.1
02:10 AM - 02:15 AM	58.6	66.9	57.1
02:15 AM - 02:20 AM	59.4	72.8	57.9
02:20 AM - 02:25 AM	59.7	67.2	58.4
02:25 AM - 02:30 AM	59.4	69.4	58.3
02:30 AM - 02:35 AM	60.6	64.9	59.1
02:35 AM - 02:40 AM	60.7	67.6	58.7
02:40 AM - 02:45 AM	60.0	64.5	58.9
02:45 AM - 02:50 AM	59.9	63.9	58.6
02:50 AM - 02:55 AM	59.6	64.8	58.4
02:55 AM - 03:00 AM	59.4	68.6	58.3
03:00 AM - 03:05 AM	58.4	62.3	57.4
03:05 AM - 03:10 AM	58.9	74.1	56.9
03:10 AM - 03:15 AM	58.0	63.4	56.4
03:15 AM - 03:20 AM	57.7	69.3	56.3
03:20 AM - 03:25 AM	58.8	65.2	56.2
03:25 AM - 03:30 AM	58.2	63.4	56.6
03:30 AM - 03:35 AM	58.6	71.2	57.0
03:35 AM - 03:40 AM	57.7	67.4	56.4
03:40 AM - 03:45 AM	59.5	75.9	57.1

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551129-1

Sample No. 25114637-26
Parameter Noise
Location รินริ้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 06 - 07, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	58.8	70.4	57.1
03:50 AM - 03:55 AM	58.5	75.7	57.0
03:55 AM - 04:00 AM	57.7	63.2	56.2
04:00 AM - 04:05 AM	59.4	79.7	56.5
04:05 AM - 04:10 AM	57.9	75.9	56.3
04:10 AM - 04:15 AM	57.9	70.6	56.4
04:15 AM - 04:20 AM	58.7	65.3	56.6
04:20 AM - 04:25 AM	59.4	78.9	56.7
04:25 AM - 04:30 AM	58.1	69.8	56.5
04:30 AM - 04:35 AM	58.8	73.7	57.0
04:35 AM - 04:40 AM	58.7	72.6	56.8
04:40 AM - 04:45 AM	58.3	65.3	57.2
04:45 AM - 04:50 AM	57.9	62.7	56.6
04:50 AM - 04:55 AM	58.0	61.3	56.8
04:55 AM - 05:00 AM	58.6	77.2	56.7
05:00 AM - 05:05 AM	59.1	71.3	57.7
05:05 AM - 05:10 AM	58.0	66.3	56.5
05:10 AM - 05:15 AM	58.3	65.6	57.1
05:15 AM - 05:20 AM	59.1	70.5	57.4
05:20 AM - 05:25 AM	60.8	77.6	56.9
05:25 AM - 05:30 AM	59.1	69.8	57.2
05:30 AM - 05:35 AM	60.2	71.0	57.5
05:35 AM - 05:40 AM	58.7	68.9	57.1
05:40 AM - 05:45 AM	59.2	66.6	57.6
05:45 AM - 05:50 AM	61.1	73.6	60.0
05:50 AM - 05:55 AM	64.5	68.4	62.1
05:55 AM - 06:00 AM	64.0	70.9	62.0
06:00 AM - 07:00 AM	60.7	74.2	59.0
07:00 AM - 08:00 AM	59.8	78.2	57.9
08:00 AM - 09:00 AM	59.9	81.0	57.9
09:00 AM - 10:00 AM	63.8	85.1	61.8
10:00 AM - 11:00 AM	63.3	75.9	60.9

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551130-1

Sample No. 25114637-27
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.2	82.9	58.9
12:00 PM - 01:00 PM	63.2	86.9	59.8
01:00 PM - 02:00 PM	62.2	79.2	59.5
02:00 PM - 03:00 PM	64.5	83.4	60.8
03:00 PM - 04:00 PM	65.1	78.7	63.8
04:00 PM - 05:00 PM	62.0	80.8	59.3
05:00 PM - 06:00 PM	62.4	81.7	59.6
06:00 PM - 07:00 PM	63.1	77.6	61.2
07:00 PM - 08:00 PM	62.2	84.0	59.6
08:00 PM - 09:00 PM	62.1	82.5	59.7
09:00 PM - 10:00 PM	62.3	80.2	59.9
10:00 PM - 10:05 PM	60.8	66.3	59.8
10:05 PM - 10:10 PM	62.0	75.1	60.1
10:10 PM - 10:15 PM	61.8	74.2	59.6
10:15 PM - 10:20 PM	60.4	69.0	59.3
10:20 PM - 10:25 PM	60.1	68.9	58.9
10:25 PM - 10:30 PM	61.0	75.9	59.0
10:30 PM - 10:35 PM	60.5	76.9	58.8
10:35 PM - 10:40 PM	60.6	75.1	58.4
10:40 PM - 10:45 PM	59.7	69.7	58.6
10:45 PM - 10:50 PM	60.8	73.1	59.6
10:50 PM - 10:55 PM	59.4	63.2	58.5
10:55 PM - 11:00 PM	59.5	73.8	58.1
11:00 PM - 11:05 PM	59.6	67.6	57.7
11:05 PM - 11:10 PM	60.1	72.1	58.5
11:10 PM - 11:15 PM	60.3	74.1	59.1
11:15 PM - 11:20 PM	60.4	71.4	59.1
11:20 PM - 11:25 PM	60.7	73.3	58.8
11:25 PM - 11:30 PM	60.2	69.3	58.9
11:30 PM - 11:35 PM	59.6	74.8	58.0
11:35 PM - 11:40 PM	58.3	63.7	56.8
11:40 PM - 11:45 PM	58.7	62.5	57.7
11:45 PM - 11:50 PM	58.9	63.3	57.5
11:50 PM - 11:55 PM	59.4	68.7	57.2
11:55 PM - 12:00 AM	58.4	70.5	56.1
12:00 AM - 12:05 AM	59.5	71.7	56.8
12:05 AM - 12:10 AM	58.3	63.9	56.4
12:10 AM - 12:15 AM	59.4	68.4	57.8
12:15 AM - 12:20 AM	61.3	74.3	58.2
12:20 AM - 12:25 AM	59.7	76.6	58.1

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551130-1

Sample No. 25114637-27
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	59.5	68.5	58.2
12:30 AM - 12:35 AM	61.0	74.1	58.3
12:35 AM - 12:40 AM	60.8	69.3	59.4
12:40 AM - 12:45 AM	63.1	79.4	59.6
12:45 AM - 12:50 AM	62.7	80.0	59.2
12:50 AM - 12:55 AM	60.3	67.6	59.3
12:55 AM - 01:00 AM	62.0	78.7	59.6
01:00 AM - 01:05 AM	62.0	80.6	59.7
01:05 AM - 01:10 AM	62.1	79.7	59.3
01:10 AM - 01:15 AM	62.6	80.1	58.8
01:15 AM - 01:20 AM	63.4	81.3	58.9
01:20 AM - 01:25 AM	61.4	78.0	58.2
01:25 AM - 01:30 AM	60.9	78.4	58.0
01:30 AM - 01:35 AM	59.1	63.2	58.0
01:35 AM - 01:40 AM	59.4	68.2	58.4
01:40 AM - 01:45 AM	60.6	68.3	58.8
01:45 AM - 01:50 AM	59.4	66.8	58.1
01:50 AM - 01:55 AM	62.4	80.8	58.2
01:55 AM - 02:00 AM	59.2	65.1	57.8
02:00 AM - 02:05 AM	62.0	79.5	58.4
02:05 AM - 02:10 AM	61.8	78.6	58.6
02:10 AM - 02:15 AM	60.6	79.2	58.0
02:15 AM - 02:20 AM	61.7	77.9	58.2
02:20 AM - 02:25 AM	61.7	78.0	58.6
02:25 AM - 02:30 AM	60.6	80.7	57.7
02:30 AM - 02:35 AM	62.8	79.7	58.6
02:35 AM - 02:40 AM	60.7	77.7	57.5
02:40 AM - 02:45 AM	58.5	65.0	57.3
02:45 AM - 02:50 AM	61.4	79.1	58.0
02:50 AM - 02:55 AM	62.0	77.5	57.8
02:55 AM - 03:00 AM	60.0	74.0	58.0
03:00 AM - 03:05 AM	60.6	75.9	58.3
03:05 AM - 03:10 AM	61.5	76.3	58.4
03:10 AM - 03:15 AM	60.2	75.9	58.4
03:15 AM - 03:20 AM	61.2	75.6	58.7
03:20 AM - 03:25 AM	59.5	69.5	58.2
03:25 AM - 03:30 AM	61.1	77.6	58.4
03:30 AM - 03:35 AM	59.3	62.6	58.3
03:35 AM - 03:40 AM	61.0	78.1	58.5
03:40 AM - 03:45 AM	59.9	70.5	58.5

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Kanokkorn Anek
Assistant General Manager

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551130-1

Sample No. 25114637-27
Parameter Noise
Location จินรังด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 07 - 08, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	62.7	79.0	58.5
03:50 AM - 03:55 AM	60.4	69.5	58.6
03:55 AM - 04:00 AM	59.0	66.1	57.8
04:00 AM - 04:05 AM	59.0	67.5	57.8
04:05 AM - 04:10 AM	59.3	63.6	58.4
04:10 AM - 04:15 AM	60.4	69.6	58.6
04:15 AM - 04:20 AM	59.7	70.6	58.4
04:20 AM - 04:25 AM	59.4	75.5	58.0
04:25 AM - 04:30 AM	60.5	78.1	58.6
04:30 AM - 04:35 AM	59.5	66.9	58.3
04:35 AM - 04:40 AM	60.1	68.0	58.3
04:40 AM - 04:45 AM	60.6	73.9	58.9
04:45 AM - 04:50 AM	59.5	77.3	58.0
04:50 AM - 04:55 AM	61.4	77.8	58.1
04:55 AM - 05:00 AM	61.8	77.2	58.1
05:00 AM - 05:05 AM	60.2	83.0	58.2
05:05 AM - 05:10 AM	59.0	62.2	57.9
05:10 AM - 05:15 AM	62.1	80.5	58.5
05:15 AM - 05:20 AM	59.3	62.9	58.1
05:20 AM - 05:25 AM	59.5	66.1	58.2
05:25 AM - 05:30 AM	60.1	65.0	58.4
05:30 AM - 05:35 AM	60.0	69.1	58.6
05:35 AM - 05:40 AM	59.9	75.0	58.4
05:40 AM - 05:45 AM	62.0	81.7	58.5
05:45 AM - 05:50 AM	62.0	80.0	58.5
05:50 AM - 05:55 AM	63.1	81.9	60.8
05:55 AM - 06:00 AM	61.1	72.1	59.5
06:00 AM - 07:00 AM	61.0	77.3	59.4
07:00 AM - 08:00 AM	59.9	77.6	58.1
08:00 AM - 09:00 AM	59.9	78.6	58.0
09:00 AM - 10:00 AM	61.6	86.3	59.5
10:00 AM - 11:00 AM	60.9	76.3	59.0

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551131-1

Sample No. 25114637-28
Parameter Noise
Location จินรังด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.5	78.8	59.5
12:00 PM - 01:00 PM	61.5	80.5	59.3
01:00 PM - 02:00 PM	62.1	81.5	59.7
02:00 PM - 03:00 PM	61.6	79.6	59.3
03:00 PM - 04:00 PM	61.4	79.1	59.3
04:00 PM - 05:00 PM	62.1	80.7	60.2
05:00 PM - 06:00 PM	63.0	84.0	60.3
06:00 PM - 07:00 PM	63.0	84.2	60.3
07:00 PM - 08:00 PM	61.3	81.6	58.9
08:00 PM - 09:00 PM	61.6	85.3	58.6
09:00 PM - 10:00 PM	59.9	79.9	58.1
10:00 PM - 10:05 PM	59.6	64.2	58.0
10:05 PM - 10:10 PM	61.9	81.4	58.7
10:10 PM - 10:15 PM	60.8	72.5	59.3
10:15 PM - 10:20 PM	59.8	65.8	58.8
10:20 PM - 10:25 PM	60.5	69.7	59.1
10:25 PM - 10:30 PM	60.0	69.2	58.8
10:30 PM - 10:35 PM	60.3	72.7	59.0
10:35 PM - 10:40 PM	60.4	67.0	59,2
10:40 PM - 10:45 PM	59.7	65.1	58.9
10:45 PM - 10:50 PM	60.0	66.8	58.9
10:50 PM - 10:55 PM	61.8	75.8	59.0
10:55 PM - 11:00 PM	60.2	75.3	59.0
11:00 PM - 11:05 PM	61.7	71.6	59.3
11:05 PM - 11:10 PM	61.1	72.6	59.3
11:10 PM - 11:15 PM	69.3	83.3	58.8
11:15 PM - 11:20 PM	66.6	83.3	59,2
11:20 PM - 11:25 PM	59.9	66.0	58.9
11:25 PM - 11:30 PM	59.8	64.4	58.9
11:30 PM - 11:35 PM	61.1	75.4	59.6
11:35 PM - 11:40 PM	60.4	70.4	59.0
11:40 PM - 11:45 PM	60.0	64.6	58.6
11:45 PM - 11:50 PM	60.0	64.0	58.8
11:50 PM - 11:55 PM	59.5	64.8	58.5
11:55 PM - 12:00 AM	61.0	74.7	58.8
12:00 AM - 12:05 AM	60.0	67.8	58.5
12:05 AM - 12:10 AM	59.4	64.0	58.2
12:10 AM - 12:15 AM	60.5	74.9	58.8
12:15 AM - 12:20 AM	60.0	74.5	58.4
12:20 AM - 12:25 AM	59.5	68.5	58.2

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551131-1

Sample No. 25114637-28
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	59.8	72.1	58.4
12:30 AM - 12:35 AM	59.1	62.6	58.1
12:35 AM - 12:40 AM	61.6	80.2	58.1
12:40 AM - 12:45 AM	59.6	66.4	58.7
12:45 AM - 12:50 AM	59.4	67.9	58.2
12:50 AM - 12:55 AM	59.5	69.8	58.5
12:55 AM - 01:00 AM	59.5	68.9	58.4
01:00 AM - 01:05 AM	59.4	69.8	58.0
01:05 AM - 01:10 AM	60.0	73.8	58.3
01:10 AM - 01:15 AM	59.3	67.5	58.0
01:15 AM - 01:20 AM	59.3	64.8	58.2
01:20 AM - 01:25 AM	59.2	67.7	58.3
01:25 AM - 01:30 AM	59.3	67.3	58.0
01:30 AM - 01:35 AM	59.2	64.9	58.1
01:35 AM - 01:40 AM	59.3	75.9	57.8
01:40 AM - 01:45 AM	59.7	68.6	58.0
01:45 AM - 01:50 AM	59.2	66.3	58.1
01:50 AM - 01:55 AM	58.9	70.2	57.9
01:55 AM - 02:00 AM	58.8	63.3	57.8
02:00 AM - 02:05 AM	59.3	67.0	58.0
02:05 AM - 02:10 AM	60.0	66.5	58.4
02:10 AM - 02:15 AM	59.7	66.3	58.6
02:15 AM - 02:20 AM	60.3	68.9	58.9
02:20 AM - 02:25 AM	62.8	77.0	61.1
02:25 AM - 02:30 AM	60.3	70.6	59.2
02:30 AM - 02:35 AM	59.4	68.4	58.4
02:35 AM - 02:40 AM	60.2	71.9	59.0
02:40 AM - 02:45 AM	60.0	66.4	58.8
02:45 AM - 02:50 AM	60.4	73.3	59.0
02:50 AM - 02:55 AM	59.7	73.4	58.6
02:55 AM - 03:00 AM	60.2	72.9	58.8
03:00 AM - 03:05 AM	61.4	67.2	59.8
03:05 AM - 03:10 AM	60.9	65.0	59.2
03:10 AM - 03:15 AM	60.5	64.6	59.3
03:15 AM - 03:20 AM	60.5	68.5	59.2
03:20 AM - 03:25 AM	59.5	62.0	58.3
03:25 AM - 03:30 AM	58.9	62.4	58.1
03:30 AM - 03:35 AM	59.5	63.4	58.4
03:35 AM - 03:40 AM	59.7	70.2	58.6
03:40 AM - 03:45 AM	60.4	70.5	58.7

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Approved by
Kanokkorn Anek
Assistant General Manager

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25114637
Date Received : Apr 10, 2026
Date Reported : Apr 22, 2026
Report No. : 3551131-1

Sample No. 25114637-28
Parameter Noise
Location ริมรั้วด้านหน้าโรงงาน (จุดอ้างอิง) (GPS 47P 0726037, 1617960) (Shut down)
Measurement Date Apr 08 - 09, 2026
Measurement by Winyou Boontanai
Sound Level Meter 00572609

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	62.2	72.1	59.1
03:50 AM - 03:55 AM	59.7	70.1	58.3
03:55 AM - 04:00 AM	59.6	74.3	58.4
04:00 AM - 04:05 AM	59.3	74.9	58.1
04:05 AM - 04:10 AM	58.9	64.0	58.1
04:10 AM - 04:15 AM	58.9	62.4	58.1
04:15 AM - 04:20 AM	59.4	66.2	58.1
04:20 AM - 04:25 AM	59.5	69.8	58.1
04:25 AM - 04:30 AM	60.7	74.9	59.0
04:30 AM - 04:35 AM	59.8	72.3	58.6
04:35 AM - 04:40 AM	59.9	65.6	58.8
04:40 AM - 04:45 AM	60.3	69.1	58.9
04:45 AM - 04:50 AM	59.7	66.2	58.6
04:50 AM - 04:55 AM	60.4	72.4	58.7
04:55 AM - 05:00 AM	60.2	69.3	58.7
05:00 AM - 05:05 AM	60.4	70.1	59.1
05:05 AM - 05:10 AM	60.3	68.7	59.2
05:10 AM - 05:15 AM	60.2	63.4	59.2
05:15 AM - 05:20 AM	60.5	63.0	59.5
05:20 AM - 05:25 AM	60.4	71.8	59.1
05:25 AM - 05:30 AM	60.7	69.0	59.5
05:30 AM - 05:35 AM	60.7	64.4	59.6
05:35 AM - 05:40 AM	60.7	68.5	59.2
05:40 AM - 05:45 AM	60.7	67.1	59.5
05:45 AM - 05:50 AM	62.7	70.4	59.9
05:50 AM - 05:55 AM	70.1	73.3	63.2
05:55 AM - 06:00 AM	68.5	73.5	60.0
06:00 AM - 07:00 AM	61.5	87.0	60.1
07:00 AM - 08:00 AM	60.5	77.0	58.8
08:00 AM - 09:00 AM	60.7	81.1	58.6
09:00 AM - 10:00 AM	63.3	81.8	60.6
10:00 AM - 11:00 AM	63.8	78.9	62.0

Reference Method :
1. In-house method : STM 06-001 based on ISO 1996-1 : 2016, ISO 1996-2 : 2017
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Kanokkorn Anek
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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ภาคผนวก ค-3

คุณภาพน้ำ

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25108359
Date Received :Jan 15, 2026
Date Reported :Jan 22, 2026
Report Number :3493560-1

Sample Number	25108359-3
Sampled Date	Jan 15, 2026 11:27 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารควบคุมกลาง โรงงาน 2 (CCR building Plant 2)
Date Analysis Commenced	Jan 16, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	106	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by Kanokkorn Anek.
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 25108359
Date Received :Jan 15, 2026
Date Reported :Jan 22, 2026
Report Number :3493561-1

Sample Number	25108359-4
Sampled Date	Jan 15, 2026 11:38 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารซ่อมบำรุง โรงงาน 2 (Workshop Plant 2)
Date Analysis Commenced	Jan 16, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	44	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by Kanokkorn Anek.
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 264723
Date Received :Feb 13, 2026
Date Reported :Feb 20, 2026
Report Number :3512511-1

Sample Number	264723-3
Sampled Date	Feb 13, 2026 11:15 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารควบคุมกลาง โรงงาน 2 (CCR building Plant 2)
Date Analysis Commenced	Feb 14, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	39	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by Kanokkorn Anek.
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 264723
Date Received :Feb 13, 2026
Date Reported :Feb 20, 2026
Report Number :3512512-1

Sample Number	264723-4
Sampled Date	Feb 13, 2026 11:32 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารซ่อมบำรุง โรงงาน 2 (Workshop Plant 2)
Date Analysis Commenced	Feb 14, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by Kanokkorn Anek.
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 264730
Date Received :Mar 13, 2026
Date Reported :Mar 20, 2026
Report Number :3532974-1

Sample Number	264730-3
Sampled Date	Mar 12, 2026 11:00 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารควบคุมกลาง โรงงาน 2 (CCR building Plant 2)
Date Analysis Commenced	Mar 13, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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Technical Management Suwimon C.
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by Kanokkorn Anek.
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 264730
Date Received :Mar 13, 2026
Date Reported :Mar 20, 2026
Report Number :3532975-1

Sample Number	264730-4
Sampled Date	Mar 12, 2026 11:23 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารซ่อมบำรุง โรงงาน 2 (Workshop Plant 2)
Date Analysis Commenced	Mar 13, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	16.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	99	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	18	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by Kanokkorn Anek.
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2624793
Date Received : Apr 01, 2026
Date Reported : Apr 08, 2026
Report Number : 3547021-1

Sample Number	2624793-3
Sampled Date	Apr 01, 2026 10:46 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารควบคุมกลาง โรงงาน 2 (CCR building Plant 2)
Date Analysis Commenced	Apr 02, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	38	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	16	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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Technical Management
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2624793
Date Received : Apr 01, 2026
Date Reported : Apr 08, 2026
Report Number : 3547022-1

Sample Number	2624793-4
Sampled Date	Apr 01, 2026 10:58 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารซ่อมบำรุง โรงงาน 2 (Workshop Plant 2)
Date Analysis Commenced	Apr 02, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	17.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	105	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	17	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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Technical Management
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

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Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2635196
Date Received :May 13, 2026
Date Reported :May 20, 2026
Report Number :3575726-1

Sample Number	2635196-3
Sampled Date	May 13, 2026 9:30 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารควบคุมกลาง โรงงาน 2 (CCR building Plant 2)
Date Analysis Commenced	May 14, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	83.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	164	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by
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Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2635196
Date Received :May 13, 2026
Date Reported :May 20, 2026
Report Number :3575727-1

Sample Number	2635196-4
Sampled Date	May 13, 2026 9:35 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารซ่อมบำรุง โรงงาน 2 (Workshop Plant 2)
Date Analysis Commenced	May 14, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	46	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by
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Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2646865
Date Received :Jun 10, 2026
Date Reported :Jun 17, 2026
Report Number :3598919-1

Sample Number	2646865-3
Sampled Date	Jun 10, 2026 10:30 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารควบคุมกลาง โรงงาน 2 (CCR building Plant 2)
Date Analysis Commenced	Jun 11, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	16.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	92	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	21	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4000030151
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2646865
Date Received :Jun 10, 2026
Date Reported :Jun 17, 2026
Report Number :3598920-1

Sample Number	2646865-4
Sampled Date	Jun 10, 2026 10:40 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	อาคารซ่อมบำรุง โรงงาน 2 (Workshop Plant 2)
Date Analysis Commenced	Jun 11, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	16.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	94	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	24	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O :
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2614222
Date Received : Feb 13, 2026
Date Reported : Feb 19, 2026
Report Number : 3508198-1

Sample Number	2614222-1
Sampled Date	Feb 13, 2026 10:38 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	บ่อพักน้ำทิ้งในโรงงาน (ห้องพักพนักงาน SCP)
Date Analysis Commenced	Feb 14, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Narin Saiseng
Supervisor
ทะเบียนเลขที่ ว-204-จ-0009

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4100119854
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2624790
Date Received : Apr 01, 2026
Date Reported : Apr 08, 2026
Report Number : 3532270-1

Sample Number	2624790-1
Sampled Date	Apr 01, 2026 9:58 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	บ่อพักน้ำทิ้งในโรงงาน (ห้องพักพนักงาน SCP)
Date Analysis Commenced	Apr 02, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Suwimon Chairuangwut
Scientist (3)
ทะเบียนเลขที่ ว-204-จ-0018

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi, Saraburi Thailand 18260
P/O : 4100119854
Project Name : Saraburi Factory Plant
Project Location :

Lot ID: 2646848
Date Received :Jun 10, 2026
Date Reported :Jun 17, 2026
Report Number :3583943-1

Sample Number	2646848-1
Sampled Date	Jun 10, 2026 9:38 AM
Sample Description	น้ำทิ้งจากการอุปโภคบริโภค
Location	บ่อพักน้ำทิ้งในโรงงาน (ห้องพักพนักงาน SCP)
Date Analysis Commenced	Jun 11, 2026
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Suspended Solids Dried from 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-0058

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Narin Saiseng
Supervisor
ทะเบียนเลขที่ ว-204-จ-0009

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

ภาคผนวก ค-4

คุณภาพสิ่งแวดล้อมในสถานประกอบการ

F-ES-075 (V.2.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601021

Report date: 19 May 2026

Client information

Company: Siam City Cement Public Company Limited
Contact Person: Miss Natnicha Panchang
Address: 219 Moo 5 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: natnicha.panchang@siamcitycement.com **Tel:** 0 3624 0930 Ext. 4675

Sample information

Description: Noise exposure of employee
Location: Siam City Power K3

Area No.	Date	Sample/ Area	Lmax (dB(A))	TWA (dB(A))	TWA* PPE# used (dB(A))
1	23 Feb 2026	Mr.Thanakorn Chantrabut Position: Field Operator Working area: WHR Fac 2	84.1	31.1	30.6
		Standard	115[1]	85[2]	

Reference Method:

: Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:

[1]: Ministerial Regulation on the Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2559, Thailand.

[2]: Notifications of the Department of Labor Protection and Welfare on the standard limit for the noise exposure in a daily average basis B.E. 2561, Thailand.

Remark:

[3]: Notifications of the Department of Labor Protection and Welfare on the calculation method for occupational noise exposure as a personal protective equipment (PPE) used condition B.E. 2561, Thailand.

[4]: Earplug brand: 3M, model: 1270, Noise Reduction Rating 25 Decibel.

Analyzed by

(Miss Natnicha Panchang)
05-219-2568-000065

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-075 (V.2.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601021

Report date: 19 May 2026

Client information

Company: Siam City Cement Public Company Limited
Contact Person: Miss Natnicha Panchang
Address: 219 Moo 5 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: natnicha.panchang@siamcitycement.com Tel: 0 3624 0930 Ext. 4675

Sample information

Description: Noise exposure of employee
Location: Siam City Power K3

Monitoring device / Calibrator information

Equipment: Sound Calibrator
Approved standard: IEC 60942
Code: E-EN-179
serial No.: 19003471
Brand / Model: DeltaOHM/ HD 2020
Calibration date: 27 February 2025
expire date: 26 February 2026
Please scan QR Code for the certificate E-EN-179-2025Y
Area No. 1

Equipment: Noise Dosimeter
Approved standard: IEC 61252
Code: E-EN-189
serial No.: 210100147
Brand / Model: EXTECH/SL400
Calibration date: 30 June 2025
expire date: 29 June 2026
Please scan QR Code for the certificate E-EN-189-2025Y
Area No. 1

Analyzed by

(Miss Natnicha Panchang)
05-219-2568-000065

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601018

Report date: 19 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Miss Natnicha Panchang
Address: 219 Moo 5 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: natnicha.panchang@siamcitycement.com **Tel:** 0 3624 0930 Ext. 4675

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K3

Area No.	Date	Area	Leq 8 hr (dB(A))	Lmax (dB(A))
1	23 Feb 2026	Turbine and Generator	83	84
Standard			-	**115**[1]

Reference Method:
: Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
[1]: Ministerial Regulation on the Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2559, Thailand.

Analyzed by

(Miss Natnicha Panchang)
05-219-2568-000065

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-074 (V.2.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601018

Report date: 19 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Miss Natnicha Panchang
Address: 219 Moo 5 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: natnicha.panchang@siamcitycement.com Tel: 0 3624 0930 Ext. 4675

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K3

Monitoring device / Calibrator information

Equipment:	Sound Calibrator	**Please scan QR Code for the certificate**	**Area No.** 1
Approved standard:	IEC 60942		
Code:	E-EN-179		
serial No.:	19003471		
Brand / Model:	DeltaOHM / HD 2020		
Calibration date:	27 February 2025		
expire date:	26 February 2026		

E-EN-179-2025Y

Equipment:	Sound Level Meter	**Please scan QR Code for the certificate**	**Area No.** 1
Approved standard:	IEC 61672		
Code:	E-EN-200		
serial No.:	00730560		
Brand / Model:	RION / NL-43		
Calibration date:	27 February 2025		
expire date:	26 February 2026		

E-EN-200-2025Y

Analyzed by

(Miss Natnicha Panchang)
05-219-2568-000065

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601020

Report date: 19 May 2026

Client information

Company: Siam City Cement Public Company Limited
Contact Person: Miss Natnicha Panchang
Address: 219 Moo 5 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: natnicha.panchang@siamcitycement.com **Tel:** 0 3624 0930 Ext. 4675

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K3

Area No.	Date	Area	Temperature [°C]			Working condition	WBGT [°C]
			Wet Bulb	Dry Bulb	Globe		
1	23 Feb 2026	Turbine and Generator	26.4	32.5	32.7	Indoor	28.3
2		Control room	20.2	25.4	25.5		21.9
3	24 Feb 2026	Air Quenching Cooler Boiler	26.5	32.6	32.8		28.4
4		Preheater Boiler	27.1	32.9	33.3		29.1

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat, light and noise B.E. 2561, Thailand.

Reference Standard:

Analyzed by

(Miss Natnicha Panchang)
05-219-2568-000065

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-073 (V. 2.0 01/05/2026)

INSEE

Analysis Report

Report number: 202601020

Report date: 19 May 2026

Client information

Company: Siam City Cement Public Company Limited
Contact Person: Miss Natnicha Panchang
Address: 219 Moo 5 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: natnicha.panchang@siamcitycement.com Tel: 0 3624 0930 Ext. 4675

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K3

Monitoring device / Calibrator information

Equipment: Thermal Environment Monitor
Approved standard: ISO 7243
Code: E-EN-187
serial No.: 19028482
Brand / Model: Delta OHM / HD32.2R
Calibration date: 27 February 2025
expire date: 26 February 2026

Please scan QR Code for the certificate

E-EN-187-2025Y

Area No.
1-4

Analyzed by

(Miss Natnicha Panchang)
05-219-2568-000065

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601019

Report date: 19 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Miss Natnicha Panchang
Address: 219 Moo 5 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: natnicha.panchang@siamcitycement.com **Tel:** 0 3624 0930 Ext. 4675

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K3

Area measurement

Area No.	Date	Area	Work type	Illumination [Lux]		Standard [Lux]	
				Average	Min	Average	Min
1	23 Feb 2026	Turbine and Generator	Boiler building	228	187	200	100
2		Air Quenching Cooler Boiler	Boiler building	821	742	200	100
5		Preheater Boiler	Boiler building	763	635	200	100
6		Control room	Control room	412	374	200	100

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
Notifications of the Department of Labor Protection and Welfare on the Illumination standard B.E. 2561, Thailand.

Remark: dayshift

Analyzed by

(Miss Natnicha Panchang)
05-219-2568-000065

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-076 (V.3.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601019

Report date: 19 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Miss Natnicha Panchang
Address: 219 Moo 5 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: natnicha.panchang@siamcitycement.com Tel: 0 3624 0930 Ext. 4675

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K3

Monitoring device / Calibrator information

Equipment: Digital Light Meter
Code: E-EN-184
serial No.: A.043049
Brand / Model: EXTECH / 407026
Calibration date: 7 August 2025
expire date: 6 August 2026

Please scan QR Code for the certificate

E-EN-184 2025Y

Area No.

1-4

Analyzed by

(Miss Natnicha Panchang)
05-219-2568-000065

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitraparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601004
Report date: 8 May 2025

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Area No.	Date	Area	Leq 8 hr (dB(A))	Lmax (dB(A))
1	28 Jan 2026	Turbine and Generator	84	92
Standard			-	**115**[1]

Reference Method:
: Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
[1]: Ministerial Regulation on the Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2559, Thailand.

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-074 (V.2.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601004
Report date: 8 May 2025

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment:	Sound Calibrator	**Please scan QR Code for the certificate**	**Area No.** 1
Approved standard:	IEC 60942		
Code:	E-EN-179		
serial No.:	19003471		
Brand / Model:	DeltaOHM / HD 2020		
Calibration date:	27 February 2025		
expire date:	26 February 2026		

E-EN-179-2025Y

Equipment:	Sound Level Meter	**Please scan QR Code for the certificate**	**Area No.** 1
Approved standard:	IEC 61672		
Code:	E-EN-200		
serial No.:	00730560		
Brand / Model:	RION / NL-43		
Calibration date:	27 February 2025		
expire date:	26 February 2026		

E-EN-200-2025Y

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601010

Report date: 12 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Sourid level measurement in workplace
Location: Siam City Power K5+K6

Area No	Date	Area	Leq 8 hr (dB(A))	Lmax (dB(A))
1	24 Feb 2026	Turbine and Generator	86	93
Standard			-	**115[1]**

Reference Method:
: Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
[1]: Ministerial Regulation on the Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2559, Thailand.

Analyzed by

(Mr.Teerapon Pichaikham)
กสจ.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-074 (V.2.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601010

Report date: 12 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Sound Calibrator
Approved standard: IEC 60942
Code: E-EN-179
serial No.: 19003471
Brand / Model: DeltaOHM / HD 2020
Calibration date: 27 February 2025
expire date: 26 February 2026

Please scan QR Code for the certificate

E-EN-179-2025Y

Area No. 1

Equipment: Sound Level Meter
Approved standard: IEC 61672
Code: E-EN-200
serial No.: 00730560
Brand / Model: RION / NL-43
Calibration date: 27 February 2025
expire date: 26 February 2026

Please scan QR Code for the certificate

E-EN-200-2025Y

Area No. 1

Analyzed by

(Mr.Teerapon Pichaikham)
กสจ.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601029

Report date: 26 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Area No.	Date	Area	Leq 8 hr (dB(A))	Lmax (dB(A))
1	24 Mar 2026	Turbine and Generator	87	97
Standard			-	**115**[1]

Reference Method:
: Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
[1]: Ministerial Regulation on the Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2559, Thailand.

Analyzed by

(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-074 (V.2.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601029

Report date: 26 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Sound Calibrator
Approved standard: IEC 60942
Code: E-EN-179
serial No.: 19003471
Brand / Model: DeltaOHM/ HD 2020
Calibration date: 6 April 2026
expire date: 5 April 2027

Please scan QR Code for the certificate

E-EN-179-2026Y

Area No. 1

Equipment: Digital Sound Level Meter
Approved standard: IEC 61672
Code: E-EN-154
serial No.: 00233180
Brand / Model: RION / NL-42
Calibration date: 7 August 2025
expire date: 6 August 2026

Please scan QR Code for the certificate

E-EN-154 2025Y

Area No. 1

Analyzed by

(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601040

Report date: 28 May 2025

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Area No.	Date	Area	Leq 8 hr (dB(A))	Lmax (dB(A))
1	28 Apr 2026	Turbine and Generator	83	94
Standard			-	**115[1]**

Reference Method:
: Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
[1]: Ministerial Regulation on the Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2559, Thailand.

Analyzed by

(Mr.Teerapon Pichaikham)
กสว.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-074 (V.2.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601040

Report date: 28 May 2025

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Sound Calibrator
Approved standard: IEC 60942
Code: E-EN-179
serial No.: 19003471
Brand / Model: DeltaOHM/ HD 2020
Calibration date: 6 April 2026
expire date: 5 April 2027

Please scan QR Code for the certificate

E-EN-179-2026Y

Area No. 1

Equipment: Sound Level Meter
Approved standard: IEC 61672
Code: E-EN-200
serial No.: 00730560
Brand / Model: RION / NL-43
Calibration date: 6 April 2026
expire date: 5 April 2027

Please scan QR Code for the certificate

E-EN-200-2026Y

Area No. 1

Analyzed by

(Mr.Teerapon Pichaikham)
กสว.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601055

Report date: 26 Jun 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Area No	Date	Area	Leq 8 hr (dB(A))	Lmax (dB(A))
1	27 May 2026	Turbine and Generator	82	90
Standard			-	**115**[1]

Reference Method:
: Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
[1]: Ministerial Regulation on the Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2559, Thailand.

Analyzed by

(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-074 (V.2.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601055

Report date: 26 Jun 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Sound Calibrator
Approved standard: IEC 60942
Code: E-EN-179
serial No.: 19003471
Brand / Model: DeltaOHM/ HD 2020
Calibration date: 6 April 2026
expire date: 5 April 2027

Please scan QR Code for the certificate

E-EN-179-2026Y

Area No.

Equipment: Sound Level Meter
Approved standard: IEC 61672
Code: E-EN-200
serial No.: 00730560
Brand / Model: RION / NL-43
Calibration date: 6 April 2026
expire date: 5 April 2027

Please scan QR Code for the certificate

E-EN-200-2026Y

Area No.

Analyzed by

(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601061
Report date: 1 Jul 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Area No	Date	Area	Leq 8 hr (dB(A))	Lmax (dB(A))
1	24 Jun 2026	Turbine and Generator	82	91
Standard			-	**115[1]**

Reference Method:
: Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
1: Ministerial Regulation on the Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2559, Thailand.

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-074 (V.2.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601061
Report date: 1 Jul 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Sound level measurement in workplace
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Sound Calibrator
Approved standard: IEC 60942
Code: E-EN-179
serial No.: 19003471
Brand / Model: DeltaOHM/ HD 2020
Calibration date: 6 April 2026
expire date: 5 April 2027
Please scan QR Code for the certificate
E-EN-179-2026Y
Area No. 1

Equipment: Sound Level Meter
Approved standard: IEC 61672
Code: E-EN-200
serial No.: 00730560
Brand / Model: RION / NL-43
Calibration date: 6 April 2026
expire date: 5 April 2027
Please scan QR Code for the certificate
E-EN-200-2026Y
Area No. 1

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601006

Report date: 8 May 2026

Client information

Company: Siam City Cement Public Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5+K6

Area No.	Date	Area	Temperature [°C]			Working condition	WBGT [°C]
			Wet Bulb	Dry Bulb	Globe		
1	28 Jan 2026	Turbine and Generator	27.4	39.6	41.2	Indoor	31.5
2		Control room	20.3	25.8	25.7		22.0
3	29 Jan 2026	Preheater Boiler K5	25.8	32.9	33.1		28.0
4		Air Quenching Cooler Boiler K5	25.3	31.0	31.6		27.2
5	30 Jan 2026	Air Quenching Cooler Boiler K6	24.8	32.2	32.3		27.5
6		Preheater Boiler K6	25.5	30.1	31.4		27.3

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat, light and noise B.E.2561, Thailand.

Reference Standard:

Analyzed by

(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-073 (V. 2.0 01/05/2026)

INSEE

Analysis Report

Report number: 202601006

Report date: 8 May 2026

Client information

Company: Siam City Cement Public Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Thermal Environment Monitor
Approved standard: ISO 7243
Code: E-EN-187
serial No.: 19028482
Brand / Model: Delta OHM / HD32.2R
Calibration date: 27 February 2025
expire date: 26 February 2026

Please scan QR Code for the certificate

E-EN-187-2025Y

Area No.

1-6

Analyzed by

(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601012

Report date: 12 May 2026

Client information

Company: Siam City Cement Public Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5+K6

Area No.	Date	Area	Temperature [°C]			Working condition	WBGT [°C]
			Wet Bulb	Dry Bulb	Globe		
1	24 Feb 2026	Turbine and Generator	27.4	38.2	36.6	Indoor	30.8
2		Control room	20.7	24.5	24.8		21.9
3	25 Feb 2026	Preheater Boiler K5	25.9	31.3	31.9		27.7
4		Air Quenching Cooler Boiler K5	25.2	32.1	32.3		27.3
5	26 Feb 2026	Air Quenching Cooler Boiler K6	24.8	32.2	32.3		27.5
6		Preheater Boiler K6	26.4	31.1	31.2		27.8

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat, light and noise B.E.2561, Thailand.

Reference Standard:

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.จป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-073 (V. 2.0 01/05/2026)
INSEE
Analysis Report
Report number: 202601012
Report date: 12 May 2026
Client information
Company: Siam City Cement Public Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600
Sample information
Description: Heat stress measurement in working area.
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment:	Thermal Environment Monitor		**Area No.**
Approved standard:	ISO 7243		5-6
Code:	E-EN-155	**Please scan QR Code for the certificate**	E-EN-155 2025Y
serial No.:	TPM100026		
Brand / Model:	3M / QUESTemp 32		
Calibration date:	7 August 2025		
expire date:	6 August 2026		
Equipment:	Thermal Environment Monitor		**Area No.**
Approved standard:	ISO 7243		1-4
Code:	E-EN-187	**Please scan QR Code for the certificate**	E-EN-187-2025Y
serial No.:	19028482		
Brand / Model:	Delta OHM / HD32.2R		
Calibration date:	27 February 2025		
expire date:	26 February 2026		

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.จป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601031

Report date: 26 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9, Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5, K6

Area No.	Date	Area	Temperature [°C]			Working condition	WBGT [°C]
			Wet Bulb	Dry Bulb	Globe		
1	24 Mar 2026	Turbine and Generator	27.0	42.5	42.5	Indoor	31.8
2		Control room	21.4	24.5	24.7		22.4
3	25 Mar 2026	Preheater Boiler K5	26.6	31.3	31.4		28.0
4		Air Quenching Cooler Boiler K5	26.3	33.7	33.7		28.5
5	26 Mar 2026	Air Quenching Cooler Boiler K6	26.5	33.9	40.1		28.7
6		Preheater Boiler K6	26.4	32.3	32.5		28.2

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat, light and noise B.E.2561, Thailand.

Reference Standard:

Analyzed by

(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-073 (V. 2.0 01/05/2026)

INSEE

Analysis Report

Report number: 202601031

Report date: 26 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9, Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5, K6

Monitoring device / Calibrator information

Equipment:	Thermal Environment Monitor
Approved standard:	ISO 7243
Code:	E-EN-187
serial No.:	19028482
Brand / Model:	Delta OHM / HD32.2R
Calibration date:	28 February 2026
expire date:	27 February 2027

Please scan QR Code for the certificate

E-EN-187-2026Y

Area No.
1-6

Analyzed by

(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601041

Report date: 28 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9, Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5, K6

Area No.	Date	Area	Temperature [°C]			Working condition	WBGT [°C]
			Wet Bulb	Dry Bulb	Globe		
1	28 Apr 2026	Turbine and Generator	27.7	39.5	40.1	Indoor	31.4
2		Control room	20.8	25.1	25.3		22.2
3	29 Apr 2026	Preheater Boiler K5	26.4	30.7	31.2		27.8
4		Air Quenching Cooler Boiler K5	25.3	31.3	32.1		27.1
5	30 Apr 2026	Air Quenching Cooler Boiler K6	25.4	31.5	32.5		27.2
6		Preheater Boiler K6	26.5	30.4	31.1		27.9

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat, light and noise B.E. 2561, Thailand.

Reference Standard:

Analyzed by

(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-073 (V. 2.0 01/05/2026)

INSEE

Analysis Report

Report number: 202601041

Report date: 28 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9, Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5, K6

Monitoring device / Calibrator information

Equipment: Thermal Environment Monitor
Approved standard: ISO 7243
Code: E-EN-187
serial No.: 19028482
Brand / Model: Delta OHM / HD32.2R
Calibration date: 28 February 2026
expire date: 27 February 2027

Please scan QR Code for the certificate

E-EN-187-2026Y

Area No.

1-6

Analyzed by

(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

F-ES-073 (V. 2.0 01/05/2026)

INSEE

Analysis Report

Report number: 202601056

Report date: 26 Jun 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9, Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5, K6

Area No.	Date	Area	Temperature [°C]			Working condition	WBGT [°C]
			Wet Bulb	Dry Bulb	Globe		
1	27 May 2026	Turbine and Generator	29.1	35.5	35.8	Indoor	31.1
2		Control room	19.8	24.2	24.4		21.3
3	28 May 2026	Preheater Boiler K5	25.1	31.4	31.2		26.9
4		Air Quenching Cooler Boiler K5	24.8	30.9	31.2		26.7
5	29 May 2026	Air Quenching Cooler Boiler K6	24.6	29.5	29.5		26.1
6		Preheater Boiler K6	25.3	29.9	30.2		26.8

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat, light and noise B.E.2561, Thailand

Reference Standard:

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-073 (V. 2.0 01/05/2026)

INSEE

Analysis Report

Report number: 202601057

Report date: 26 Jun 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9, Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5, K6

Monitoring device / Calibrator information

Equipment: Thermal Environment Monitor
Approved standard: ISO 7243
Code: E-EN-187
serial No.: 19028482
Brand / Model: Delta OHM / HD32.2R
Calibration date: 28 February 2026
expire date: 27 February 2027

Please scan QR Code for the certificate

E-EN-187-2026Y

Area No.
1-6

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601063

Report date: 1 Jul 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9, Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5, K6

Area No.	Date	Area	Temperature [°C]			Working condition	WBGT [°C]
			Wet Bulb	Dry Bulb	Globe		
1	24 Jun 2026	Turbine and Generator	39.7	36.8	37.2	Indoor	32.0
2		Control room	19.9	25.0	25.3		21.5
3	25 Jun 2026	Preheater Boiler K5	24.6	31.7	32.3		26.9
4		Air Quenching Cooler Boiler K5	24.3	31.5	31.6		26.5
5	26 Jun 2026	Air Quenching Cooler Boiler K6	24.6	31.1	31.4		26.6
6		Preheater Boiler K6	24.4	31.6	32.1		26.7

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat, light and noise B.E.2561, Thailand.

Reference Standard:

Analyzed by

(Mr.Teerapon Pichaikham)
กสว.ชน.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-073 (V. 2.0 01/05/2026)

INSEE

Analysis Report

Report number: 202601063

Report date: 1 Jul 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9, Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Heat stress measurement in working area.
Location: Siam City Power K5, K6

Monitoring device / Calibrator information

Equipment: Thermal Environment Monitor
Approved standard: ISO 7243
Code: E-EN-187
serial No.: 19028482
Brand / Model: Delta OHM / HD32.2R
Calibration date: 28 February 2026
expire date: 27 February 2027

Please scan QR Code for the certificate

E-EN-187-2026Y

Area No.

1-6

Analyzed by

(Mr.Teerapon Pichaikham)
กสว.ชน.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601005
Report date: 8 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Area measurement

Area No.	Date	Area	Work type	Illumination [Lux]		Standard [Lux]	
				Average	Min	Average	Min
1	28 Jan 2026	Turbine and Generator	Boiler building	216	173	200	100
2		Air Quenching Cooler Boiler K5	Boiler building	328	194	200	100
3		Air Quenching Cooler Boiler K6	Boiler building	209	143	200	100
4		Preheater Boiler K5	Boiler building	215	181	200	100
5		Preheater Boiler K6	Boiler building	336	192	200	100
6		Control room	Control room	576	552	200	100

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
Notifications of the Department of Labor Protection and Welfare on the Illumination standard B.E. 2561, Thailand.

Remark: dayshift

Analyzed by
(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-076 (V.3.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601005
Report date: 8 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Digital Light Meter
Code: E-EN-184
serial No.: A.043049
Brand / Model: EXTECH / 407026
Calibration date: 7 August 2025
expire date: 6 August 2026

Please scan QR Code for the certificate

E-EN-184 2025V2

Area No.
1-6

Analyzed by
(Mr.Teerapon Pichaikham)
กสร.จป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitraparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601011

Report date: 12 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Area measurement

Area No.	Date	Area	Work type	Illumination [Lux]		Standard [Lux]	
				Average	Min	Average	Min
1	24 Feb 2026	Turbine and Generator	Boiler building	231	173	200	100
2		Air Quenching Cooler Boiler K5	Boiler building	353	187	200	100
3		Air Quenching Cooler Boiler K6	Boiler building	220	153	200	100
4		Preheater Boiler K5	Boiler building	218	179	200	100
5		Preheater Boiler K6	Boiler building	336	185	200	100
6		Control room	Control room	576	545	200	100

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
Notifications of the Department of Labor Protection and Welfare on the Illumination standard B.E. 2561, Thailand.

Remark: dayshift

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-076 (V.3.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601011

Report date: 12 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Digital Light Meter
Code: E-EN-184
serial No.: A.043049
Brand / Model: EXTECH / 407026
Calibration date: 7 August 2025
expire date: 6 August 2026

Please scan QR Code for the certificate

E-EN-184 2025Y2

Area No.
1-6

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitraparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601030

Report date: 26 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Area measurement

Area No.	Date	Area	Work type	Illumination [Lux]		Standard [Lux]	
				Average	Min	Average	Min
1	24 Mar 2026	Turbine and Generator	Boiler building	215	164	200	100
2		Air Quenching Cooler Boiler K5	Boiler building	310	169	200	100
3		Air Quenching Cooler Boiler K6	Boiler building	211	143	200	100
4		Preheater Boiler K5	Boiler building	209	164	200	100
5		Preheater Boiler K6	Boiler building	316	167	200	100
6		Control room	Control room	568	530	200	100

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
Notifications of the Department of Labor Protection and Welfare on the Illumination standard B.E. 2561, Thailand.

Remark: dayshift

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.จป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-076 (V.3.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601030

Report date: 26 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Digital Light Meter
Code: E-EN-184
serial No.: A.043049
Brand / Model: EXTECH / 407026
Calibration date: 7 August 2025
expire date: 6 August 2026

Please scan QR Code for the certificate

E-EN-184 2025

Area No.
1-6

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.จป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitraparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601041

Report date: 28 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Area measurement

Area No.	Date	Area	Work type	Illumination [Lux]		Standard [Lux]	
				Average	Min	Average	Min
1	28 Apr 2026	Turbine and Generator	Boiler building	213	153	200	100
2		Air Quenching Cooler Boiler K5	Boiler building	297	163	200	100
3		Air Quenching Cooler Boiler K6	Boiler building	209	151	200	100
4		Preheater Boiler K5	Boiler building	216	168	200	100
5		Preheater Boiler K6	Boiler building	298	187	200	100
6		Control room	Control room	612	576	200	100

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
Notifications of the Department of Labor Protection and Welfare on the Illumination standard B.E. 2561, Thailand.

Remark: dayshift

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.จป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-076 (V.3.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601041

Report date: 28 May 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Digital Light Meter
Code: E-EN-184
serial No.: A.043049
Brand / Model: EXTECH / 407026
Calibration date: 7 August 2025
expire date: 6 August 2026

Please scan QR Code for the certificate

E-EN-184 2025

Area No.
1-6

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.จป.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitraparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601056

Report date: 26 Jun 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Area measurement

Area No.	Date	Area	Work type	Illumination [Lux]		Standard [Lux]	
				Average	Min	Average	Min
1	27 May 2026	Turbine and Generator	Boiler building	215	177	200	100
2		Air Quenching Cooler Boiler K5	Boiler building	326	170	200	100
3		Air Quenching Cooler Boiler K6	Boiler building	210	158	200	100
4		Preheater Boiler K5	Boiler building	212	172	200	100
5		Preheater Boiler K6	Boiler building	304	189	200	100
6		Control room	Control room	604	571	200	100

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
Notifications of the Department of Labor Protection and Welfare on the Illumination standard B.E. 2561, Thailand.

Remark: dayshift

Analyzed by

(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-076 (V.3.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601056

Report date: 26 Jun 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: Illumination level measurement at working area.
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Digital Light Meter
Code: E-EN-184
serial No.: A.043049
Brand / Model: EXTECH / 407026
Calibration date: 7 August 2025
expire date: 6 August 2026

Please scan QR Code for the certificate

E-EN-184 2025

Area No.

1-6

Analyzed by

(Mr.Teerapon Pichaikham)
กสว.ชป.ว. 219-000969

Approved by

(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitraparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

INSEE

Analysis Report

Report number: 202601062

Report date: 1 Jul 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com **Tel:** 08 5007 8600

Sample information

Description: illumination level measurement at working area.
Location: Siam City Power K5+K6

Area measurement

Area No.	Date	Area	Work type	Illumination [Lux]		Standard [Lux]	
				Average	Min	Average	Min
1	24 Jun 2026	Turbine and Generator	Boiler building	209	168	200	100
2		Air Quenching Cooler Boiler K5	Boiler building	297	191	200	100
3		Air Quenching Cooler Boiler K6	Boiler building	211	164	200	100
4		Preheater Boiler K5	Boiler building	205	157	200	100
5		Preheater Boiler K6	Boiler building	289	185	200	100
6		Control room	Control room	582	554	200	100

Reference Method:
Notifications of the Department of Labor Protection and Welfare on principle, measurement method and analysis of the working condition on heat level, illumination, or noise B.E. 2561, Thailand.

Reference Standard:
Notifications of the Department of Labor Protection and Welfare on the Illumination standard B.E. 2561, Thailand.

Remark: dayshift

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชน.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

F-ES-076 (V.3.0; 01-05-2026)

INSEE

Analysis Report

Report number: 202601062

Report date: 1 Jul 2026

Client information

Company: Siam City Power Company Limited
Contact Person: Mr.Teerapon Pichaikham
Address: 99 Moo 9 Mitraparp Road, Tabkwang, Khaengkoi, Saraburi 18260
E-mail: teerapon.pichaikham@siamcitycement.com Tel: 08 5007 8600

Sample information

Description: illumination level measurement at working area.
Location: Siam City Power K5+K6

Monitoring device / Calibrator information

Equipment: Digital Light Meter
Code: E-EN-184
serial No.: A.043049
Brand / Model: EXTECH / 407026
Calibration date: 7 August 2025
expire date: 6 August 2026

Please scan QR Code for the certificate

Area No.
1-6

Analyzed by
(Mr.Teerapon Pichaikham)
กสว.ชน.ว. 219-000969

Approved by
(Mrs.Pimonpan Putchay)
Environment Monitoring & Solution Specialist

Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitraparb Road, Tabkwang, Khaengkoi, Saraburi 18260. Telephone:036-240-930 EXT.4530

ภาคผนวก ง

ใบรับรองการสอบเทียบเครื่องมือ

right solutions.
right partner.

รายการเครื่องมือที่ใช้ในการวิเคราะห์ / ทดสอบ

Sample Name	Parameter	Equipment Name	ID No.	Calibrated Date	Next Cal	Freq. Calibrate (Months)
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS0379	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS1487	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS0381	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS1486	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS1487	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS0379	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS0379	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS0375	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS1487	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS1486	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS1486	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	High Volume	BKK_FS0379	-	-	On site Calibration
Ambient	Particulate Matter (PM-10)	Digital Balance	BKK_EN0403	30-May-25	30-May-26	12
Ambient	Particulate Matter (PM-10)	Digital Balance	BKK_EN0403	28-May-26	28-May-27	12
Ambient	Total Suspended Particulate	High Volume	BKK_FS1375	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1485	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS0362	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1484	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1485	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1375	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1375	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1058	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1485	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1484	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1484	-	-	On site Calibration
Ambient	Total Suspended Particulate	High Volume	BKK_FS1375	-	-	On site Calibration
Ambient	Total Suspended Particulate	Digital Balance	BKK_EN0403	30-May-25	30-May-26	12
Ambient	Total Suspended Particulate	Digital Balance	BKK_EN0403	28-May-26	28-May-27	12
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0803	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0785	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS1088	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0800	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0785	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0803	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0803	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS1072	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0785	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0800	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0803	5-Jan-26	5-Jul-26	6
Ambient	Nitrogen Dioxide	NO_2 Analyzer	BKK_FS0803	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0802	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0784	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS1087	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0781	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0784	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0802	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0802	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0799	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0784	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0799	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0802	5-Jan-26	5-Jul-26	6
Ambient	Sulfur Dioxide	SO_2 Analyzer	BKK_FS0802	5-Jan-26	5-Jul-26	6

right solutions.
right partner.

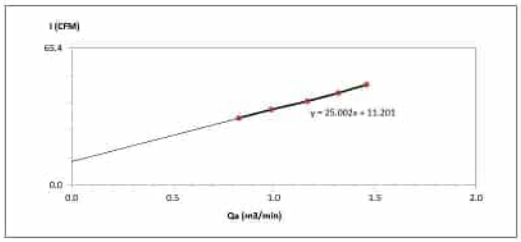
รายการเครื่องมือที่ใช้ในการวิเคราะห์ / ทดสอบ

Sample Name	Parameter	Equipment Name	ID No.	Calibrated Date	Next Cal	Freq. Calibrate (Months)
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS1369	26-Nov-24	26-May-26	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS1213	12-Nov-25	12-May-27	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS0919	13-Feb-26	13-Aug-27	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS1371	27-Dec-24	27-Jun-26	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS0888	1-Aug-25	1-Feb-27	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS0161	6-May-25	6-Nov-26	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS0917	25-Nov-24	25-May-26	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS0159	12-Nov-25	12-May-27	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS1372	18-Dec-24	18-Jun-26	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS1371	27-Dec-24	27-Jun-26	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS0165	1-Aug-25	1-Feb-27	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS0167	5-Jan-26	5-Jul-27	18
Ambient	Wind Speed / Wind Direction	Wind Speed / Wind Direction	BKK_FS0167	5-Jan-26	5-Jul-27	18
Noise	Leq 24 hrs	Sound Calibrator	BKK_FS0618	24-Nov-25	23-Nov-26	12
Noise	Leq 24 hrs	Sound Level Meter	BKK_FS0031	21-Jul-25	20-Jul-26	12
Noise	Leq 24 hrs	Sound Level Meter	BKK_FS0968	28-Apr-25	28-Apr-26	12
Noise	Leq 24 hrs	Sound Level Meter	BKK_FS0096	27-Jan-26	26-Jan-27	12
Noise	Leq 24 hrs	Sound Level Meter	BKK_FS0923	15-Jan-26	14-Jan-27	12
Noise	Noise Annoyance	Sound Calibrator	BKK_FS0618	24-Nov-25	23-Nov-26	12
Noise	Noise Annoyance	Sound Level Meter	BKK_FS0031	21-Jul-25	20-Jul-26	12
Noise	Noise Annoyance	Sound Level Meter	BKK_FS0968	28-Apr-25	28-Apr-26	12
Noise	Noise Annoyance	Sound Level Meter	BKK_FS0096	27-Jan-26	26-Jan-27	12
Noise	Noise Annoyance	Sound Level Meter	BKK_FS0923	15-Jan-26	14-Jan-27	12
Noise	Noise Annoyance	Sound Level Meter	BKK_FS0969	28-Apr-25	28-Apr-26	12
Noise	Noise Annoyance	Sound Level Meter	BKK_FS0023	21-Jul-25	20-Jul-26	12
Noise	Noise Annoyance	Sound Level Meter	BKK_FS0971	28-Apr-25	28-Apr-26	12
Noise	Noise Annoyance	Sound Level Meter	BKK_FS0924	15-Jan-26	14-Jan-27	12
Water Lab	pH at 25 °C	pH meter	BKK_EN0342	9-Oct-25	9-Oct-26	12
Water Lab	Oil & Grease	Electronic Top-Loading Balance	BKK_EN0003	17-Jul-25	17-Jul-26	12
Water Lab	Oil & Grease	Water Bath	BKK_EN0439	9-Oct-25	9-Oct-26	12
Water Lab	Total Suspended Solids	Electronic Top-Loading Balance	BKK_EN0003	17-Jul-25	17-Jul-26	12
Water Lab	Total Suspended Solids	Oven	BKK_EN0425	6-Oct-25	6-Oct-26	12
Water Lab	Conductivity	Conductivity meter	BKK_EN0373	30-Jun-25	30-Jun-26	12
Water Lab	BOD	DO Meter	BKK_EN0205	25-Jul-25	25-Jan-27	18
Water Lab	BOD	Incubator	BKK_EN0272	24-Dec-25	24-Dec-26	12
Water Lab	BOD	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	COD	Hot Block	BKK_EN0370	23-Dec-25	23-Dec-26	12
Water Lab	COD	Spectrophotometer	BKK_EN0356	8-Oct-25	8-Oct-26	12

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	755.0
Calibrate Location :	โรงปูนบางซื่อ	**Temperature (°C) :**	33.1
Calibrate Date :	6-Mar-26	**High Volume ID :**	BKK_FS0379
CalibrationSheet No.:	C-060326-BKK_FS0379	**High Volume Model :**	TE-5009X
Calibrator ID:	BYG_FS0206	**High Volume S/N :**	4158
Calibrator Model :	TE-5028A	**Calibrator Slope :**	0.9219
Calibrator S/N :	1543	**Calibrator Intercept :**	-0.01804

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	1.4	0.827	32		
2	2.0	0.987	36	Slope :	25.0024
3	2.8	1.166	40	Intercept :	11.2015
4	3.6	1.321	44	Correlation Coefficient :	0.9991
5	4.4	1.459	48		



Calibrated by

(Mr. Teerawut Suladee)
BKK Field Services Scientist (2)

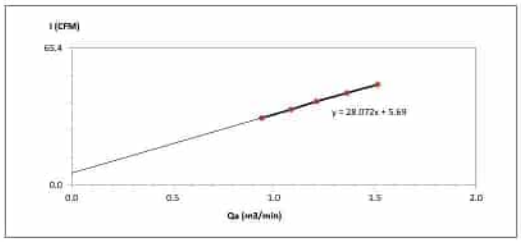
Approved by :

(Mr. Waralorn Poolcrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	749.0
Calibrate Location :	โรงปูนบางซื่อ	**Temperature (°C) :**	33.1
Calibrate Date :	6-Mar-26	**High Volume ID :**	BKK_FS1487
CalibrationSheet No.:	C-060326-BKK_FS1487	**High Volume Model :**	TE-5009X
Calibrator ID:	BYG_FS0206	**High Volume S/N :**	4432
Calibrator Model :	TE-5028A	**Calibrator Slope :**	0.9219
Calibrator S/N :	1543	**Calibrator Intercept :**	-0.01804

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	1.8	0.940	32		
2	2.4	1.084	36	Slope :	28.0725
3	3.0	1.211	40	Intercept :	5.6900
4	3.8	1.362	44	Correlation Coefficient :	0.9995
5	4.7	1.515	48		



Calibrated by

(Mr. Teerawut Suladee)
BKK Field Services Scientist (2)

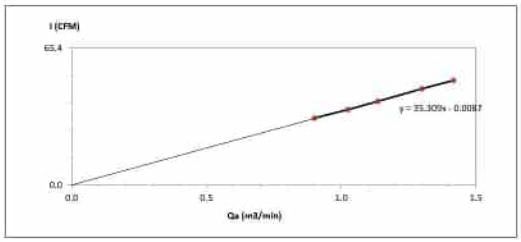
Approved by :

(Mr. Waralorn Poolcrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	743.2
Calibrate Location :	บ้านช่างแรง	**Temperature (°C) :**	37.2
Calibrate Date :	2-Apr-26	**High Volume ID :**	BKK_FS0581
CalibrationSheet No.:	C-020426-BKK_FS0581	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0624	**High Volume S/N :**	4161
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.03094
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.01513

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.0	0.901	32		
2	2.6	1.026	36	Slope :	35.3086
3	3.2	1.136	40	Intercept :	-0.0087
4	4.2	1.299	46	Correlation Coefficient :	0.9998
5	5.0	1.416	50		



Calibrated by

(Mr. Winyou Bountanat)
BKK Field Services Scientist (2)

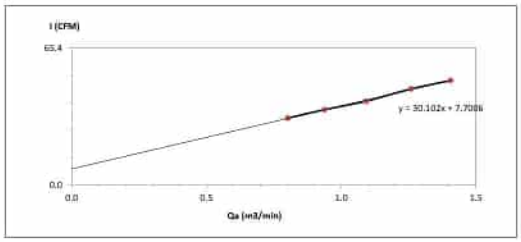
Approved by :

(Mr. Waralorn Poolcrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	752.7
Calibrate Location :	โรงปูนบางซื่อ	**Temperature (°C) :**	36.6
Calibrate Date :	2-Apr-26	**High Volume ID :**	BKK_FS1486
CalibrationSheet No.:	C-020426-BKK_FS1486	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0624	**High Volume S/N :**	4431
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.03094
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.01513

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	1.6	0.802	32		
2	2.2	0.938	36	Slope :	30.1016
3	3.0	1.093	40	Intercept :	7.7006
4	4.0	1.259	46	Correlation Coefficient :	0.9987
5	5.0	1.406	50		



Calibrated by

(Mr. Winyou Bountanat)
BKK Field Services Scientist (2)

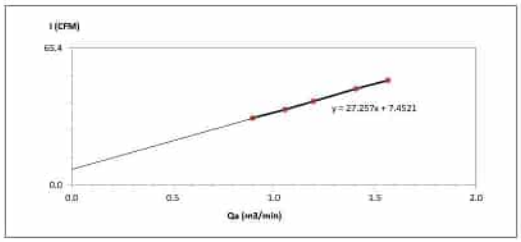
Approved by :

(Mr. Waralorn Poolcrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	752.3
Calibrate Location :	สถานีบำบุงสนับสนุนที่สัตหีบ	**Temperature (°C) :**	36.5
Calibrate Date :	2-Apr-26	**High Volume ID :**	BKK_FS1487
CalibrationSheet No.:	C-020426-BKK_FS1487	**High Volume Model :**	TE-5809X
Calibrater ID:	BKK_PS0624	**High Volume S/N :**	6432
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.03094
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.01512

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.0	0.895	32		
2	2.8	1.256	36	Slope :	27.2568
3	3.6	1.196	40	Intercept :	7.4521
4	5.8	1.406	46	Correlation Coefficient :	0.9997
5	6.2	1.564	50		



Calibrated by Winyou B.

{ Mr. Winyou Boonsanat }
BKK Field Services Scientist (2)

Approved by : Waraikorn P.

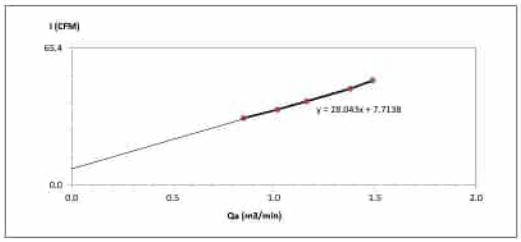
{ Mr. Waraikorn Poolcrak }
Field Services Supervisor

FORM NO.: F 06-074 REVISION NO.:2 ISSUE DATE: 20/11/23

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	752.7
Calibrate Location :	วังน้ำเขียว	**Temperature (°C) :**	37.0
Calibrate Date :	2-Apr-26	**High Volume ID :**	BKK_FS0379
CalibrationSheet No.:	C-020426-BKK_FS0379	**High Volume Model :**	TE-5809X
Calibrater ID:	BKK_PS0624	**High Volume S/N :**	4158
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.03094
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.01512

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	1.8	0.850	32		
2	2.6	1.019	36	Slope :	28.0437
3	3.4	1.163	40	Intercept :	7.7138
4	4.8	1.379	46	Correlation Coefficient :	0.9980
5	5.6	1.488	50		



Calibrated by Winyou B.

{ Mr. Winyou Boonsanat }
BKK Field Services Scientist (2)

Approved by : Waraikorn P.

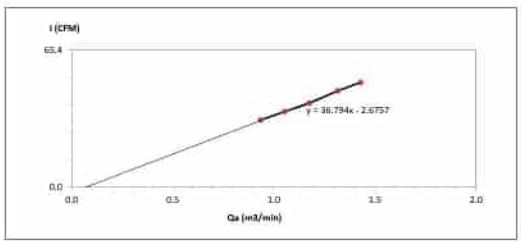
{ Mr. Waraikorn Poolcrak }
Field Services Supervisor

FORM NO.: F 06-074 REVISION NO.:2 ISSUE DATE: 20/11/23

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	755.3
Calibrate Location :	โรงปูนซีเมนต์ไทยเขาหินซ้อน	**Temperature (°C) :**	35.7
Calibrate Date :	5-May-26	**High Volume ID :**	BKK_FS0379
CalibrationSheet No.:	C-030526-BKK_FS0379	**High Volume Model :**	TE-5809X
Calibrater ID:	BKK_PS0624	**High Volume S/N :**	4158
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.03094
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.01512

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.2	0.935	32		
2	2.8	1.853	36	Slope :	36.7936
3	3.5	1.175	40	Intercept :	-2.6757
4	4.4	1.316	46	Correlation Coefficient :	0.9989
5	5.2	1.429	50		



Calibrated by Rommasir

{ Mr. Prommee Sriputnet }
BKK Field Services Scientist (2)

Approved by : Waraikorn P.

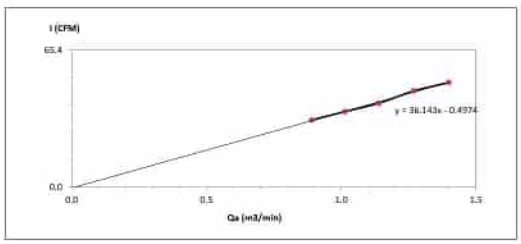
{ Mr. Waraikorn Poolcrak }
Field Services Supervisor

FORM NO.: F 06-074 REVISION NO.:2 ISSUE DATE: 20/11/23

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	755.3
Calibrate Location :	บ้านเขาชีจ้น	**Temperature (°C) :**	34.8
Calibrate Date :	5-May-26	**High Volume ID :**	BKK_FS0375
CalibrationSheet No.:	C-030526-BKK_FS0375	**High Volume Model :**	TE-5809X
Calibrater ID:	BKK_PS0624	**High Volume S/N :**	5196
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.03094
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.01512

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.0	0.891	32		
2	2.6	1.814	36	Slope :	36.1432
3	3.3	1.148	40	Intercept :	-0.4974
4	4.1	1.269	46	Correlation Coefficient :	0.9976
5	5.0	1.400	50		



Calibrated by Rommasir

{ Mr. Prommee Sriputnet }
BKK Field Services Scientist (2)

Approved by : Waraikorn P.

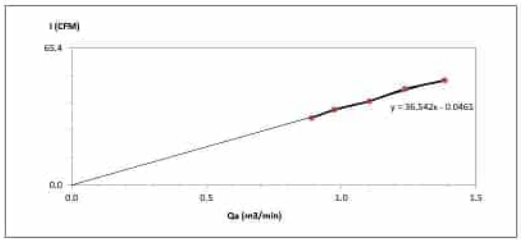
{ Mr. Waraikorn Poolcrak }
Field Services Supervisor

FORM NO.: F 06-074 REVISION NO.:2 ISSUE DATE: 20/11/23

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	755.3
Calibrate Location :	โรงปูนท่าหิน	**Temperature (°C) :**	34.2
Calibrate Date :	8-May-26	**High Volume ID :**	BKK_FS1487
CalibrationSheet No.:	C-030526-BKK_FS1487	**High Volume Model :**	TE-5809X
Calibrater ID:	BKK_PS0624	**High Volume S/N :**	6432
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.03094
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.01512

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.0	0.890	32	Slope :	36.5416
2	2.4	0.973	36	Intercept :	-0.0461
3	3.1	1.104	40	Correlation Coefficient :	0.9963
4	3.8	1.237	46		
5	4.9	1.384	50		



Calibrated by : Rommasir

{ Mr. Prommee Sripatmet }
BKK Field Services Scientist (2)

Approved by : Narakorn P.

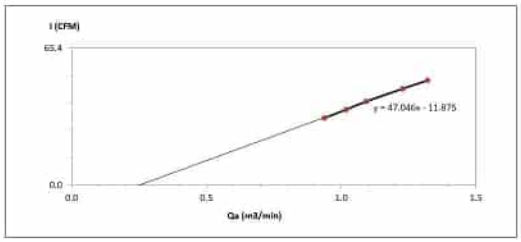
{ Mr. Waralorn Poolcrak }
Field Services Supervisor

FORM NO.: F 06-074 REVISION NO.:2 ISSUE DATE: 20/11/23

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	752.7
Calibrate Location :	โรงงานกลาง (โม่ถนนสมิทธิ์)	**Temperature (°C) :**	36.8
Calibrate Date :	8-May-26	**High Volume ID :**	BKK_FS1486
CalibrationSheet No.:	C-030526-BKK_FS1486	**High Volume Model :**	TE-5809X
Calibrater ID:	BKK_PS0624	**High Volume S/N :**	6431
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.03094
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.01512

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.2	0.938	32	Slope :	47.0457
2	2.6	1.019	36	Intercept :	-11.8751
3	3.0	1.093	40	Correlation Coefficient :	0.9992
4	3.8	1.228	46		
5	4.4	1.320	50		



Calibrated by : Rommasir

{ Mr. Prommee Sripatmet }
BKK Field Services Scientist (2)

Approved by : Narakorn P.

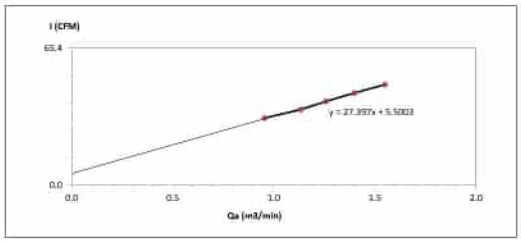
{ Mr. Waralorn Poolcrak }
Field Services Supervisor

FORM NO.: F 06-074 REVISION NO.:2 ISSUE DATE: 20/11/23

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	751.3
Calibrate Location :	สถานีไฟฟ้าแรงสูง (ธีระปี)	**Temperature (°C) :**	32.6
Calibrate Date :	11-Jun-26	**High Volume ID :**	BKK_FS1486
CalibrationSheet No.:	C-110626-BKK_FS1486	**High Volume Model :**	TE-5809X
Calibrater ID:	BKK_PS0625	**High Volume S/N :**	6431
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.05044
Calibrator S/N :	2585	**Calibrator Intercept :**	-0.01426

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.4	0.955	32	Slope :	27.3970
2	3.4	1.134	36	Intercept :	5.5083
3	4.1	1.259	40	Correlation Coefficient :	0.9985
4	5.2	1.399	44		
5	6.4	1.550	48		



Calibrated by : Jatsarawut

{ Mr. Jatsarawut Pattama }
BKK Field Services Scientist (2)

Approved by : Narakorn P.

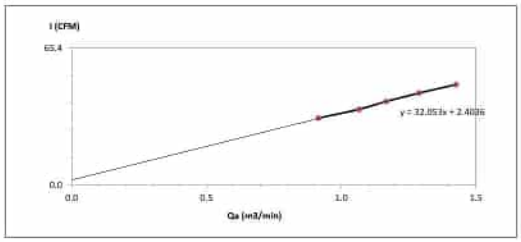
{ Mr. Waralorn Poolcrak }
Field Services Supervisor

FORM NO.: F 06-074 REVISION NO.:2 ISSUE DATE: 20/11/23

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	751.3
Calibrate Location :	ไลม์สันดิบ	**Temperature (°C) :**	33.1
Calibrate Date :	11-Jun-26	**High Volume ID :**	BKK_PS0379
CalibrationSheet No.:	C-110626-BKK_FS0379	**High Volume Model :**	TE-5809X
Calibrater ID:	BKK_PS0625	**High Volume S/N :**	4158
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.05044
Calibrator S/N :	2585	**Calibrator Intercept :**	-0.01426

Test No.	Delta H_2O (inch)	Qa (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.2	0.916	32	Slope :	32.0532
2	3.0	1.067	36	Intercept :	2.4036
3	3.6	1.167	40	Correlation Coefficient :	0.9983
4	4.4	1.289	44		
5	5.4	1.426	48		



Calibrated by : Jatsarawut

{ Mr. Jatsarawut Pattama }
BKK Field Services Scientist (2)

Approved by : Narakorn P.

{ Mr. Waralorn Poolcrak }
Field Services Supervisor

FORM NO.: F 06-074 REVISION NO.:2 ISSUE DATE: 20/11/23

SARTORIUS

Accredited by

NSC-TISI-TIS 17025

Calibration 0426

NSC-TISI-TIS 17025
CALIBERATION 0426

Calibration certificate

Calibration Certificate No. 25BCI0197

Object	Electronic non-automatic weighing instrument
Manufacturer	Ohaus
Type	EX225D/AD
Serial | QM Ident. no.	C309774648 | BKK_EN0403
Customer	ALS Laboratory Group (Thailand)Co., Ltd.
	104 Phatthanakarn 40,Phattanakarn Rd.,Khwaeng Phatthanakarn ,Khet Suan Luang,Bangkok 10250
Order no.	261969
Number of pages	6
Date of calibration	30 May 2025

This calibration certificate documents the traceability to national standards.

Uncertainties of measurements are taken into account when only statements of compliance are made.

This certificate was prepared by Sartorius Corporation in accordance to the current ISO/IEC 17025:2017 standard and Sartorius Work Instruction (Method) SOP WI 08.

This certificate relate and apply this equipment only.

REVIEW BY Jinda K

APPROVED BY Sirilk P

NEXT CAL DATE 30/05/26

This calibration certificate may not be reproduced other than in full except with the permission of NSC-TISI-TIS-17025 and the issuing laboratory. Calibration certificates without signature are not valid.

The user is obliged to have the object recalibrated at appropriate intervals.

Date	Approval of the Calibration Certificate	Person in charge
30 May 2025	Mr. Chonchai Inthana	Chonchai Inthana

Calibration object

Multi range instrument

Model	EX225D/AD	
Serial Number	C309774648	
QM Ident. no | Inventory no.	BKK_EN0403 | ---	
Range	1	2
Maximum capacity (Max. load)	120.00000 g	220.0000 g
Measured range	120.00000 g	220.0000 g
Scale interval	0.00001 g	0.0001 g

Place of calibration

Address	According to page 1
Department | Cost center	Environment Department. | ---
Building | Floor	--- | 1st Floor.
Room	Laboratory Room.
Maximum temperature variation at place of calibration	5 K

Calibration procedure

EURAMET cg-18, V4.0 - Guidelines on the Calibration of Non-Automatic Weighing Instruments

Test equipment

Test equipment type	Test equipment ID	Valid until
Thermometer	Testo 174(Traceable to Si unit through ENTECH)	11 Nov 2025
Test weight set OIML R111 E2	Certificate No.M2308197S ,E2(Traceable to SI unit through TCS)	23 Aug 2025

Range 1

Adjustment Status

The measuring device was internally adjusted before the calibration.

Environmental and measuring conditions

Date of calibration	30 May 2025
Temperature at place of calibration | Temp. diff. $T_{weights} - T_{place}$	21.7 °C | 0.5 K
Measuring conditions	The installation site is suitable. The device was levelled. Balance was loaded up to Max before test.
Comments	Humidity 60.0 %RH.

Measurement results | Measurement uncertainties

Repeatability

Test load (nominal): 1 g | 100 g		
	1 g	100 g
1	0.99993 g	99.99971 g
2	0.99991 g	99.99971 g
3	0.99992 g	99.99974 g
4	0.99993 g	99.99973 g
5	0.99992 g	99.99974 g
6	0.99991 g	99.99970 g
7	0.99993 g	99.99973 g
8	0.99994 g	99.99972 g
9	0.99995 g	99.99971 g
10	0.99995 g	99.99969 g
	s = 0.000014 g	s = 0.000017 g

Eccentricity

Test load (nominal):	50 g
Center	49.99996 g
Front left	49.99993 g
Back left	49.99993 g
Back right	49.99994 g
Front right	49.99990 g
Maximum deviation from centric loading indication	
$\lvert \Delta I_{ecc} \rvert_{max}$ = 0.00006 g	

Error of indication

Testload L	Indication I	Error E	Expansion factor k	Uncertainty U(E)	Uncertainty relative $U_{rel}(E)$
0.00000 g	0.00000 g	0.00000 g	2.00	0.000030 g	---
0.01000 g	0.00995 g	-0.00005 g	2.00	0.000037 g	0.37 %
0.10000 g	0.09991 g	-0.00009 g	2.00	0.000038 g	0.038 %
0.50000 g	0.49985 g	-0.00015 g	2.00	0.000040 g	0.0080 %
1.00000 g	0.99991 g	-0.00009 g	2.00	0.000041 g	0.0041 %
5.00002 g	4.99997 g	-0.00005 g	2.00	0.000050 g	0.0010 %
10.00002 g	10.00003 g	0.00001 g	2.00	0.000089 g	0.00089 %
50.00002 g	49.99972 g	-0.00030 g	2.00	0.000091 g	0.00018 %
70.00004 g	69.99975 g	-0.00029 g	2.00	0.00017 g	0.00024 %
100.00001 g	99.99958 g	-0.00043 g	2.00	0.00017 g	0.00017 %
115.00006 g	114.99966 g	-0.00040 g	2.00	0.00028 g	0.00024 %
Maximum error of indication		$\lvert E \rvert_{max}$ = 0.00043 g			

$U_{rel}(E)$ is the quotient of $U(E)$ and test load L. The uncertainty of measurement $U(E)$ is valid only if error E is considered. You will find reference notes on the uncertainty of measurement in use under: Appendix to the calibration certificate | Interpretation of measurement results.
Reference note: The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the documented Expansion factor, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

Range 2

Adjustment Status

The measuring device was internally adjusted before the calibration.

Environmental and measuring conditions

Date of calibration	30 May 2025
Temperature at place of calibration | Temp. diff. $T_{weights} - T_{place}$	21.7 °C | 0.5 K
Measuring conditions	The installation site is suitable. The device was levelled. Balance was loaded up to Max before test.
Comments	Humidity 60.0 %RH.

Measurement results | Measurement uncertainties

Repeatability

Test load (nominal): 200 g	
	200 g
1	199.9998 g
2	199.9998 g
3	199.9998 g
4	200.0000 g
5	199.9998 g
6	199.9999 g
7	199.9999 g
8	200.0000 g
9	199.9998 g
10	199.9999 g
	s = 0.00006 g

Eccentricity

Test load (nominal):	100 g
Center	99.99984 g
Front left	99.99990 g
Back left	99.99983 g
Back right	99.99979 g
Front right	99.99979 g
Maximum deviation from centric loading indication	
$\lvert \Delta I_{ecc} \rvert_{max}$ = 0.00006 g	

Error of indication

Testload L	Indication I	Error E	Expansion factor k	Uncertainty U(E)	Uncertainty relative $U_{rel}(E)$
0.00000 g	0.00000 g	0.00000 g	2.00	0.000030 g	---
20.00002 g	19.99986 g	-0.00016 g	2.00	0.000069 g	0.00034 %
50.00002 g	49.99978 g	-0.00024 g	2.00	0.000091 g	0.00018 %
70.00004 g	69.99981 g	-0.00023 g	2.00	0.00017 g	0.00024 %
90.00007 g	89.99976 g	-0.00031 g	2.00	0.00018 g	0.00020 %
110.00003 g	109.99986 g	-0.00017 g	2.00	0.00028 g	0.00025 %
130.0001 g	129.9999 g	-0.0002 g	2.00	0.00028 g	0.00022 %
150.0002 g	149.9999 g	-0.0001 g	2.00	0.00028 g	0.00019 %
170.0000 g	170.0000 g	0.0000 g	2.00	0.00028 g	0.00016 %
200.0000 g	199.9998 g	-0.0002 g	2.00	0.00028 g	0.00014 %
220.0000 g	219.9999 g	-0.0001 g	2.00	0.00029 g	0.00013 %
Maximum error of indication		$\lvert E \rvert_{max}$ = 0.0003 g			

$U_{rel}(E)$ is the quotient of $U(E)$ and test load L. The uncertainty of measurement $U(E)$ is valid only if error E is considered. You will find reference notes on the uncertainty of measurement in use under: Appendix to the calibration certificate | Interpretation of measurement results.
Reference note: The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the documented Expansion factor, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

End of calibration certificate

Uncertainty of measurement in use

Range 1

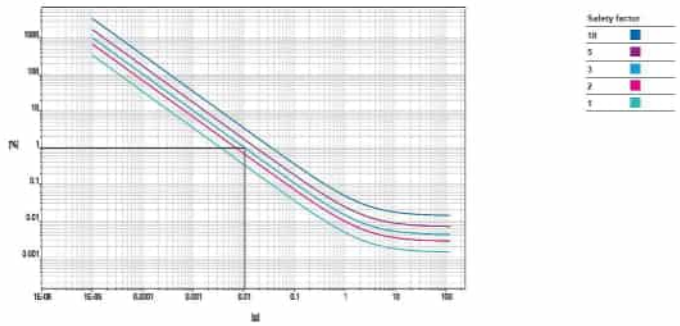
Device adjusted before measurement	Yes
Temperature deviation considered	5 K
Temperature coefficient considered	2 · 10⁻⁶/K

Uncertainty of the weighing result $U_{BI}(W)$ $U_{BI}(W) = 0.000035\ g + 1.38 \cdot 10^{-6} \cdot R$

Reference note: The current uncertainty of measurement is calculated by entering of the reading R into this formula. In relation to this, there is no need for a correction of the indication error. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied with an Expansion factor of 2, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

Indication in % from max load	Net indication R	Uncertainty $U_{BI}(W)$	Uncertainty relative $U_{BI}(W)_{rel}$
1 %	1.20000 g	0.000052 g	0.0043 %
25 %	30.00000 g	0.00045 g	0.0015 %
50 %	60.00000 g	0.00086 g	0.0014 %
75 %	90.00000 g	0.0013 g	0.0014 %
100 %	120.00000 g	0.0017 g	0.0014 %

Graphic realization of the relative uncertainty of measurement | process accuracy



Displayed example

Process accuracy	1.00 %
Safety factor	3
Minimum sample weight	0.01045 g

Uncertainty of measurement in use

Range 2

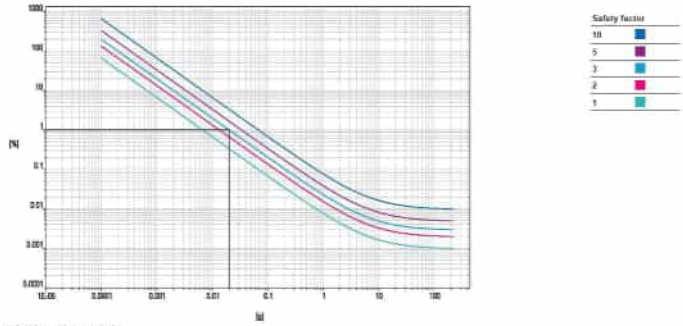
Device adjusted before measurement	Yes
Temperature deviation considered	5 K
Temperature coefficient considered	2 · 10⁻⁶/K

Uncertainty of the weighing result $U_{BI}(W)$ $U_{BI}(W) = 0.000067\ g + 9.52 \cdot 10^{-6} \cdot R$

Reference note: The current uncertainty of measurement is calculated by entering of the reading R into this formula. In relation to this, there is no need for a correction of the indication error. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied with an Expansion factor of 2, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

Indication in % from max load	Net indication R	Uncertainty $U_{BI}(W)$	Uncertainty relative $U_{BI}(W)_{rel}$
1 %	2.20000 g	0.000088 g	0.0040 %
25 %	55.00000 g	0.00059 g	0.0011 %
50 %	110.00000 g	0.0011 g	0.0010 %
75 %	165.0000 g	0.0016 g	0.00099 %
100 %	220.0000 g	0.0022 g	0.00099 %

Graphic realization of the relative uncertainty of measurement | process accuracy



Displayed example

Process accuracy	1.00 %
Safety factor	3
Minimum sample weight	0.02019 g

SARTORIUS

Accredited by

NSC-TISI-TIS 17025
Calibration 0426

NSC-TISI-TIS 17025
CALIBRATION 0426

Calibration certificate

Calibration Certificate No. 26BCI0207

Object	Electronic non-automatic weighing instrument
Manufacturer	Ohaus
Type	EX225D/AD
Serial | QM Ident. no.	C309774648 | BKK_EN0403
Customer	ALS Laboratory Group (Thailand)Co., Ltd.
	104 Phatthanakarn 40,Phattanakarn Rd.,Khwaeng Phatthanakarn ,Khet Suan Luang,Bangkok 10250
Order no.	286598
Number of pages	6
Date of calibration	28 May 2026

This calibration certificate documents the traceability to national standards.

Uncertainties of measurements are taken into account when only statements of compliance are made.

This certificate was prepared by Sartorius Corporation in accordance to the current ISO/IEC 17025:2017 standard and Sartorius Work Instruction (Method) SOP WI 08.

This certificate relate and apply this equipment only.

REVIEW BY Jinda K

APPROVED BY Siriluk P

NEXT CAL DATE 28/05/27

This calibration certificate may not be reproduced other than in full except with the permission of NSC-TISI-TIS-17025 and the issuing laboratory. Calibration certificates without signature are not valid.

The user is obliged to have the object recalibrated at appropriate intervals.

Date of issue	Approval of the Calibration Certificate	Person in charge
28 May 2026	Mr. Chonchai Inthana	Chonchai Inthana

Calibration certificate No.: **26BCI0207**

Calibration Certificate

Calibration object

Multi range instrument

Model	EX225D/AD	
Serial Number	C309774648	
QM Ident. no | Inventory no.	BKK_EN0403 | ---	
Range	1	2
Maximum capacity (Max. load)	120.00000 g	220.0000 g
Measured up to	120.00000 g	220.0000 g
Scale interval	0.00001 g	0.0001 g

Place of calibration

Address	According to page 1
Department | Cost center	Environment Department. | ---
Building | Floor	--- | 1st Floor.
Room	Laboratory Room.
Maximum temperature variation at place of calibration	5 K

Calibration procedure

EURAMET Calibration Guide No. 18, Version 4.0 (11/2015) - Guidelines on the Calibration of Non-Automatic Weighing Instruments

Test equipment

Test equipment type	Test equipment ID	Valid until
Thermometer	Testo 174H H/T250743 (Traceable to SI unit through ENTECH)	18 Nov 2026
Test weight set OIML R111 E2	Certificate No.M2508149S ,E2(Traceable to SI unit through TCS)	19 Aug 2027

Range 1

Adjustment Status

The measuring device was internally adjusted before the calibration.

Environmental and measuring conditions

Date of calibration	28 May 2026
Temperature at place of calibration | Temp. diff. $T_{weights}$ - T_{place}	23.2 °C | 0.8 K
Measuring conditions	The installation site is suitable. The device is level. Balance was loaded up to Max before test.
Comments	Humidity 50.0 %RH.

Measurement results | Measurement uncertainties

Repeatability

Test load (nominal): 1 g | 100 g	1 g	100 g
1	1.00000 g	99.99997 g
2	1.00000 g	99.99996 g
3	1.00000 g	99.99999 g
4	1.00001 g	99.99998 g
5	0.99999 g	99.99999 g
6	0.99999 g	99.99997 g
7	1.00000 g	99.99996 g
8	1.00002 g	99.99998 g
9	1.00000 g	99.99997 g
10	1.00000 g	99.99998 g
	s = 0.000009 g	s = 0.000011 g

Eccentricity

Test load (nominal):	50 g
Center	50.00001 g
Front left	50.00004 g
Back left	50.00003 g
Back right	50.00000 g
Front right	50.00002 g
Maximum deviation from centric loading indication	
$\lvert\Delta I_{ecc}\rvert_{max}$ = 0.00003 g	

Error of indication

Testload L	Indication I	Error E	Expansion factor k	Uncertainty $U(E)$	Uncertainty relative $U_{rel}(E)$
0.00000 g	0.00000 g	0.00000 g	2.00	0.000018 g	---
0.01000 g	0.01000 g	0.00000 g	2.00	0.000026 g	0.26 %
0.10000 g	0.10001 g	0.00001 g	2.00	0.000037 g	0.037 %
0.50000 g	0.49999 g	-0.00001 g	2.00	0.000037 g	0.0074 %
1.00000 g	0.99999 g	-0.00001 g	2.00	0.000037 g	0.0037 %
5.00002 g	5.00002 g	0.00000 g	2.00	0.000050 g	0.0010 %
10.00001 g	10.00001 g	0.00000 g	2.00	0.000069 g	0.00069 %
50.00001 g	50.00002 g	0.00001 g	2.00	0.000091 g	0.00018 %
70.00000 g	70.00000 g	0.00000 g	2.00	0.00017 g	0.00024 %
99.99997 g	100.00000 g	0.00003 g	2.00	0.00017 g	0.00017 %
115.00001 g	115.00001 g	0.00000 g	2.00	0.00026 g	0.00024 %
Maximum error of indication		$\lvert E\rvert_{max}$ = 0.00003 g			

$U_{rel}(E)$ is the quotient of $U(E)$ and test load L. The uncertainty of measurement $U(E)$ is valid only if error E is considered. You will find reference notes on the uncertainty of measurement in use under: Appendix to the calibration certificate | Interpretation of measurement results.
Reference note: The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the documented Expansion factor, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.2. There is a 95 % probability that the value of the measurand will be in the assigned value range.

Range 2

Adjustment Status

The measuring device was internally adjusted before the calibration.

Environmental and measuring conditions

Date of calibration	28 May 2026
Temperature at place of calibration | Temp. diff. $T_{weights}$ - T_{place}	23.2 °C | 0.8 K
Measuring conditions	The installation site is suitable. The device is level. Balance was loaded up to Max before test.
Comments	Humidity 50.0 %RH.

Measurement results | Measurement uncertainties

Repeatability

Test load (nominal): 200 g	200 g
1	200.0000 g
2	200.0000 g
3	200.0000 g
4	200.0001 g
5	200.0001 g
6	200.0002 g
7	200.0001 g
8	200.0001 g
9	200.0000 g
10	200.0001 g
	s = 0.00007 g

Eccentricity

Test load (nominal):	100 g
Center	99.99996 g
Front left	100.00000 g
Back left	99.99999 g
Back right	99.99992 g
Front right	100.00000 g
Maximum deviation from centric loading indication	
$\lvert\Delta I_{ecc}\rvert_{max}$ = 0.00004 g	

Error of indication

Testload L	Indication I	Error E	Expansion factor k	Uncertainty $U(E)$	Uncertainty relative $U_{rel}(E)$
0.00000 g	0.00000 g	0.00000 g	2.00	0.000018 g	---
19.99999 g	19.99999 g	0.00000 g	2.00	0.000089 g	0.00035 %
50.00001 g	50.00003 g	0.00002 g	2.00	0.000091 g	0.00018 %
70.00000 g	70.00002 g	0.00002 g	2.00	0.00017 g	0.00024 %
99.99997 g	100.00004 g	0.00007 g	2.00	0.00017 g	0.00018 %
109.99999 g	110.00004 g	0.00005 g	2.00	0.00028 g	0.00025 %
130.0000 g	130.0000 g	0.0000 g	2.00	0.00028 g	0.00022 %
150.0000 g	150.0001 g	0.0001 g	2.00	0.00028 g	0.00019 %
170.0000 g	170.0002 g	0.0002 g	2.00	0.00028 g	0.00016 %
200.0000 g	200.0002 g	0.0002 g	2.00	0.00028 g	0.00014 %
220.0000 g	220.0002 g	0.0002 g	2.00	0.00028 g	0.00013 %
Maximum error of indication		$\lvert E\rvert_{max}$ = 0.0002 g			

$U_{rel}(E)$ is the quotient of $U(E)$ and test load L. The uncertainty of measurement $U(E)$ is valid only if error E is considered. You will find reference notes on the uncertainty of measurement in use under: Appendix to the calibration certificate | Interpretation of measurement results.
Reference note: The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the documented Expansion factor, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.2. There is a 95 % probability that the value of the measurand will be in the assigned value range.

End of calibration certificate

Uncertainty of measurement in use

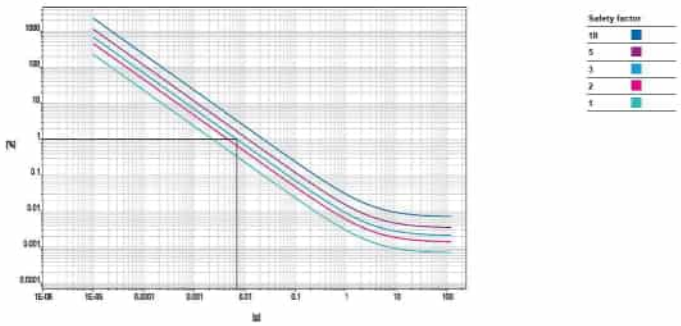
Range 1

Device adjusted before measurement	Yes
Temperature deviation considered	5 K
Temperature coefficient considered	2 · 10⁻⁶/K
Uncertainty of the weighing result $U_{gl}(W)$	**$U_{gl}(W)$ = 0.000023 g + 6.96 · 10⁻⁶ · R**

Reference note: The current uncertainty of measurement is calculated by entering of the reading R into this formula. In relation to this, there is no need for a correction of the indication error. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied with an Expansion factor of 2, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

Indication in % from max load	Net indication R	Uncertainty $U_{gl}(W)$	Uncertainty relative $U_{gl}(W)_{rel}$
1 %	1.20000 g	0.000031 g	0.0026 %
25 %	30.00000 g	0.00023 g	0.00077 %
50 %	60.00000 g	0.00044 g	0.00073 %
75 %	90.00000 g	0.00065 g	0.00072 %
100 %	120.00000 g	0.00086 g	0.00072 %

Graphic realization of the relative uncertainty of measurement | process accuracy



Displayed example

Process accuracy	1.00 %
Safety factor	3
Minimum sample weight	0.00694 g

Uncertainty of measurement in use

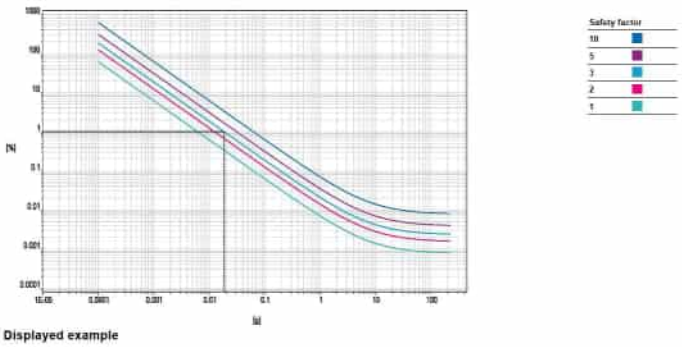
Range 2

Device adjusted before measurement	Yes
Temperature deviation considered	5 K
Temperature coefficient considered	2 · 10⁻⁶/K
Uncertainty of the weighing result $U_{gl}(W)$	**$U_{gl}(W)$ = 0.000062 g + 7.76 · 10⁻⁶ · R**

Reference note: The current uncertainty of measurement is calculated by entering of the reading R into this formula. In relation to this, there is no need for a correction of the indication error. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied with an Expansion factor of 2, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

Indication in % from max load	Net indication R	Uncertainty $U_{gl}(W)$	Uncertainty relative $U_{gl}(W)_{rel}$
1 %	2.20000 g	0.000079 g	0.0036 %
25 %	55.00000 g	0.00049 g	0.00089 %
50 %	110.00000 g	0.00092 g	0.00083 %
75 %	165.0000 g	0.0013 g	0.00081 %
100 %	220.0000 g	0.0018 g	0.00080 %

Graphic realization of the relative uncertainty of measurement | process accuracy



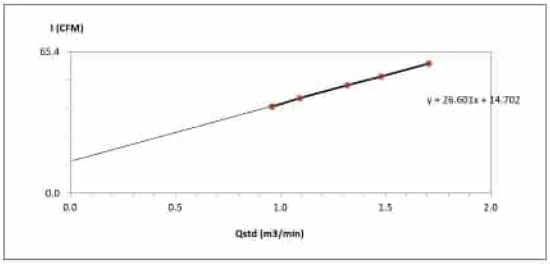
Displayed example

Process accuracy	1.00 %
Safety factor	3
Minimum sample weight	0.01862 g

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	755.0
Calibrate Location :	วังหินปูนวาน	**Temperature (°C) :**	33.1
Calibrate Date :	6-Mar-26	**High Volume ID :**	BKK_FS1375
CalibrationSheet No.:	C-060326-BKK_FS1375	**High Volume Model :**	TE-5009X
Calibrator ID:	RYG_FS0206	**High Volume S/N :**	6256
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.4719
Calibrator S/N :	1543	**Calibrator Interrept :**	-0.01614

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.0	0.9610	40	Slope :	26.8013
2	2.6	1.0935	44	Intercept :	14.7023
3	3.8	1.3186	50	Correlation Coefficient :	0.9996
4	4.8	1.4799	54		
5	6.4	1.7064	60		



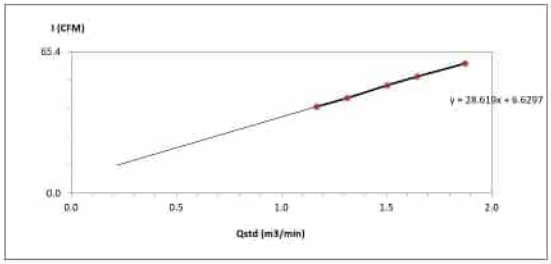
Calibrated by : (Mr. Teeravut Sukdee)
BKK Field Services Scientist (2)

Approved by : (Mr. Waraborn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	749.0
Calibrate Location :	วังหินปูนระยอง	**Temperature (°C) :**	33.1
Calibrate Date :	6-Mar-26	**High Volume ID :**	BKK_FS1485
CalibrationSheet No.:	C-060326-BKK_FS1485	**High Volume Model :**	TE-5009X
Calibrator ID:	RYG_FS0206	**High Volume S/N :**	6430
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.4719
Calibrator S/N :	1543	**Calibrator Interrept :**	-0.01614

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	3.0	1.1688	40	Slope :	28.6192
2	3.8	1.3134	44	Intercept :	6.6297
3	5.0	1.5842	50	Correlation Coefficient :	0.9994
4	6.0	1.6462	54		
5	7.8	1.8747	60		



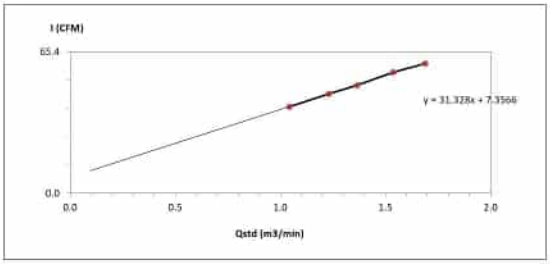
Calibrated by : (Mr. Teeravut Sukdee)
BKK Field Services Scientist (2)

Approved by : (Mr. Waraborn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	743.2
Calibrate Location :	บ้านหินปูนเขา	**Temperature (°C) :**	37.2
Calibrate Date :	2-Apr-26	**High Volume ID :**	BKK_FS0262
CalibrationSheet No.:	C-020426-BKK_FS0362	**High Volume Model :**	G1051
Calibrator ID:	BKK_FS0624	**High Volume S/N :**	1452
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.64590
Calibrator S/N :	2584	**Calibrator Interrept :**	-0.02439

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	3.0	1.0443	40	Slope :	31.3282
2	4.2	1.2312	46	Intercept :	7.3566
3	5.2	1.3672	50	Correlation Coefficient :	0.9993
4	6.6	1.5372	56		
5	8.0	1.6899	60		



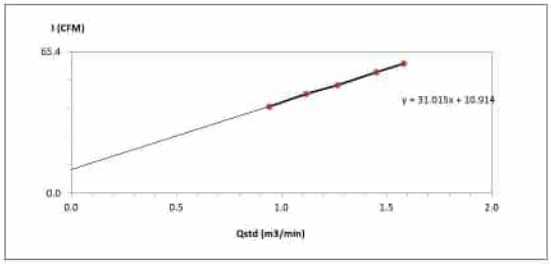
Calibrated by : (Mr. Winyou Boontanai)
BKK Field Services Scientist (2)

Approved by : (Mr. Waraborn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	752.7
Calibrate Location :	ไร่เลื่อนอนุบาลหินกอง	**Temperature (°C) :**	36.6
Calibrate Date :	2-Apr-26	**High Volume ID :**	BKK_FS1484
CalibrationSheet No.:	C-020426-BKK_FS1484	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0624	**High Volume S/N :**	6429
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.64590
Calibrator S/N :	2584	**Calibrator Interrept :**	-0.02439

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.4	0.9433	40	Slope :	31.0148
2	3.4	1.1182	46	Intercept :	10.9142
3	4.4	1.2686	50	Correlation Coefficient :	0.9995
4	5.8	1.4529	56		
5	6.9	1.5825	60		



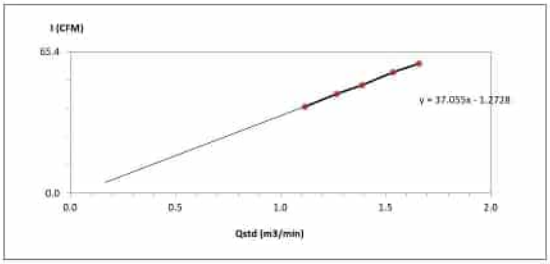
Calibrated by : (Mr. Winyou Boontanai)
BKK Field Services Scientist (2)

Approved by : (Mr. Waraborn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	752.3
Calibrate Location :	สถานีปางหินฝั่งศิลป์	**Temperature (°C) :**	36.5
Calibrate Date :	2-Apr-26	**High Volume ID :**	BKK_FS1485
CalibrationSheet No.:	C-020426-BKK_FS1485	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0634	**High Volume S/N :**	6430
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.64590
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.02439

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	3.4	1.1180	40	Slope :	37.0550
2	4.4	1.2685	46	Intercept :	-1.2728
3	5.3	1.3898	50	Correlation Coefficient :	0.9994
4	6.5	1.5365	56		
5	7.6	1.6595	60		



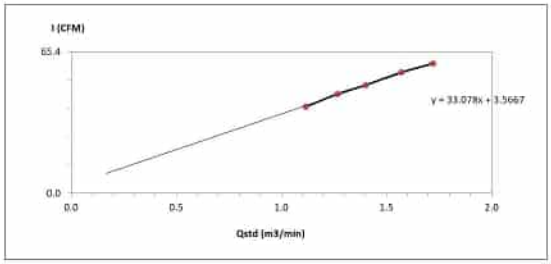
Calibrated by : Winyou B.
(Mr. Winyou Boontanai)
RKK Field Services Scientist (2)

Approved by : Warahorn P.
(Mr. Warahorn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	752.7
Calibrate Location :	วัดท้ายเกา	**Temperature (°C) :**	37.0
Calibrate Date :	2-Apr-26	**High Volume ID :**	BKK_FS1375
CalibrationSheet No.:	C-020426-BKK_FS1375	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0634	**High Volume S/N :**	6256
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.64590
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.02439

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	3.4	1.1174	40	Slope :	33.0775
2	4.4	1.2678	46	Intercept :	3.5667
3	5.4	1.4819	50	Correlation Coefficient :	0.9979
4	6.8	1.5702	56		
5	8.2	1.7219	60		



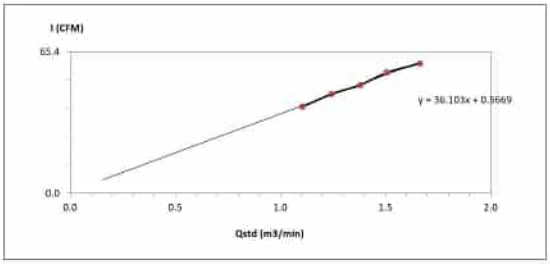
Calibrated by : Winyou B.
(Mr. Winyou Boontanai)
RKK Field Services Scientist (2)

Approved by : Warahorn P.
(Mr. Warahorn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	755.3
Calibrate Location :	โรงเรียนชุมชนนิคมหนองคายสงเคราะห์	**Temperature (°C) :**	35.7
Calibrate Date :	3-May-26	**High Volume ID :**	BKK_FS1375
CalibrationSheet No.:	C-030526-BKK_FS1375	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0634	**High Volume S/N :**	6256
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.64590
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.02439

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	3.3	1.1054	40	Slope :	36.1025
2	4.2	1.2439	46	Intercept :	0.5669
3	5.2	1.3813	50	Correlation Coefficient :	0.9955
4	6.2	1.5061	56		
5	7.6	1.6649	60		



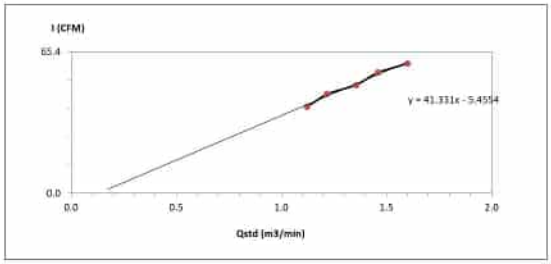
Calibrated by : Prommee S.
(Mr. Prommee Sripatnet)
RKK Field Services Scientist (2)

Approved by : Warahorn P.
(Mr. Warahorn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	755.3
Calibrate Location :	บ้านหนองสิม	**Temperature (°C) :**	34.8
Calibrate Date :	3-May-26	**High Volume ID :**	BKK_FS1058
CalibrationSheet No.:	C-030526-BKK_FS1058	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0634	**High Volume S/N :**	5689
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.64590
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.02439

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	3.4	1.1232	40	Slope :	41.3307
2	4.0	1.2163	46	Intercept :	-5.4554
3	5.0	1.3569	50	Correlation Coefficient :	0.9909
4	5.8	1.4596	56		
5	7.0	1.6011	60		



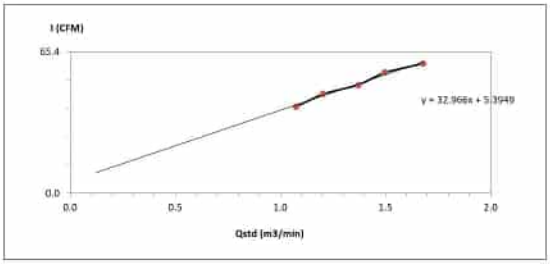
Calibrated by : Prommee S.
(Mr. Prommee Sripatnet)
RKK Field Services Scientist (2)

Approved by : Warahorn P.
(Mr. Warahorn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	755.3
Calibrate Location :	โรงปูนปากช่อง	**Temperature (°C) :**	34.2
Calibrate Date :	3-May-26	**High Volume ID :**	BKK_FS1485
CalibrationSheet No.:	C-030526-BKK_FS1485	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0624	**High Volume S/N :**	6430
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.64598
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.02439

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	3.1	1.0747	40	Slope :	32.9663
2	3.9	1.2924	46	Intercept :	5.3949
3	5.1	1.5715	50	Correlation Coefficient :	0.9918
4	6.1	1.4977	56		
5	7.7	1.6797	60		



Calibrated by : Prommee S.

(Mr. Prommee Sripatnet)
BKK Field Services Scientist (2)

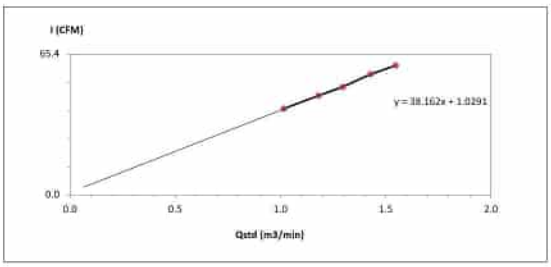
Approved by : Warakorn P.

(Mr. Warakorn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	752.7
Calibrate Location :	วัดอรุณราชวราราม (วัดแจ้งนอก)	**Temperature (°C) :**	36.8
Calibrate Date :	3-May-26	**High Volume ID :**	BKK_FS1484
CalibrationSheet No.:	C-030526-BKK_FS1484	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0624	**High Volume S/N :**	6429
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.64598
Calibrator S/N :	2584	**Calibrator Intercept :**	-0.02439

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	2.8	1.0166	40	Slope :	38.1618
2	3.8	1.1803	46	Intercept :	1.0291
3	4.6	1.2962	50	Correlation Coefficient :	0.9989
4	5.6	1.4276	56		
5	6.6	1.5478	60		



Calibrated by : Prommee S.

(Mr. Prommee Sripatnet)
BKK Field Services Scientist (2)

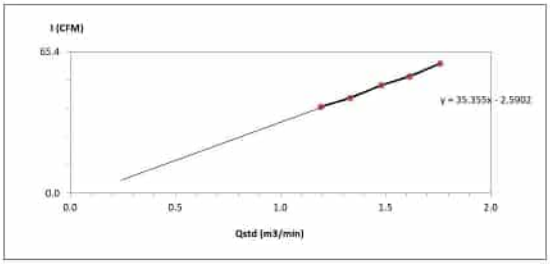
Approved by : Warakorn P.

(Mr. Warakorn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	751.3
Calibrate Location :	สถานีโทรศัพท์แจ้งสุข (สระบุรี)	**Temperature (°C) :**	32.6
Calibrate Date :	11-Jun-26	**High Volume ID :**	BKK_FS1484
CalibrationSheet No.:	C-110626-BKK_FS1484	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0625	**High Volume S/N :**	6429
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.67715
Calibrator S/N :	2585	**Calibrator Intercept :**	-0.02388

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	4.0	1.1937	40	Slope :	35.3548
2	5.0	1.3319	44	Intercept :	-2.5902
3	6.2	1.4805	50	Correlation Coefficient :	0.9983
4	7.4	1.6154	54		
5	8.8	1.7595	60		



Calibrated by : Jatsarawut

(Mr. Jatsarawut Pattama)
BKK Field Services Scientist (2)

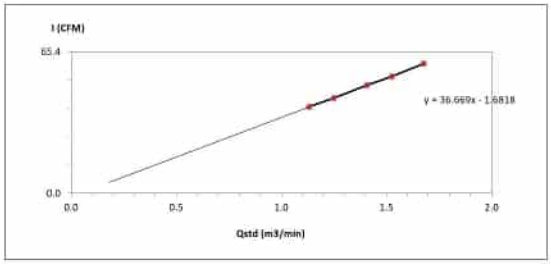
Approved by : Warakorn P.

(Mr. Warakorn Pookrak)
Field Services Supervisor

High Volume Air Sampler Calibration Worksheet

Project Site :	Siam City Cement Public Company Limited	**Barometric Pressure (mm Hg) :**	751.3
Calibrate Location :	ลิตหินลับ	**Temperature (°C) :**	33.1
Calibrate Date :	11-Jun-26	**High Volume ID :**	BKK_FS1375
CalibrationSheet No.:	C-110626-BKK_FS1375	**High Volume Model :**	TE-5009X
Calibrator ID:	BKK_FS0625	**High Volume S/N :**	6256
Calibrator Model :	TE-5028A	**Calibrator Slope :**	1.67715
Calibrator S/N :	2585	**Calibrator Intercept :**	-0.02388

Test No.	Delta H_2O (inch)	Q_{std} (m^3/min)	I : Chart (CFM)	Linear Regression	
1	3.6	1.1327	40	Slope :	36.6692
2	4.4	1.2498	44	Intercept :	-1.6818
3	5.6	1.4071	50	Correlation Coefficient :	0.9997
4	6.6	1.5256	54		
5	8.0	1.6773	60		



Calibrated by : Jatsarawut

(Mr. Jatsarawut Pattama)
BKK Field Services Scientist (2)

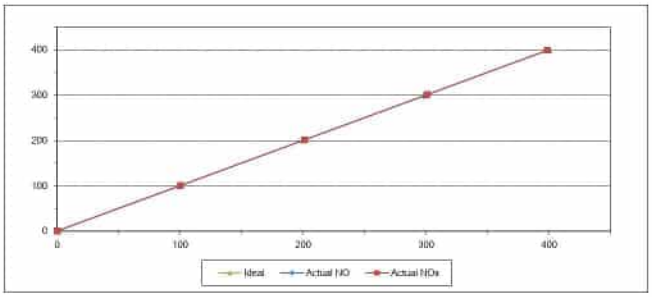
Approved by : Warakorn P.

(Mr. Warakorn Pookrak)
Field Services Supervisor

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	NOx Analyzer
Manufacturer	HORIBA	Model	APNA-370
Serial No.	X9RAXH0D	Equipment ID	BKK_FS0803
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	55.88	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS						
	Ideal	Actual NO	Error NO	%Error NO	Actual NOx	Error NOx	%Error NOx
ZERO	0.00	0.10	0.10	0.10	0.10	0.10	0.10
1	100.00	98.80	-1.20	-1.20	100.50	0.50	0.50
2	200.00	201.50	1.50	0.75	201.20	1.20	0.60
3	300.00	298.40	-1.60	-0.53	301.00	1.00	0.33
4	400.00	398.50	-1.50	-0.38	398.70	-1.30	-0.33
AVERAGE (%)				-0.25			0.24



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

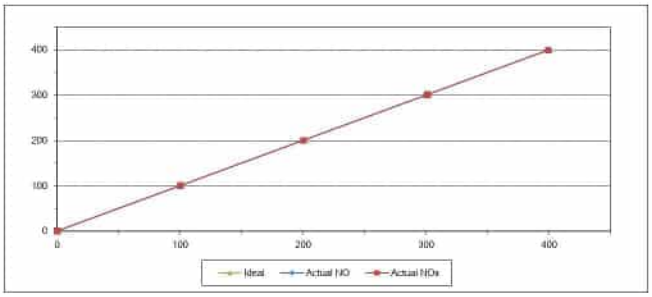
Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	NOx Analyzer
Manufacturer	HORIBA	Model	APNA-370
Serial No.	TLTATGDW	Equipment ID	BKK_FS0785
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	55.88	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS						
	Ideal	Actual NO	Error NO	%Error NO	Actual NOx	Error NOx	%Error NOx
ZERO	0.00	0.10	0.10	0.10	0.10	0.10	0.10
1	100.00	99.00	-1.00	-1.00	100.30	0.30	0.30
2	200.00	199.30	-0.70	-0.35	200.50	0.50	0.25
3	300.00	299.00	-1.00	-0.33	301.10	1.10	0.37
4	400.00	398.70	-1.30	-0.33	399.30	-0.70	-0.17
AVERAGE (%)				-0.38			0.17



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

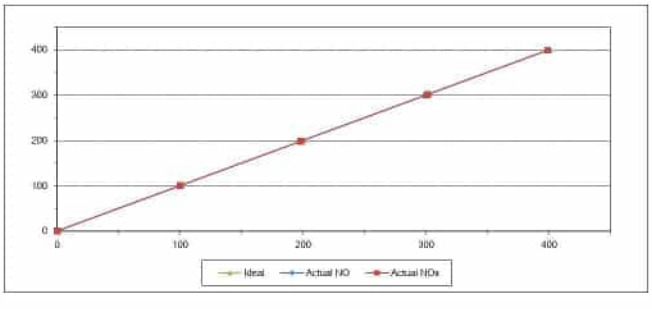
Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	NOx Analyzer
Manufacturer	HORIBA	Model	APNA-370
Serial No.	PX13CWA0	Equipment ID	BKK_FS1088
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	55.88	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS						
	Ideal	Actual NO	Error NO	%Error NO	Actual NOx	Error NOx	%Error NOx
ZERO	0.00	0.10	0.10	0.10	0.10	0.10	0.10
1	100.00	99.10	-0.90	-0.90	100.20	0.20	0.20
2	200.00	198.30	-1.70	-0.85	198.10	-1.90	-0.95
3	300.00	298.60	-1.40	-0.47	301.10	1.10	0.37
4	400.00	399.90	-0.10	-0.03	398.90	-1.10	-0.28
AVERAGE (%)				-0.43			-0.11



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

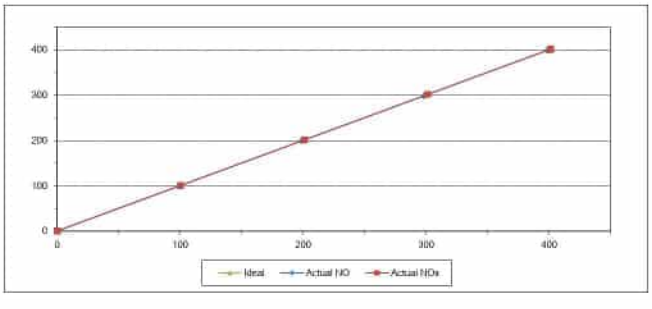
Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	NOx Analyzer
Manufacturer	HORIBA	Model	APNA-370
Serial No.	HCWSR681	Equipment ID	BKK_FS0800
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	55.88	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS						
	Ideal	Actual NO	Error NO	%Error NO	Actual NOx	Error NOx	%Error NOx
ZERO	0.00	0.10	0.10	0.10	0.10	0.10	0.10
1	100.00	99.10	-0.90	-0.90	100.50	0.50	0.50
2	200.00	198.80	-1.20	-0.60	201.30	1.30	0.65
3	300.00	298.00	-2.00	-0.67	301.30	1.30	0.43
4	400.00	398.70	-1.30	-0.33	401.30	1.30	0.33
AVERAGE (%)				-0.48			0.40



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

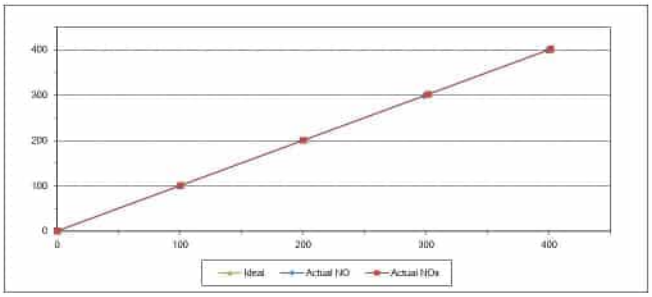
Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	NOx Analyzer
Manufacturer	HORIBA	Model	APNA-370
Serial No.	PHD13MC7	Equipment ID	BKK_FS1072
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	55.88	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS						
	Ideal	Actual NO	Error NO	%Error NO	Actual NOx	Error NOx	%Error NOx
ZERO	0.00	0.10	0.10	0.10	0.10	0.10	0.10
1	100.00	98.90	-1.10	-1.10	100.50	0.50	0.50
2	200.00	201.30	1.30	0.65	200.20	0.20	0.10
3	300.00	298.30	-1.70	-0.57	301.80	1.80	0.60
4	400.00	398.50	-1.50	-0.38	401.40	1.40	0.35
AVERAGE (%)				-0.26			0.33



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

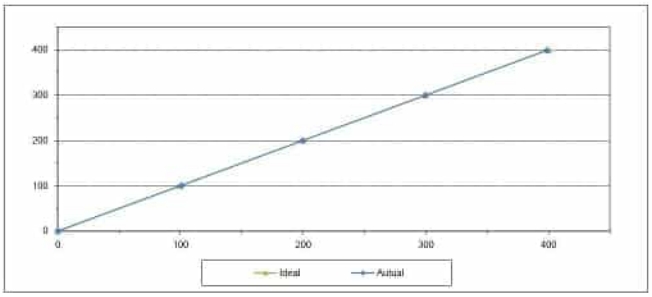
Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	SO2 Analyzer
Manufacturer	HORIBA	Model	APSA-370
Serial No.	2SSLA6G0	Equipment ID	BKK_FS0802
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	56.3	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS			
	Ideal	Autual	Error	%Error
ZERO	0.00	0.10	0.10	0.10
1	100.00	101.00	1.00	1.00
2	200.00	199.40	-0.60	-0.30
3	300.00	299.30	-0.70	-0.23
4	400.00	398.30	-1.70	-0.42
AVERAGE (%)				0.03



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

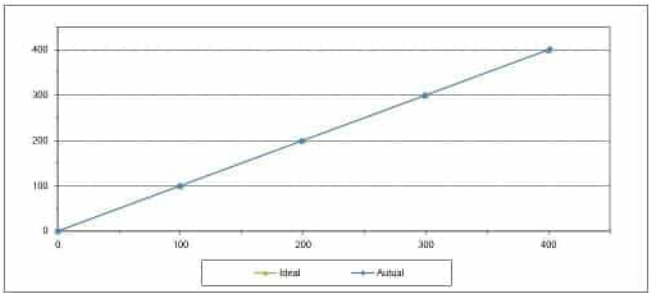
Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	SO2 Analyzer
Manufacturer	HORIBA	Model	APSA-370
Serial No.	3C72K8HB	Equipment ID	BKK_FS0784
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	56.3	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS			
	Ideal	Autual	Error	%Error
ZERO	0.00	0.10	0.10	0.10
1	100.00	99.60	-0.40	-0.40
2	200.00	198.60	-1.40	-0.70
3	300.00	298.70	-1.30	-0.43
4	400.00	401.10	1.10	0.28
AVERAGE (%)				-0.23



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

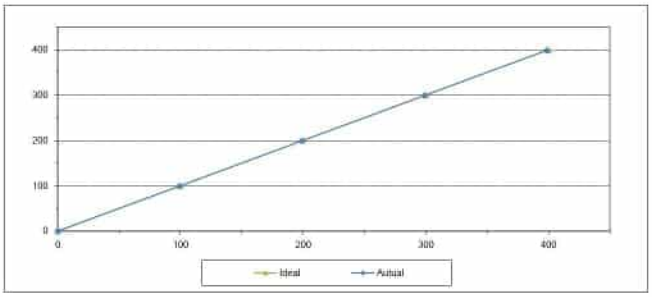
Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	SO2 Analyzer
Manufacturer	HORIBA	Model	APSA-370
Serial No.	XHV1S59F	Equipment ID	BKK_FS1087
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	56.3	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS			
	Ideal	Autual	Error	%Error
ZERO	0.00	0.10	0.10	0.10
1	100.00	99.10	-0.90	-0.90
2	200.00	198.90	-1.10	-0.55
3	300.00	298.80	-1.20	-0.40
4	400.00	398.30	-1.70	-0.42
AVERAGE (%)				-0.43



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

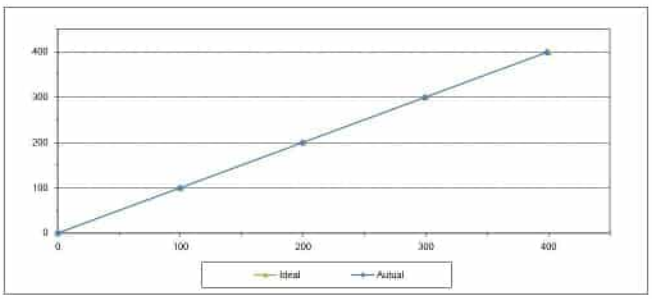
Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	SO2 Analyzer
Manufacturer	HORIBA	Model	APSA-370
Serial No.	Y53SNSFB	Equipment ID	BKK_FS0781
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	56.3	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS			
	Ideal	Autual	Error	%Error
ZERO	0.00	0.10	0.10	0.10
1	100.00	99.70	-0.30	-0.30
2	200.00	199.20	-0.80	-0.40
3	300.00	298.80	-1.20	-0.40
4	400.00	398.50	-1.50	-0.38
AVERAGE (%)				-0.28



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

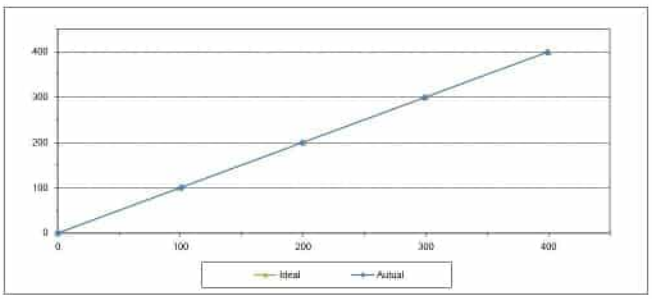
ALS Laboratory Group

FORM NO.: F 06-056 REVISION NO.: - ISSUE DATE: 02/04/12

MULTIPOINT CALIBRATION REPORT

Calibration Date	5-Jan-26	Equipment Name	SO2 Analyzer
Manufacturer	HORIBA	Model	APSA-370
Serial No.	YU9BY9F9	Equipment ID	BKK_FS0799
Calibrator Manufacturer	Teledyne API	Model	700
Serial No.	947		
Std. Gas Concentration (PPM)	56.3	Cylinder No.	GN0027222
Cylinder Pressure (psi)	1800	Certified By	Airgas Inc.
Certified Date	9-Feb-22	Expired Date	9-Feb-30

Point	CALIBRATION RESULTS			
	Ideal	Autual	Error	%Error
ZERO	0.00	0.10	0.10	0.10
1	100.00	101.10	1.10	1.10
2	200.00	199.10	-0.90	-0.45
3	300.00	298.50	-1.50	-0.50
4	400.00	398.80	-1.20	-0.30
AVERAGE (%)				-0.01



Calibrated By

(Mr.Jirawut Sakarn)
Field Environmental Scientist (3)

Approved By

(Mr.Sarayuth Jittranont)
Assistant General Manager

ALS Laboratory Group

FORM NO.: F 06-056 REVISION NO.: - ISSUE DATE: 02/04/12

JNAC
JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/13-15, 63/19-20
Pinchaisuan 7,371 Rd. Wiwitsuan, Bangkhlan,
Bangkok 10260(Thailand)
Tel: +6602808532
Mobile: +6686 9999453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWS-062-67

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM	: Cup anemometer
MANUFACTURER	: Ninolyne
MODEL/TYPE	: Sensor: WS-02F Data logger: 110-WS-250N-0
SERIAL NUMBER	: Sensor: WS0-A5964 Data logger: A5964
ID NUMBER	: BKK_FS1369
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 22 Nov 2024
MEASUREMENT DATE	: 26 Nov 2024
ISSUE DATE	: 26 Nov 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (23.7) °C, (60.7) %RH and (1008.0) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sarawit Thaingtad
☐ Miss Jiraporn Lamsompid

Approved signatory:
Mr. Parinya Boonchomsri
Calibration Department Manager

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455IAQ and pitot tube with precision differential pressure meter model: DPM2300 in vertical test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-INT based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of the measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIST (National Metrology Institute of Thailand) via Certificate number: MW-0002-24 and MW-0005-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the ISUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

REVIEW BY
APPROVED BY
ISSUE CAL DATE 26/05/26

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [1] to [2]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Jiranatee Associates Co., Ltd.

Certificate Number
CWS-062-67

MEASUREMENT RESULTS [1]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with pasolides differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the lower plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

V_{std}[2] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	V_{uuc}[3] (m/s)	Error (m/s)	U (k=2) (m/s)
1.012	23.70	23.65	0.9	-0.1	0.31
2.206	23.68	23.65	2.0	-0.2	0.31
3.050	23.70	23.65	2.9	-0.1	0.31
4.196	23.70	23.65	4.0	-0.2	0.31
4.95	23.50	23.65	4.8	-0.1	0.31
5.94	23.70	23.65	5.8	-0.1	0.31
7.04	23.40	23.65	7.0	-0.1	0.31
7.95	23.70	23.65	7.9	-0.1	0.31
8.97	23.40	23.65	8.9	-0.1	0.31
9.95	23.60	23.65	9.9	0.0	0.31
11.09	23.50	23.65	11.1	0.0	0.31
12.02	23.50	23.65	12.0	0.0	0.31
12.91	23.50	23.65	13.0	0.1	0.31
13.91	23.50	23.65	14.1	0.2	0.31
14.97	23.50	23.65	15.0	0.0	0.31
15.97	23.40	23.65	16.1	0.2	0.32

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Velocity of standard
[3] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP

Calibration set up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set-up is not true to scale due to imaging geometry.

*** End of Certificate of Calibration ***

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 63/35-36
Petchkasem 127/1, Rd. Wutthisarn, Bangkokyai,
Bangkok 10600 (Thailand)
Tel: +6608680812
Mobile: +66863995653
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Temperature measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CDT-202-67

MEASUREMENT ITEM	: Data Logger with Temperature sensor
MANUFACTURER	: Nowalynx
MODEL/TYPE	: 110-WS-25DL-O
SERIAL NUMBER	: A5964
ID NUMBER	: BKK_FS1369
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 21 Nov 2024
MEASUREMENT DATE	: 26 Nov 2024
ISSUE DATE	: 26 Nov 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

NOTED: *The certificate is valid only to the item calibrated on date and place of calibration.*

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibration procedure:
The temperature calibration was done by In-House calibration method no. WI-CT-001 according to comparison method with standard digital temperature indicator and standard temperature probe. The temperature scale use was based on ITS-90.

Traceability:
The measurement results are traceable to the International System of units (SI) through National Institute of Metrology Thailand (NIMT) Certificate number: TT-0047-24, Certificate number: ER-0113-24

Reference Used During Calibration:
1. Standard Temperature Probe
Model: STS-100-A500, Serial No.: 667692-09, Due date: 26 Mar 2025
2. Digital Temperature Indicator
Model: DTI-1000-A MK II, Serial No.: 671407-00591 Due date: 21 Oct 2025

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data - Guide to the expression of uncertainty in measurement"

Calibrated by:
☐ Mr. Sorawit Thachalad
☑ Miss Nitnaporn Lertsompol
☐ Miss Rungrumpai Pheoonoi

Approved signatory:
Mr. Parinya Booncharoen
Calibration Department Manager

THIS CERTIFICATE MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Continuation of Certificate of Calibration Number CDT-202-67

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Calibration Range: 20 °C to 40 °C

Function:
Table 3: This equipment was connected with temperature sensor Model: HMP60 S/N: U3911251. Dimension: Diameter 12 mm. Length 80 mm.

Immersion Depth (mm)	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Uncertainty (°C)
80	20.066	19.8	-0.3	0.14
80	25.053	24.6	-0.5	0.099
80	30.045	29.7	-0.4	0.14
80	35.029	34.6	-0.4	0.099
80	40.016	39.5	-0.5	0.099

UUC*: Unit Under Calibration
Remark: The reported uncertainty of measurement is 0.14, based on standard uncertainty multiplied by a coverage factor k=2.14 providing a level of confidence of approximately 95%.

End of Certificate of Calibration

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 63/35-36
Petchkasem 127/1, Rd. Wutthisarn, Bangkokyai,
Bangkok 10600 (Thailand)
Tel: +6608680812
Mobile: +66863995653
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Pressure measurement laboratory
Calibration services department.

NSC - TISI - TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CPR-030-67

MEASUREMENT ITEM	: Digital barometer
MANUFACTURER	: Nowalynx
MODEL/TYPE	: Sensor: 110-WS-25BP Data logger: 110-WS-25DL-O
SERIAL NUMBER	: Sensor: BP-A5964 Data logger: A5964
ID NUMBER	: BKK_FS1369
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 22 Nov 2024
MEASUREMENT DATE	: 26 Nov 2024
ISSUE DATE	: 26 Nov 2024

Calibration procedure:
The Digital barometer was calibrated against Digital pressure calibrator, The WI-CT-003 was used as a calibration guideline.

Traceability:
The measurement results are traceable to the International system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MP-0009-24

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data - Guide to the expression of uncertainty in measurement"

CONDITION OF THIS RESULT OF CALIBRATION:
1. Reference Standard Instrument:

Instrument	Model	Serial No.	Certificate No.	Due Date
Absolute Pressure Transducer	CPG2500	A1001288	MP-0009-24	27 Dec 2024

1. Calibration effort for calibration sequence C
2. The UUC* was installed in vertical orientation about reference standard instrument and center of UUC* was used as the reference level
3. Calibration conditions:
4. Condition : ☑ Normal ☐ Abnormal
Pressure transmitting medium : Air
ρ_a (20°C, 1 bar) : 1.213 kg/m³
H_{amb} : [55-65] %
t_{amb} : [23-33] °C
P_{amb} : [1060-210] mbar
5. The certificate is valid only to the item calibrated on date and place of calibration

Calibrated by:
☑ Mr. Sorawit Thachalad
☐ Miss Nitnaporn Lertsompol

Approved signatory:
Mr. Parinya Booncharoen
Calibration Department Manager

THIS CERTIFICATE REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 63/35-36
Petchkasem 127/1, Rd. Wutthisarn, Bangkokyai,
Bangkok 10600 (Thailand)
Tel: +6608680812
Mobile: +66863995653
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Pressure measurement laboratory
Calibration services department.

NSC - TISI - TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CPR-030-67

MEASUREMENT RESULTS : ☐ Without adjustment ☑ With adjustment

CALIBRATION IN THE RANGE OF : 950 mbar to 1050 mbar

The results of calibration and associated measurement uncertainties are reported in the table below:

STD (mbar)	UUC* (mbar)	Error (mbar)	Uncertainty (k=2) (mbar)
950.01	951.4	1.4	0.37
970.01	971.0	1.0	0.38
990.00	990.6	0.6	0.32
1010.01	1010.1	0.1	0.40
1029.97	1029.8	-0.2	0.37
1049.96	1049.0	-0.9	0.40

Note: UUC* Unit Under Calibration
: To convert the result in report unit to Pa should be multiply by 100

End of certificate

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Sinthawa, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6628808812
Mobile: +66863003453
E-mail: jnac.calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Relative humidity and Air Temperature measurement laboratory
Calibration services department.

CERTIFICATE OF CALIBRATION

Certificate No. : CRT-054-67 **Page 1 of 2 Pages**

MEASUREMENT ITEM	: Relative humidity with data logger
MANUFACTURER	: Novalynx
MODEL/TYPE	: Data Logger: 110-WS-250L-D Sensor: HMP60
SERIAL NUMBER	: Data Logger: A5964 Sensor: U3911251
ID NUMBER	: BRK_FS1369
CONDITION AS-RECEIVED	: New item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 21 Nov 2024
MEASUREMENT DATE	: 26 Nov 2024
ISSUE DATE	: 26 Nov 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

NOTED: The certificate is valid only to the item calibrated on date and place of calibration.

Calibration procedure:
The Relative humidity and Air Temperature calibration was done by in-house calibration method as WI-CL-009 and WI-CL-010 according to comparison method with Standard Chilled Mirror hygrometer with Temperature sensor and standard Humidity generator chamber.

Traceability:
The measurements are traceable to the International System of Units (SI) through National Institute of Metrology Thailand (NIMT). Certificate number: 1660078-23 and through Jiranatee Associates Co., Ltd. Certificate number: CDT-001-67.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☐ Mr. Sorawit Thichalad
☒ Miss Jittaporn Lertsomphol
☐ Mrs. Kwanruetai Phromsiri

Approved signatory
Mr. Pariwa Boonchoosen
Calibration Department Manager

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

JIRANATEE ASSOCIATES CO.,LTD.

Continuation of Certificate of Calibration Number: CRT-054-67 **Page 2 of 2 Pages**

Measurement Results:

The results of calibration and associated measurement uncertainties are reported in the table below.

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Table 1: The results of calibration of relative humidity at 30 °C are reported in table below.
Calibration Range: 20%RH to 80%RH

Air Temperature (°C)	Standard Reading (%RH)	UUC Reading (%RH)	Error (%RH)	Uncertainty ±(%RH)
29.91	19.53	18.1	-1.4	0.79
29.82	50.63	49.6	-1.0	1.1
29.83	82.02	81.5	-0.5	2.1

UUC*: Unit Under Calibration

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

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Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-062-67

CERTIFICATE OF CALIBRATION

Page 1 of 2 Pages

MEASUREMENT ITEM	: Wind Direction Sensor
MANUFACTURER	: Novalynx
MODEL/TYPE	: Sensor: WS-02F Data logger: 110-WS-250L-D
SERIAL NUMBER	: Sensor: WSD-A5964 Data logger: A5964
ID NUMBER	: BRK_FS1369
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 22 Nov 2024
MEASUREMENT DATE	: 26 Nov 2024
ISSUE DATE	: 26 Nov 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITION

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	129	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.143	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (23.9)°C, (49.2) %RH and (1008.8) hPa.

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder, model: ZX-02(F), DIGM #3-5-00 in an close test section of Eiffel-type wind tunnel with 900 cm² cross test section area. The WI-CL-006 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of the measurement to recognized the national standards, and to realization of the International system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0327-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☒ Mr. Sorawit Thichalad
☐ Miss Jittaporn Lertsomphol

Approved signatory
Mr. Pariwa Boonchoosen
Calibration Department Manager

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

JIRANATEE ASSOCIATES CO.,LTD.

Certificate Number
CWD-062-67

Page 2 of 2 Pages

MEASUREMENT RESULTS[1]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed m/s	θ°_{std} Degree (°)	θ°_{uuc} Degree (°)	Error Degree (°)	U (k=2) Degree (°)
4.99	0.000	0	0	0.000
	45.000	42	-3	45.000
	90.000	87	-3	90.000
	135.000	133	-2	135.000
	180.000	181	1	180.000
	225.000	227	2	225.000
	270.000	273	3	270.000
	315.000	318	3	315.000

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Direction of standard
[3] Direction of Unit Under Calibration

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Wuthupirj, Bangkoknoi,
Bangkok 10600(Thailand)
Tel: +66(0)868083812
Mobile: +66863998453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWS-036-68

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Cup anemometer
MANUFACTURER : Nowalynx
MODEL/TYPE : Sensor: WS-02F
Data logger: 110-WS-25DL-D
SERIAL NUMBER : Sensor: WSD- A5908
Data logger: A5908
ID NUMBER : JRAT_FS1213
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd,
Khwaeng Suan Luang, Khet Suan Luang,
Bangkok 10250 Thailand.

RECEIVED DATE : 07 Nov 2025
MEASUREMENT DATE : 12 Nov 2025
ISSUE DATE : 12 Nov 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

: Wind tunnel cross-section area[1]	900	cm^2
Cup anemometer frontal area[2]	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (25.0) °C, (58.0) %RH and (1008.2) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Soravit Thachalad
☐ Miss Jittraporn Lertsomphol

Approved signatory .....
Mr. Parinya Boonchanoen
Calibration Department Manager

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455-12 and pitot tube with precision differential pressure meter model: DPM2500 in an close test-section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-007 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0019-25 and MW-0059-25

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

REVIEW BY
APPROVED BY
NEXT CAL DATE 12/05/27

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWS-036-68

MEASUREMENT RESULTS[3]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the lower plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

v_{ref}[2] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	v_{uuc}[3] (m/s)	Error (m/s)	*U (k=2)* (m/s)
1.014	25.00	24.95	0.9	-0.1	0.31
2.232	25.10	24.95	2.0	-0.2	0.31
2.998	24.88	24.95	2.9	-0.1	0.31
4.246	25.06	24.95	3.9	-0.3	0.31
4.92	24.96	24.95	4.8	-0.1	0.31
5.98	25.10	24.95	5.9	-0.1	0.31
7.04	25.00	24.95	6.9	-0.1	0.31
7.98	25.10	24.95	7.8	-0.1	0.31
9.04	25.00	24.95	8.9	-0.1	0.31
9.97	25.00	24.95	9.9	-0.1	0.35
11.02	25.00	24.95	11.0	-0.1	0.31
11.95	24.94	24.95	12.1	0.1	0.31
13.01	25.00	24.95	13.1	0.1	0.32
14.04	25.00	24.95	14.2	0.2	0.37
15.03	25.00	24.95	15.0	0.0	0.41
15.96	25.00	24.95	16.1	0.1	0.38

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Velocity of standard
[3] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP

Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set- up is not true to scale due to imaging geometry.

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Wuthupirj, Bangkoknoi,
Bangkok 10600(Thailand)
Tel: +66(0)868083812
Mobile: +66863998453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-036-68

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Wind Direction Sensor
MANUFACTURER : Nowalynx
MODEL/TYPE : Sensor: WS-02F
Data logger: 110-WS-25DL-D
SERIAL NUMBER : Sensor: WSD- A5908
Data logger: A5908
ID NUMBER : JRAT_FS1213
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd,
Khwaeng Suan Luang, Khet Suan Luang,
Bangkok 10250 Thailand.

RECEIVED DATE : 07 Nov 2025
MEASUREMENT DATE : 12 Nov 2025
ISSUE DATE : 12 Nov 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010 ± 10	hPa

PLACE OF CALIBRATION : Eiffel-type-wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITION

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	129	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.143	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (25.5)°C, (56.7) %RH and (1010.0) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Soravit Thachalad
☐ Miss Jittraporn Lertsomphol

Approved signatory .....
Mr. Parinya Boonchanoen
Calibration Department Manager

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: AX400HTS-DMD4-P3-5-U0 in an close test-section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-008 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWD-036-68

MEASUREMENT RESULTS[3]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed m/s	$D°_{ref}$ Degree (°)	$D°_{uuc}$ Degree (°)	Error Degree (°)	*U (k=2)* Degree (°)
5.02	0.000	0	0	0.60
	45.000	43	-2	0.60
	90.000	89	-1	0.82
	134.999	135	0	0.60
	180.000	181	1	0.82
	225.000	227	2	0.60
	270.000	272	2	0.60
	315.001	317	2	0.82

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Direction of standard
[3] Direction of Unit Under Calibration

End of Certificate of Calibration

Jiranatee Associates Co., Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7, 7/1, Rd. Wutthopra, Bangkokyai,
Bangkok 10600(Thailand)
Tel. +66(0)8688312
Mobile: +66(0)2999453
E-mail: jnaccalibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Temperature measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CDT-186-68

MEASUREMENT ITEM	: Data Logger with Temperature sensor
MANUFACTURER	: Novalynx
MODEL/TYPE	: 110-WS-25DL-D
SERIAL NUMBER	: A5908
ID NUMBER	: BKK_FS1213
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 07 Nov 2025
MEASUREMENT DATE	: 12 Nov 2025
ISSUE DATE	: 12 Nov 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

NOTED: *The certificate is valid only to the item calibrated on date and place of calibration.*

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibration procedure:
The temperature calibration was done by In-House calibration method as WI-CL-001 according to comparison method with standard digital temperature indicator and standard temperature probe. The temperature scale use was based on ITS-90.

Traceability:
The measurement results are traceable to the international system of units (SI) through National Institute of Metrology Thailand (NIMT) Certificate number: TT-1013-25, Certificate number: FR-0061-25.

Reference Used During Calibration:
1. Standard Temperature Probe
Model: STS-100 A500, Serial No.: 867682-09, Due date: 9 Apr 2026
2. Digital Temperature Indicator
Model: DTI-1000-A MK II, Serial No.: 671407-00591 Due date: 22 Apr 2026

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Calibrated by:
☑ Mr. Sorawit Thachalad
☐ Miss Jittraporn Lertsomphol
☐ Miss Ruangrumpai Phoonmit

Approved signatory:
Mr. Parinya Booncharoen
Calibration Department Manager

THIS CERTIFICATE MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Continuation of Certificate of Calibration Number CDT-186-68

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Calibration Range: 20 °C to 40 °C

Function:
Table 1: This equipment was connected with temperature sensor Model: HMP60 S/N: R3641221. Dimension: Diameter 12 mm. Length 80 mm.

Immersion Depth (mm)	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Uncertainty (°C)
80	20.072	19.9	-0.2	0.099
80	25.055	24.8	-0.3	0.099
80	30.035	29.8	-0.2	0.099
80	35.015	34.7	-0.3	0.099
80	39.992	39.7	-0.3	0.099

UUC*: Unit Under Calibration

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Wutthopra, Bangkokyai,
Bangkok 10600(Thailand)
Tel. +66(0)8688312
Mobile: +66(0)2999453
E-mail: jnac.calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Relative humidity and Air Temperature measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CRT-025-68

MEASUREMENT ITEM	: Relative humidity with data logger
MANUFACTURER	: Novalynx
MODEL/TYPE	: Data Logger: 110-WS-25DL-D Sensor: HMP60
SERIAL NUMBER	: Data Logger: A5908 Sensor: U3641221
ID NUMBER	: BKK_FS1213
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 07 Nov 2025
MEASUREMENT DATE	: 12 Nov 2025
ISSUE DATE	: 12 Nov 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

NOTED: *The certificate is valid only to the item calibrated on date and place of calibration.*

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibration procedure:
The Relative humidity and Air Temperature calibration was done by In-House calibration method as WI-CL-009 and WI-CL-010 according to comparison method with Standard Chilled Mirror hygrometer with Temperature sensor and standard Humidity generator chamber.

Traceability:
The measurements are traceable to the international system of units (SI) through National Institute of Metrology Thailand (NIMT). Certificate number: TH-0340-24 and Jiranatee Associates Co., Ltd. Certificate number: CDT-025-68.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Calibrated by:
☐ Mr. Sorawit Thachalad
☑ Miss Jittraporn Lertsomphol
☐ Miss Ruangrumpai Phoonmit

Approved signatory:
Mr. Parinya Booncharoen
Calibration Department Manager

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Continuation of Certificate of Calibration Number: CRT-025-68

Measurement Results:

The results of calibration and associated measurement uncertainties are reported in the table below.

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Table 1: The results of calibration of relative humidity at 30 °C are reported in table below.
Calibration Range: 20%RH to 80%RH

Air Temperature (°C)	Standard Reading (%RH)	UUC Reading (%RH)	Error (%RH)	Uncertainty ±(%RH)
30.01	20.01	20.0	-0.1	0.78
29.99	50.03	49.2	-0.8	1.3
30.03	80.06	78.4	-1.7	2.1

UUC*: Unit Under Calibration

End of Certificate of Calibration

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Wattapra, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6628838941
Mobile: +66863999412
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWS-012-69

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Cup anemometer
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-02F
Data logger: 200-WS-25LB
SERIAL NUMBER : Sensor: WSD-A5379
Data logger: A5379
ID NUMBER : BKK_I50919
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd,
Khwaeng Suan Luang, Khet Suan Luang,
Bangkok 10250 Thailand.

RECEIVED DATE : 06 Feb 2026
MEASUREMENT DATE : 13 Feb 2026
ISSUE DATE : 13 Feb 2026

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

: Wind tunnel cross-section area[1]	900	cm^2
Cup anemometer frontal area[2]	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (23.9) °C, (54.3) %RH and (1015.8) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thatsalad
☐ Miss Jittraporn Lertsomphol

Approved signatory:
Mr. Parinya Boonchareon
Calibration Department Manager

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455-32 and pitot tube with precision differential pressure meter model: DPM2500 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CI-007 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0019-25 and MW-0059-25

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

REVIEW BY
APPROVED BY
NEXT CAL DATE 13/08/27

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio $^1/_{S0}$ [-]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWS-012-69

MEASUREMENT RESULTS [5]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity (1.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pilot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the lower plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

V_{std} [2] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	V_{UUC} [3] (m/s)	Error (m/s)	U (k=2) (m/s)
0.981	23.78	23.90	0.9	-0.1	0.31
2.118	23.62	23.90	2.0	-0.1	0.31
3.008	23.69	23.90	2.9	-0.1	0.31
4.215	23.64	23.90	4.0	-0.2	0.31
5.02	23.50	23.90	5.0	0.0	0.31
5.96	23.50	23.90	6.0	0.0	0.31
7.02	23.46	23.90	7.1	0.1	0.31
7.94	23.70	23.90	8.1	0.1	0.31
9.01	23.18	23.90	9.1	0.1	0.31
10.01	23.50	23.90	10.1	0.1	0.31
11.02	23.36	23.90	11.2	0.1	0.31
12.01	23.50	23.90	12.2	0.2	0.31
12.98	23.50	23.90	13.3	0.3	0.31
13.99	23.50	23.90	14.3	0.3	0.31
14.98	23.50	23.90	15.3	0.3	0.37
15.97	23.50	23.90	16.4	0.4	0.31

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Velocity of standard
[3] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP

Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set- up is not true to scale due to imaging geometry.

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Wattapra, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6628838941
Mobile: +66863999412
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-012-69

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Wind Direction Sensor
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-02F
Data logger: 200-WS-25LB
SERIAL NUMBER : Sensor: WSD-A5379
Data logger: A5379
ID NUMBER : BKK_I50919
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd,
Khwaeng Suan Luang, Khet Suan Luang,
Bangkok 10250 Thailand.

RECEIVED DATE : 06 Feb 2026
MEASUREMENT DATE : 13 Feb 2026
ISSUE DATE : 13 Feb 2026

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010 ± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITION

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	129	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.143	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (23.1)°C, (59.8) %RH and (1009.9) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thatsalad
☐ Miss Jittraporn Lertsomphol

Approved signatory:
Mr. Parinya Boonchareon
Calibration Department Manager

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: AS40J075-D5A04-P3.5-L10 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CI-008 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio $^1/_{S0}$ [-]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWD-012-69

MEASUREMENT RESULTS [5]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed m/s	$D°_{std}$ Degree (°)	$D°_{UUC}$ Degree (°)	Error Degree (°)	U (k=2) Degree (°)
5.00	45.000	40	-5	0.60
	90.000	85	-5	0.60
	135.000	131	-4	0.60
	180.000	180	0	0.60
	225.000	229	4	0.60
	270.000	275	5	0.60
	315.000	320	5	0.60
	360.000	359	-1	0.60

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Direction of standard
[3] Direction of Unit Under Calibration

End of Certificate of Calibration

Jiranatee Associates Co., Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd.
63/14-15, 64/35-36
Petchkasem 7,7/1, Rd. Wattheera, Bangkhuyai,
Bangkok 10800 (Thailand)
Tel: +66(0)818408812
Mobile: +66(0)839399453
E-mail: jnac.calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWS-071-67

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM	: Cup anemometer	
MANUFACTURER	: Novalynx	
MODEL/TYPE	: Sensor: WS-02FA	
	Data logger: 110-WS-250L-D	
SERIAL NUMBER	: Sensor: WSD-A5966	
	Data logger: A5966	
ID NUMBER	: BKK_FS1371	
CONDITION AS-RECEIVED	: Used item	
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.	
RECEIVED DATE	: 24 Dec 2024	
MEASUREMENT DATE	: 27 Dec 2024	
ISSUE DATE	: 27 Dec 2024	

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.6) °C, (58.5) %RH and (1015.0) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thaisiriat
☐ Miss Jitraporn Lertpongrid

Approved signatory:
Mr. Pariwa Rasmichanan
Calibration Department Manager

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455-2 and pitot tube with precision differential pressure meter model: DPM2500 in an open test section of Eiffel-type wind tunnel with 900 sq.cm. cross test section area. The WI-CI-007 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0007-24 and MW-0065-24

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data - Guide to the expression of uncertainty in measurement"

REVIEW BY
APPROVED BY
NEXT CAL DATE 27/06/26

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [1] to [2]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWS-071-67

MEASUREMENT RESULTS[1]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of thickness plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

v_{std}[2] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	v_{uuc}[3] (m/s)	Error (m/s)	U (k=2) (m/s)
1.002	24.60	24.55	0.9	-0.1	0.31
2.192	24.68	24.55	2.0	-0.2	0.31
3.062	24.40	24.55	2.9	-0.1	0.31
4.228	24.44	24.55	4.0	-0.2	0.31
4.96	24.40	24.55	5.0	0.0	0.31
5.95	24.70	24.55	5.9	0.0	0.31
7.00	24.28	24.55	7.1	0.1	0.31
7.94	24.50	24.55	8.1	0.2	0.31
8.96	24.14	24.55	9.1	0.1	0.31
9.95	24.60	24.55	9.9	0.0	0.31
11.02	24.34	24.55	11.2	0.2	0.31
12.01	24.44	24.55	12.3	0.3	0.33
12.98	24.50	24.55	13.3	0.3	0.34
13.97	24.48	24.55	14.3	0.3	0.39
14.99	24.66	24.55	15.3	0.3	0.33
15.97	24.68	24.55	16.3	0.3	0.31

Remark:
[1] Calibration results only cover for the tested circumstances and environmental conditions during which calibration took place
[2] Velocity of standard
[3] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP

Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set-up is not true to scale due to imaging geometry.

"""End of Certificate of Calibration"""

Jiranatee Associates Co., Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd.
63/14-15, 64/35-36
Petchkasem 7,7/1, Rd. Wattheera, Bangkhuyai,
Bangkok 10800 (Thailand)
Tel: +66(0)818408812
Mobile: +66(0)839399453
E-mail: jnac.calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-071-67

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM	: Wind Direction Sensor	
MANUFACTURER	: Novalynx	
MODEL/TYPE	: Sensor: WS-02FA	
	Data logger: 110-WS-250L-D	
SERIAL NUMBER	: Sensor: WSD-A5966	
	Data logger: A5966	
ID NUMBER	: BKK_FS1371	
CONDITION AS-RECEIVED	: Used item	
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.	
RECEIVED DATE	: 24 Dec 2024	
MEASUREMENT DATE	: 27 Dec 2024	
ISSUE DATE	: 27 Dec 2024	

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010 ± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITION

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	129	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.143	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.4)°C, (58.7) %RH and (1011.1) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thaisiriat
☐ Miss Jitraporn Lertpongrid

Approved signatory:
Mr. Pariwa Rasmichanan
Calibration Department Manager

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: AMCI-SEL-DMX4-P3-X-140 in an open test section of Eiffel-type wind tunnel with 900 sq.cm. cross test section area. The WI-CI-008 based on IEC 61400-12-1, Wind energy generation Systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data - Guide to the expression of uncertainty in measurement"

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [1] to [2]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWD-071-67

MEASUREMENT RESULTS[1]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed m/s	$D°_{std}$[2] Degree (°)	$D°_{uuc}$[3] Degree (°)	Error Degree (°)	U (k=2) Degree (°)
5.00	0.000	0	0	0.80
	45.000	41	-4	0.80
	90.000	87	-3	0.80
	135.000	131	-4	0.80
	180.000	182	2	0.80
	225.000	228	3	0.80
	270.000	274	4	0.80
	315.000	319	4	0.80

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Direction of standard
[3] Direction of Unit Under Calibration

"""End of Certificate of Calibration"""

Jiranatee Associates Co., Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
68/14-15, 82/95-96
Petchkasem 7,7(1), Bd. Wutthakas, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +66(0)6080812
Mobile: +66(0)3995953
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Temperature measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CDT-223-67

MEASUREMENT ITEM	: Data Logger with Temperature sensor
MANUFACTURER	: Novalynx
MODEL/TYPE	: 110-WS-2SDL-D
SERIAL NUMBER	: A5966
ID NUMBER	: BKK_FS1371
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 24 Dec 2024
MEASUREMENT DATE	: 27 Dec 2024
ISSUE DATE	: 27 Dec 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

NOTED: *The certificate is valid only to the item calibrated on date and place of calibration.*

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibration procedure:
The temperature calibration was done by In-House calibration method no. TPACL-001 according to comparison method with standard digital temperature indicator and standard temperature probe. The temperature scale use was based on ITS-90.

Traceability:
The measurement results are traceable to the international system of units (SI) through National Institute of Metrology Thailand (NIMT). Certificate number: 11-0047-24, Certificate number: 14-0113-24

Reference Used During Calibration:
1. Standard Temperature Probe
Model: STS-100-A500, Seyal No.: 687682-09, Due date: 26 Mar 2025
2. Digital Temperature Indicator
Model: DTI-1000-A MK II, Serial No.: 671407-00591 Due date: 23 Oct 2025

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data – Guide to the expression of uncertainty in measurement"

Calibrated by:
☐ Mr. Sawasdi Thachalad
☐ Miss Nittaporn Lertsompitol
☑ Miss Jirangrumpat Phoomvuti

JIRANATEE ASSOCIATES CO.,LTD.

Approved signatory: .....
Ms. Parinya Boonchuwon
Calibration Department Manager

THIS CERTIFICATE MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Continuation of Certificate of Calibration Number CDT-223-67

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Calibration Range: 20 °C to 40 °C

Function:
Table 1: This equipment was connected with temperature sensor Model: HMP60 S/N: V1920207.
Dimension: Diameter 12 mm. Length 80 mm.

Immersion Depth (mm)	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Uncertainty (°C)
80	20.072	19.9	-0.2	0.099
80	25.063	24.8	-0.2	0.16
80	30.050	29.9	-0.1	0.16
80	35.042	34.8	-0.2	0.099
80	40.030	39.7	-0.3	0.099

UUC*: Unit Under Calibration
Remark: The reported uncertainty of measurement is 0.16, based on standard uncertainty multiplied by a coverage factor k=2.21 providing a level of confidence of approximately 95%.

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
68/14-15, 82/95-96
Petchkasem 7,7(1), Bd. Wutthakas, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +66(0)6080812
Mobile: +66(0)3995953
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Relative humidity and Air Temperature measurement laboratory
Calibration services department.

CERTIFICATE OF CALIBRATION

Certificate No. : CRT-064-67

MEASUREMENT ITEM	: Relative humidity with data logger
MANUFACTURER	: Novalynx
MODEL/TYPE	: Data Logger: 110-WS-2SDL-D Sensor: HMP60
SERIAL NUMBER	: Data Logger: A5966 Sensor: V1920207
ID NUMBER	: BKK_FS1371
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 24 Dec 2024
MEASUREMENT DATE	: 27 Dec 2024
ISSUE DATE	: 27 Dec 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

NOTED: *The certificate is valid only to the item calibrated on date and place of calibration.*

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibration procedure:
The Relative humidity and Air Temperature calibration was done by In-House calibration method no. WI-CI-009 and WI-CI-010 according to comparison method with Standard Chilled Mirror hygrometer with Temperature sensor and Simulated humidity generator chamber.

Traceability:
The measurements are traceable to the International System of Units (SI) through National Institute of Metrology Thailand (NIMT). Certificate number: 11-0079-23 and through Jiranatee Associates Co., Ltd. Certificate number: CH-003-63.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data – Guide to the expression of uncertainty in measurement"

Calibrated by:
☐ Mr. Sawasdi Thachalad
☐ Miss Nittaporn Lertsompitol
☑ Miss Jirangrumpat Phoomvuti

JIRANATEE ASSOCIATES CO.,LTD.

Approved signatory: .....
Ms. Parinya Boonchuwon
Calibration Department Manager

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Continuation of Certificate of Calibration Number: CRT-064-67

Measurement Results:

The results of calibration and associated measurement uncertainties are reported in the table below.

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Table 1: The results of calibration of relative humidity at 30 °C are reported in table below.
Calibration Range: 20%RH to 80%RH

Air Temperature (°C)	Standard Reading (%RH)	UUC Reading (%RH)	Error (%RH)	Uncertainty ±(%RH)
30.09	79.89	78.7	-1.1	0.78
30.05	69.86	68.7	-1.0	1.1
30.03	79.59	78.7	-0.8	2.1

UUC*: Unit Under Calibration

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.
Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd Watthapra, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +66(0)868081812
Mobile: +66(0)3989453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Pressure measurement laboratory
Calibration services department.

NSC - TISI - TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CPB-039-67

MEASUREMENT ITEM	: Digital barometer
MANUFACTURER	: Novalynx
MODEL/TYPE	: Sensor: 110-WS-25BP Data logger: 110-WS-250L-D
SERIAL NUMBER	: Sensor: BP-A5966 Data logger: A5966
ID NUMBER	: BKK_FS1371
CONDITION AS-RECEIVED	: Used item.
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 24 Dec 2024
MEASUREMENT DATE	: 27 Dec 2024
ISSUE DATE	: 27 Dec 2024

Calibration procedure:
The Digital barometer was calibrated against Digital pressure calibrator. The WI-CI-003 was used as a calibration guideline.

Traceability:
The measurement results are traceable to the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MP 0009-24

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

CONDITION OF THIS RESULT OF CALIBRATION:

1. Reference Standard Instrument:

Instrument	Model	Serial No.	Certificate No.	Due Date
Absolute Pressure Transducer	CPG2500	41001187	MP-0009-24	27 Dec 2024

1. Calibration effort for calibration sequence C
2. The UUC* was installed in vertical orientation above reference standard instrument and center of UUC* was used as the reference level.
3. Calibration conditions:
4. Condition : ☑ Normal ☐ Abnormal
   Pressure transmitting medium : Air
   ρ_a (28°C, 1 bar) : 1.18 kg/m³
   H_{amb} : (52.0±2.5) %
   t_{amb} : (23.2±0.5) °C
   p_{amb} : (1008.1±3.8) mbar
5. The certificate is valid only for the items calibrated on date and place of calibration

Calibrated by:
☑ Mr. Sorawit Thachalad
☐ Miss Athraporn Lertsomphol

Approved signatory:
Mr. Pannya Booncharoen
Calibration Department Manager

THIS CERTIFICATE REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

JIRANATEE ASSOCIATES CO.,LTD.
Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd Watthapra, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +66(0)868081812
Mobile: +66(0)3989453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Pressure measurement laboratory
Calibration services department.

NSC - TISI - TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CPB-039-67

MEASUREMENT RESULTS : ☐ Without adjustment ☑ With adjustment

CALIBRATION IN THE RANGE OF : 950 mbar to 1050 mbar

The results of calibration and associated measurement uncertainties are reported in the table below.

STD (mbar)	UUC* (mbar)	Error (mbar)	Uncertainty (k=2) (mbar)
950.03	951.2	1.1	0.38
970.03	970.7	0.6	0.38
990.00	990.2	0.2	0.38
1010.09	1010.0	-0.1	0.37
1029.99	1029.5	-0.5	0.37
1049.98	1049.0	-0.9	0.37

Note: UUC* Unit Under Calibration
: To convert the result in report unit to Pa should be multiply by 100

End of certificate

JIRANATEE ASSOCIATES CO.,LTD.
Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd Watthapra, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +66(0)868081812
Mobile: +66(0)3989453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department.

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CALIBRATION 0367

Certificate Number
CWS-022-68

CERTIFICATE OF CALIBRATION

Page 1 of 2 Pages

MEASUREMENT ITEM	: Cup anemometer
MANUFACTURER	: Nowalynx
MODEL/TYPE	: Sensor: WS-02F Data logger: 200-WS-25LB
SERIAL NUMBER	: Sensor: WSD-A5261 Data logger: A5261
ID NUMBER	: BKK_FS0888
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 25 Jul 2025
MEASUREMENT DATE	: 01 Aug 2025
ISSUE DATE	: 01 Aug 2025

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455-12 and pitot tube with precision differential pressure meter model: DPM2500 in close test section of Eiffel-type wind tunnel with 900 cm² cross test section area. The WI-CI-007 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0019-25 and MW-0065-24

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS	: Wind tunnel cross-section area[1]	900	cm²
	Cup anemometer frontal area[2]	100	cm²
	Diameter of mounting pipe[3]	-	mm
	Blockage ratio of test object[4]	0.111	[-]

REVIEW BY
APPROVED BY
NEXT CAL DATE 01/02/27

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.5) °C, (55.2) %RH and (1005.3) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thachalad
☐ Miss Athraporn Lertsomphol

Approved signatory:
Mr. Pannya Booncharoen
Calibration Department Manager

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio "a"

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWS-022-68

MEASUREMENT RESULTS [5]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the boiler plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

v_{std} [4] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	v_{uuc} [5] (m/s)	Error (m/s)	U (k=2) (m/s)
1.000	24.38	24.45	0.8	-0.2	0.31
2.256	24.50	24.45	2.0	-0.3	0.31
3.056	24.50	24.45	3.0	-0.1	0.31
4.254	24.48	24.45	4.0	-0.3	0.31
4.94	24.20	24.45	4.8	-0.1	0.31
6.00	24.66	24.45	5.9	-0.1	0.31
7.01	24.30	24.45	7.0	0.0	0.31
7.99	24.70	24.45	8.0	0.0	0.31
9.00	24.30	24.45	9.0	0.0	0.31
10.00	24.70	24.45	10.1	0.1	0.31
11.00	24.04	24.45	11.1	0.1	0.31
11.99	24.64	24.45	12.2	0.2	0.31
12.98	24.12	24.45	13.3	0.3	0.31
14.04	24.52	24.45	14.3	0.3	0.31
15.04	24.22	24.45	15.3	0.3	0.31
16.02	24.34	24.45	16.3	0.3	0.31

Remark:
[3] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[4] Velocity of standard
[5] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP

Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set-up is not true to scale due to imaging geometry.

*****End of Certificate of Calibration*****

Jiranatee Associates Co., Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7, 7/1, Rd. Wutthapra, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6628680812
Mobile: +6686 3999453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-022-68

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM	: Wind Direction Sensor
MANUFACTURER	: Novalynx
MODEL/TYPE	: Sensor: WS-02F Data logger: 200-WS-25LB
SERIAL NUMBER	: Sensor: WSD- A5261 Data logger: A5261
ID NUMBER	: BKK_FS0888
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 25 Jul 2025
MEASUREMENT DATE	: 01 Aug 2025
ISSUE DATE	: 01 Aug 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010 ± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITION

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	129	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.143	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (23.9)°C, (51.2) %RH and (1003.3) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☐ Mr. Sorawit Thachalad
☑ Miss Jittraporn Lertsomphol

Approved signatory:
Mr. Parinya Booncharoen
Calibration Department Manager

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: AX40207S-DA04-P3-S-GD in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-008 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [1] to [2]

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Certificate Number
CWD-022-68

MEASUREMENT RESULTS[5]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed	D'_{av}	D'_{ave}	Error	U (k=2)
m/s	Degree (°)	Degree (°)	Degree (°)	Degree (°)
	0.000	0	0	0.80
	45.000	41	-4	0.80
	90.000	86	-4	0.80
5.00	135.000	132	-3	0.80
	180.000	181	1	0.80
	225.000	229	4	0.80
	270.000	275	5	0.80
	315.000	320	5	1.34

Remark:
[4] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[5] Direction of standard
[6] Direction of Unit Under Calibration

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7, 7/1, Rd. Wutthapra, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6628680812
Mobile: +6686 3999453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Temperature measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : COT-134-68

MEASUREMENT ITEM	: Data Logger with Temperature sensor
MANUFACTURER	: Novalynx
MODEL/TYPE	: 200-WS-25LB
SERIAL NUMBER	: A5261
ID NUMBER	: BKK_FS0888
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 25 Jul 2025
MEASUREMENT DATE	: 01 Aug 2025
ISSUE DATE	: 01 Aug 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

NOTED: *The certificate is valid only to the item calibrated on date and place of calibration.*

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibration procedure:
The temperature calibration was done by In-House calibration method as WI-CL-001 according to comparison method with standard digital temperature indicator and standard temperature probe. The temperature scale use was based on ITS-90.

Traceability:
The measurement results are traceable to the international system of units (SI) through National Institute of Metrology Thailand (NIMT) Certificate number: TT-1013-25, Certificate number: FR-0061-25.

Reference Used During Calibration:
1. Standard Temperature Probe
Model: STS-100 A500, Serial No.: 667682-09, Due date: 9 Apr 2026
2. Digital Temperature Indicator
Model: DTI-1000-A MK II, Serial No.: 671407-00591 Due date: 22 Apr 2026

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Calibrated by:
☐ Mr. Sorawit Thachalad
☑ Miss Jittraporn Lertsomphol
☐ Miss Ruangrumpai Phoommit

Approved signatory:
Mr. Parinya Booncharoen
Calibration Department Manager

THIS CERTIFICATE MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

JIRANATEE ASSOCIATES CO.,LTD.

Continuation of Certificate of Calibration Number COT-134-68

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Calibration Range: 20 °C to 40 °C

Function:
Table 1: This equipment was connected with temperature sensor Model: HMP60 S/N: N0330783. Dimension: Diameter 12 mm. Length 80 mm.

Immersion Depth (mm)	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Uncertainty (°C)
80	20.057	20.3	0.2	0.099
80	25.044	25.4	0.4	0.099
80	30.027	30.3	0.3	0.099
80	35.011	35.3	0.3	0.099
80	39.996	40.3	0.3	0.099

UUC*; Unit Under Calibration

End of Certificate of Calibration

Jiranatee Associates Co., Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 62/35-36
Petchkasem 7,371, Rd. Wutthapra, Bangkholyai,
Bangkok 10600 (Thailand)
Tel: +66(0)6808312
Mobile: +66(0)7999453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Relative humidity and Air Temperature measurement laboratory
Calibration services department.

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CERTIFICATE OF CALIBRATION

Certificate No. : CRT-019-68

MEASUREMENT ITEM	: Relative humidity with data logger
MANUFACTURER	: Novalynx
MODEL/TYPE	: Data Logger: 200-WS-25LB Sensor: HMP60
SERIAL NUMBER	: Data Logger: A5261 Sensor: N0130783
ID NUMBER	: BKK_FS0088
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 25 Jul 2025
MEASUREMENT DATE	: 01 Aug 2025
ISSUE DATE	: 01 Aug 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

NOTED: *The certificate is valid only to the item calibrated on date and place of calibration.*

Calibration procedure:
The Relative humidity and Air Temperature calibration was done by in-house calibration method as WI-CI-029 and WI-CI-010 according to comparison method with Standard Chilled Mirror hygrometer with Temperature sensor and standard Humidity generator chamber.

Traceability:
The measurements are traceable to the international system of units (SI) through National Institute of Metrology Thailand (NIMT). Certificate number: TH-0146-24 and Jiranatee Associates Co., Ltd. Certificate number: CDT-026-68.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☐ Mr. Sorawit Thachalad
☑ Miss Jittraporn Lertsompiol
☐ Miss Ruangrumpai Phoommit

Approved signatory: _____
Mr. Parinya Buunchaisuen
Calibration Department Manager

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Measurement Results:

The results of calibration and associated measurement uncertainties are reported in the table below.

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Table 1: The results of calibration of relative humidity at 30 °C are reported in table below.
Calibration Range: 20%RH to 80%RH

Air Temperature (°C)	Standard Reading (%RH)	UUC Reading (%RH)	Error (%RH)	Uncertainty ±(%RH)
30.06	20.04	19.1	-0.9	0.78
30.05	50.13	49.3	-0.9	1.3
30.08	80.14	78.8	-1.3	2.1

UUC*: Unit Under Calibration

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 62/35-36
Petchkasem 7,371, Rd. Wutthapra, Bangkholyai,
Bangkok 10600 (Thailand)
Tel: +66(0)6808312
Mobile: +66(0)7999453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department.

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Certificate Number
CWS-012-68

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM	: Cup anemometer
MANUFACTURER	: Novalynx
MODEL/TYPE	: Sensor: WS-02F Data logger: 200 WS-25LB
SERIAL NUMBER	: Sensor: WSD-A4916 Data logger: A4916
ID NUMBER	: BKK_FS0161
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 18 Apr 2025
MEASUREMENT DATE	: 06 May 2025
ISSUE DATE	: 09 May 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

Wind tunnel cross-section area[1]	900	cm^2
Cup anemometer frontal area	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.0) °C, (41.2) %RH and (1008.0) hPa.

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455Q3 and pitot tube with precision differential pressure meter model: DPM2500 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CI-007 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
The certificate provides a traceability of the measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0019-25 and MW-0065-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

REVIEW BY: _____
APPROVED BY: _____
NEXT CAL DATE: 06/11/26

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☐ Mr. Sorawit Thachalad
☑ Miss Jittraporn Lertsompiol

Approved signatory: _____
Mr. Parinya Buunchaisuen
Calibration Department Manager

Remark:
[1] Nozzle cross section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [1] to [2]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWS-013-68

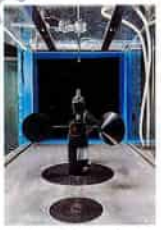
MEASUREMENT RESULTS [1]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the lower plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

v_{std}[2] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	v_{uuc}[3] (m/s)	Error (m/s)	U (k=2) (m/s)
1.020	23.92	23.95	0.9	-0.1	0.31
2.282	24.10	23.95	2.0	-0.3	0.31
3.125	24.10	23.95	3.0	-0.1	0.31
4.316	24.08	23.95	4.0	-0.4	0.31
4.96	24.10	23.95	5.0	0.0	0.31
5.96	24.34	23.95	6.0	0.1	0.31
7.04	24.02	23.95	7.1	0.1	0.31
7.96	24.18	23.95	8.1	0.1	0.31
9.01	23.92	23.95	9.1	0.1	0.31
10.01	23.92	23.95	10.3	0.3	0.31
11.00	24.00	23.95	11.2	0.2	0.31
11.99	23.80	23.95	12.2	0.2	0.31
12.98	24.04	23.95	13.3	0.4	0.31
14.00	23.86	23.95	14.4	0.4	0.31
15.02	24.08	23.95	15.4	0.4	0.31
16.00	23.98	23.95	16.4	0.4	0.31

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Velocity of standard
[3] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP



Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: the proportion of the set-up is not true to scale due to imaging geometry.

End of Certificate of Calibration

Jiranatee Associates Co., Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
68/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Wattharu, Bangkokyai,
Bangkok 10600 (Thailand)
Tel: +6668180812
Mobile: +66863999453
E-mail: jnac.calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-012-68

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM	: Wind Direction Sensor		
MANUFACTURER	: Novalynx		
MODEL/TYPE	: Sensor: WS-02F Data logger: 200-WS-2SLB		
SERIAL NUMBER	: Sensor: WSO-A4916 Data logger: A4916		
ID NUMBER	: BKK_FS0161		
CONDITION AS-RECEIVED	: Used item		
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.		
RECEIVED DATE	: 18 Apr 2025		
MEASUREMENT DATE	: 06 May 2025		
ISSUE DATE	: 09 May 2025		
ENVIRONMENTAL CONDITIONS:			
Ambient condition in the laboratory are as follow:			
Temperature	: 23.0 ± 3.0	°C	
Relative Humidity	: 55.0 ± 15.0	%RH	
Atmospheric Pressure	: 1010 ± 10	hPa	
PLACE OF CALIBRATION	: Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.		
CALIBRATION CONDITION	: Wind tunnel cross-section area[1]	900	cm^2
	Wind direction frontal area[2]	129	cm^2
	Diameter of mounting pipe[3]	-	mm
	Blockage ratio of test object[4]	0.143	[-]
Preconditioning	: 24 hours at ambient conditions.		
Measurement Condition	: The average values during measurement are (24.1)°C, (42.6) %RH and (1006.2) hPa.		

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: AXR3015 DMM-P3-5-U0 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-008 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of the measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data – Guide to the expression of uncertainty in measurement'

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☐ Mr. Sorawit Thabdulad
☑ Miss Jittaporn Lertsompolit

Approved signatory: _____
Mr. Parinya Boonchuroon
Calibration Department Manager

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

MEASUREMENT RESULTS [5]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed	D'_{ref}	D'_{dev}	Error	$U\ (k=2)$
m/s	Degree (°)	Degree (°)	Degree (°)	Degree (°)
5.01	45.000	42	-3	0.80
	90.000	87	-3	0.80
	135.000	133	-2	0.80
	180.000	180	0	0.80
	225.000	227	2	0.80
	270.000	273	3	0.80
	315.000	318	3	0.80
	360.000	359	-1	0.80

Remark:
[5] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[6] Direction of standard
[7] Direction of Unit Under Calibration

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
68/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Wattharu, Bangkokyai,
Bangkok 10600 (Thailand)
Tel: +6668180812
Mobile: +66863999453
E-mail: jnac.calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-061-67

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM	: Wind Direction Sensor		
MANUFACTURER	: Novalynx		
MODEL/TYPE	: Sensor: WS-02F Data logger: 200-WS-2SLB		
SERIAL NUMBER	: Sensor: WSO-A5377 Data logger: A5377		
ID NUMBER	: BKK_FS0917		
CONDITION AS-RECEIVED	: Used item		
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.		
RECEIVED DATE	: 22 Nov 2024		
MEASUREMENT DATE	: 25 Nov 2024		
ISSUE DATE	: 25 Nov 2024		
ENVIRONMENTAL CONDITIONS:			
Ambient condition in the laboratory are as follow:			
Temperature	: 23.0 ± 3.0	°C	
Relative Humidity	: 55.0 ± 15.0	%RH	
Atmospheric Pressure	: 1010± 10	hPa	
PLACE OF CALIBRATION	: Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.		
CALIBRATION CONDITION	: Wind tunnel cross-section area[1]	900	cm^2
	Wind direction frontal area[2]	129	cm^2
	Diameter of mounting pipe[3]	-	mm
	Blockage ratio of test object[4]	0.143	[-]
Preconditioning	: 24 hours at ambient conditions.		
Measurement Condition	: The average values during measurement are (23.7)°C, (50.3) %RH and (1007.9) hPa.		

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: AXR3015 DMM-P3-5-U0 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-008 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of the measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data – Guide to the expression of uncertainty in measurement'

REVIEW BY: Nanchaya P.
APPROVED BY: _____
NEXT CAL DATE: 25/05/26

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thabdulad
☐ Miss Jittaporn Lertsompolit

Approved signatory: _____
Mr. Parinya Boonchuroon
Calibration Department Manager

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

MEASUREMENT RESULTS [5]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed	D'_{ref}	D'_{dev}	Error	$U\ (k=2)$
m/s	Degree (°)	Degree (°)	Degree (°)	Degree (°)
5.02	45.000	41	-4	0.80
	90.000	86	-4	0.80
	135.000	132	-3	0.80
	180.000	181	1	0.80
	225.000	229	4	0.80
	270.000	275	5	0.80
	315.000	320	5	0.80
	360.000	359	-1	0.80

Remark:
[5] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[6] Direction of standard
[7] Direction of Unit Under Calibration

End of Certificate of Calibration

Jiranatee Associates Co., Ltd.

JNAC
JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
69/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Watthana, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6668280312
Mobile: +6686 3399453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department.

ilac-MRA
NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWS-061-67

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM	: Cup anemometer
MANUFACTURER	: Novalynx
MODEL/TYPE	: Sensor: WS-02F Data logger: 200-WS-25LB
SERIAL NUMBER	: Sensor: WSD-A5377 Data logger: A5377
ID NUMBER	: BKK_FS0917
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 22 Nov 2024
MEASUREMENT DATE	: 25 Nov 2024
ISSUE DATE	: 25 Nov 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.9) °C, (43.3) %RH and (1008.2) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thongdee
☐ Miss Jittraporn Lertsomphol

Approved signatory:
Mr. Pariwya Boonchareon
Calibration Department Manager

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455-02 and pilot tube with precision differential pressure meter model: DPM2500 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CI-001 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of the measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0007-24 and MW-0065-24

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data - Guide to the expression of uncertainty in measurement"

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWS-061-67

MEASUREMENT RESULTS[5]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the lower plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

v_{std}[2] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	v_{uuc}[3] (m/s)	Error (m/s)	U (k=2) (m/s)
1.012	24.10	24.90	0.9	-0.2	0.31
2.218	25.58	24.90	2.0	-0.2	0.31
3.050	24.10	24.90	2.9	-0.1	0.31
4.223	24.10	24.90	4.0	-0.2	0.31
4.94	24.10	24.90	5.0	0.0	0.31
5.96	24.60	24.90	6.0	0.0	0.31
7.03	24.10	24.90	7.2	0.1	0.31
7.96	24.34	24.90	8.1	0.1	0.31
8.97	24.10	24.90	9.0	0.1	0.31
9.97	24.18	24.90	9.9	-0.1	0.31
11.03	24.12	24.90	11.2	0.1	0.31
12.03	24.10	24.90	12.1	0.1	0.31
12.92	24.18	24.90	13.0	0.1	0.33
13.92	24.10	24.90	14.0	0.1	0.31
14.98	24.30	24.90	15.1	0.1	0.31
15.98	24.10	24.90	16.1	0.1	0.35

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Velocity of standard
[3] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP

Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set- up is not true to scale due to imaging geometry.

End of Certificate of Calibration

JNAC
JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
69/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Watthana, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6668280312
Mobile: +6686 3399453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department.

ilac-MRA
NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWS-034-68

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM	: Cup anemometer
MANUFACTURER	: Novalynx
MODEL/TYPE	: Sensor: WS-02F Data logger: 200-WS-25LB
SERIAL NUMBER	: Sensor: WSD-A4903 Data logger: A4903
ID NUMBER	: BKK_FS0159
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 07 Nov 2025
MEASUREMENT DATE	: 12 Nov 2025
ISSUE DATE	: 12 Nov 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

: Wind tunnel cross-section area[1]	900	cm^2
Cup anemometer frontal area[2]	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (25.0) °C, (56.4) %RH and (1005.1) hPa.

REVIEW BY:
APPROVED BY:
NEXT CAL DATE: 12/05/27

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thongdee
☐ Miss Jittraporn Lertsomphol

Approved signatory:
Mr. Pariwya Boonchareon
Calibration Department Manager

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455-02 and pilot tube with precision differential pressure meter model: DPM2500 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CI-001 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0019-25 and MW-0059-25

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data - Guide to the expression of uncertainty in measurement"

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWS-034-68

MEASUREMENT RESULTS[5]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the lower plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

v_{std}[2] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	v_{uuc}[3] (m/s)	Error (m/s)	U (k=2) (m/s)
1.005	24.90	25.00	0.9	-0.1	0.31
2.228	25.12	25.00	2.0	-0.2	0.31
3.015	25.06	25.00	2.9	-0.1	0.31
4.228	25.04	25.00	4.0	-0.2	0.31
4.99	25.00	25.00	5.0	0.0	0.31
5.99	25.30	25.00	5.9	0.1	0.31
7.05	25.10	25.00	7.1	0.0	0.31
7.98	25.22	25.00	8.0	0.0	0.31
9.03	25.08	25.00	9.1	0.1	0.31
9.95	25.30	25.00	10.1	0.1	0.36
11.01	25.08	25.00	11.1	0.1	0.31
11.93	25.30	25.00	12.1	0.2	0.31
12.99	25.16	25.00	13.2	0.3	0.32
14.03	25.30	25.00	14.3	0.3	0.34
15.02	25.30	25.00	15.4	0.4	0.34
16.00	25.30	25.00	16.4	0.4	0.35

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Velocity of standard
[3] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP

Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set- up is not true to scale due to imaging geometry.

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
62/14-15, 67/35-36
Petchkasem 7,171, Rd. Wattthapra, Bangkhayai,
Bangkok 10600 (Thailand)
Tel: +66(0)868808312
Mobile: +66(0)2899453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-034-68

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Wind Direction Sensor
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-02F
Data logger: 200-WS-25L6
SERIAL NUMBER : Sensor: WSD- A4903
Data logger: A4903
ID NUMBER : BKK_FS0159
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd,
Khwaeng Suan Luang, Khet Suan Luang,
Bangkok 10250 Thailand.

RECEIVED DATE : 07 Nov 2025
MEASUREMENT DATE : 12 Nov 2025
ISSUE DATE : 12 Nov 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010 ± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITION

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	129	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.143	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.7)°C, (58.4) %RH and (1005.3) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thadsalad
☐ Miss Jittraporn Lertsumphid

Approved signatory:
Mr. Parinya Boonchansen
Calibration Department Manager

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: A2400975 DMSH-P3-5-LIO in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CI-008 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of the measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data – Guide to the expression of uncertainty in measurement'

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

MEASUREMENT RESULTS [5]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed m/s	D°$_{std}$ Degree (°)	D°$_{UUC}$ Degree (°)	Error Degree (°)	U (k=2) Degree (°)
	0.000	0	0	0.62
	45.000	43	-2	0.61
	90.000	88	-2	0.60
5.00	134.999	133	-2	0.89
	180.000	181	1	0.78
	225.000	226	1	0.82
	270.000	271	1	0.89
	315.000	317	2	0.82

Remark:
[4] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[5] Direction of standard
[6] Direction of Unit Under Calibration

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
62/14-15, 67/35-36
Petchkasem 7,171, Rd. Wattthapra, Bangkhayai,
Bangkok 10600 (Thailand)
Tel: +66(0)868808312
Mobile: +66(0)2899453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWS-068-67

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Cup anemometer
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-02EA
Data logger: 110-WS-25DL-II
SERIAL NUMBER : Sensor: WSD-A5969
Data logger: A5969
ID NUMBER : BKK_FS1372
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang,
Khet Suan Luang, Bangkok 10250 Thailand.

RECEIVED DATE : 04 Dec 2024
MEASUREMENT DATE : 18 Dec 2024
ISSUE DATE : 19 Dec 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.5) °C, (53.9) %RH and (1007.7) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thadsalad
☐ Miss Jittraporn Lertsumphid

REVIEW BY:
APPROVED BY:
NEXT CAL DATE: 18/06/26

Approved signatory:
Mr. Parinya Boonchansen
Calibration Department Manager

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455C12 and pitot tube with precision differential pressure meter model: DPM2500 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CI-002 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the International system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: NIM-0027-24 and NIM-0005-24

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

MEASUREMENT RESULTS [5]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the tower plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 5 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

v_{std} [4] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	v_{UUC} [5] (m/s)	Error (m/s)	U (k=2) (m/s)
1.014	24.56	24.45	0.8	-0.2	0.31
2.170	24.58	24.45	2.0	-0.2	0.31
3.038	24.60	24.45	2.9	-0.1	0.31
4.195	24.60	24.45	3.9	-0.3	0.31
4.94	24.30	24.45	4.9	0.0	0.31
5.94	24.50	24.45	5.9	-0.1	0.31
7.01	24.44	24.45	7.0	0.0	0.31
7.96	24.50	24.45	8.0	0.0	0.31
8.96	24.42	24.45	9.0	0.0	0.31
9.97	24.28	24.45	9.9	0.0	0.31
11.03	24.12	24.45	11.0	0.0	0.31
11.99	24.44	24.45	11.9	-0.1	0.31
12.99	24.10	24.45	13.0	0.0	0.31
13.98	24.64	24.45	14.2	0.2	0.31
14.98	24.10	24.45	15.1	0.1	0.31
15.97	24.20	24.45	16.1	0.1	0.31

Remark:
[4] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[5] Velocity of standard
[6] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP

Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set- up is not true to scale due to imaging geometry.

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

JIRANATEE ASSOCIATES CO.,LTD.
Jiranatee Associates Co.,Ltd
44/34-35, 40/35-36
Petchkasem 7,7/1, Rd. Wirtthaya, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +66(0)818801812
Mobile: +66(0)3995053
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department.

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NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-068-67

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Wind Direction Sensor
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-02FA
Data logger: 110-WS-2SDL-D
SERIAL NUMBER : Sensor: WSD-A5969
Data logger: A5969
ID NUMBER : BKK_FS1372
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.

RECEIVED DATE : 04 Dec 2024
MEASUREMENT DATE : 18 Dec 2024
ISSUE DATE : 19 Dec 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITION

: Wind tunnel cross section area[1]	900	cm^2
Wind direction frontal area[2]	126	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.143	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.8)°C, (45.8) %RH and (1006.8) hPa.

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: AMO2S15-D8A04-F3 S-LD in an close test section of Eiffel-type wind tunnel with 300 cm² open test section area. The WS-01-008 based on IEC 61400-12-1, Wind energy generation turbines – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of the measurement to recognized the national standards, and to realization of the international system of units [SI] through the NIMT (National Metrology Institute of Thailand) via Certificate number: TH-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data – Guide to the expression of uncertainty in measurement"

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sopon Thohalad
☐ Miss Jittraporn Lertsompol
☐ Miss Jirungrumpai Phimmorn

Approved signatory:
Mr. Pariwa Roontharoon
Calibration Department Manager

Remark:
[1] Net by cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [1]/[2]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWD-068-67

MEASUREMENT RESULTS [1]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed	D°_{std}	D°_{uuc}	Error	U (k=2)
m/s	Degree (°)	Degree (°)	Degree (°)	Degree (°)
5.02	0.000	0	0	0.80
	45.000	42	-3	0.80
	90.000	87	-3	0.80
	135.000	133	-2	0.80
	180.000	181	1	0.80
	225.000	227	2	0.80
	270.000	273	3	0.80
	315.000	318	3	0.80

Remark:
[1] Calibration results only meant for the tested circumstances and environmental conditions during which calibration took place
[2] Direction of standard
[3] Direction of Unit Under Calibration

"End of Certificate of Calibration"

JIRANATEE ASSOCIATES CO.,LTD.
Jiranatee Associates Co.,Ltd
44/34-35, 40/35-36
Petchkasem 7,7/1, Rd. Wirtthaya, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +66(0)818801812
Mobile: +66(0)3995053
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Temperature measurement laboratory
Calibration services department.

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CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CDT-213-67

MEASUREMENT ITEM : Data Logger with Temperature sensor
MANUFACTURER : Novalynx
MODEL/TYPE : 110-WS-2SDL-D
SERIAL NUMBER : A5969
ID NUMBER : BKK_FS1372
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Suan Luang, Khet Suan Luang,
Bangkok 10250 Thailand.

RECEIVED DATE : 04 Dec 2024
MEASUREMENT DATE : 18 Dec 2024
ISSUE DATE : 19 Dec 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

NOTED: *The certificate is valid only to the item calibrated on date and place of calibration.*

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibration procedure:
The temperature calibration was done by In-House calibration method no. WI-03-001 according to comparison method with standard digital temperature indicator and standard temperature probe. The temperature scale use was based on ITS-90.

Traceability:
The measurement results are traceable to the international system of units (SI) through National Institute of Metrology Thailand (NIMT) Certificate number: TT-0047-24, Certificate number: TH-0113-24.

Reference Used During Calibration:
1. Standard Temperature Probe
Model: STS-100-A500, Serial No.: 6L7682-03,
Due date: 26 Mar 2025
2. Digital Temperature Indicator
Model: DTI-1000-A MK II, Serial No.: 671401-00501 Due date: 21 Oct 2025

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM "Evaluation of measurement data – Guide to the expression of uncertainty in measurement"

Calibrated by:
☐ Mr. Sopon Thohalad
☐ Miss Jittraporn Lertsompol
☑ Miss Jirungrumpai Phimmorn

Approved signatory:
Mr. Pariwa Roontharoon
Calibration Department Manager

THIS CERTIFICATE MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

JIRANATEE ASSOCIATES CO.,LTD.

Continuation of Certificate of Calibration Number CDT-213-67

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Calibration Range: 20 °C to 40 °C

Function:
Table 1: This equipment was connected with temperature sensor Model: HMP60 S/N: V1920288.
Dimension: Diameter 12 mm. Length 80 mm.

Immersion Depth	Standard Reading	UUC Reading	Error	Uncertainty
(mm)	(°C)	(°C)	(°C)	(°C)
80	20.068	19.8	-0.3	0.099
80	25.063	24.8	-0.3	0.099
80	30.054	29.7	-0.4	0.099
80	35.046	34.7	-0.3	0.099
80	40.034	39.5	-0.5	0.099

UUC*: Unit Under Calibration

"End of Certificate of Calibration"

Jiranatee Associates Co., Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 6/35-36
Petchkasem 7,7/1, Rd. Wutthisarn, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6686880812
Mobile: +6686399914
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Relative humidity and Air Temperature measurement laboratory
Calibration services department.

CERTIFICATE OF CALIBRATION

Certificate No. : CRT-059-67

MEASUREMENT ITEM	: Relative humidity with data logger
MANUFACTURER	: Novalynx
MODEL/TYPE	: Data Logger: 110-WS-25DL-D Sensor: HMP60
SERIAL NUMBER	: Data Logger: A5969 Sensor: V1920108
ID NUMBER	: BKK_FS1372
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 04 Dec 2024
MEASUREMENT DATE	: 18 Dec 2024
ISSUE DATE	: 19 Dec 2024

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH

Calibration procedure:
The Relative humidity and Air Temperature calibration was done by "In House" calibration method as WI-CL-003 and WI-CL-010 according to comparison method with Standard Chilled Mirror hygrometer with Temperature sensor and standard Humidity generator chamber.

Traceability:
The measurements are traceable to the international system of units (SI) through National Institute of Metrology Thailand (NIMT). Certificate number: TH-0079-23 and through Jiranatee Associates Co., Ltd. Certificate number: CRT-031-67.

Uncertainty of Measurement:
The reported uncertainty of measurement is stated as the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

NOTED: *The certificate is valid only to the item calibrated on date and place of calibration.*

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☐ Mr. Siriwut Thuchalad
☐ Miss Jiraporn Lertsomphol
☐ Mrs. Kanogporn Thiranont

JNAC JIRANATEE ASSOCIATES CO.,LTD.

Approved signatory:
Mr. Parinya Boonchairoo
Calibration Department Manager

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Measurement Results:

The results of calibration and associated measurement uncertainties are reported in the table below.

Result of Calibration: ☑ Without Adjustment ☐ With Adjustment

Table 1: The results of calibration of relative humidity at 30 °C are reported in table below.
Calibration Range: 20%RH to 80%RH

Air Temperature (°C)	Standard Reading (%RH)	UUC Reading (%RH)	Error (%RH)	Uncertainty ±(%RH)
30.05	75.80	76.7	-1.2	0.78
30.03	49.60	48.8	-0.9	1.3
30.02	79.50	78.9	-0.6	2.1

UUC*: Unit Under Calibration

End of Certificate of Calibration

JNAC JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 6/35-36
Petchkasem 7,7/1, Rd. Wutthisarn, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6686880812
Mobile: +6686399914
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Pressure measurement laboratory
Calibration services department.

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THAILAND NSC - TISI - TIS 17025 CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CPR-035-67

MEASUREMENT ITEM	: Digital barometer
MANUFACTURER	: Novalynx
MODEL/TYPE	: Sensor: 110-WS-25BP Data logger: 110-WS-25DL-D
SERIAL NUMBER	: Sensor: BP-A5969 Data logger: A5969
ID NUMBER	: BKK_FS1372
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: ALS laboratory group (Thailand) Co., Ltd. 104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.
RECEIVED DATE	: 04 Dec 2024
MEASUREMENT DATE	: 18 Dec 2024
ISSUE DATE	: 19 Dec 2024

Calibration procedure:
The Digital barometer was calibrated against Digital pressure calibrator, the WI-CL-003 was used as a calibration guideline.

Traceability:
The measurement results are traceable to the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) as Certificate number: MP 0009-24

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

CONDITION OF THIS RESULT OF CALIBRATION:

1. Reference Standard Instrument:

Instrument	Model	Serial No.	Certificate No.	Due Date
Absolute Pressure Transducer	CPG2500	4109126P	MP 0009-24	27 Dec 2024

2. Calibration effort for calibration sequence C
3. The UUC* was installed in vertical orientation above reference standard instrument and center of UUC* was used as the reference level.
4. Calibration conditions:
   Condition : ☑ Normal ☐ Abnormal
   Pressure transmitting medium : Air
   ρ_a (20°C, 1 bar) : 1.19 kg/m³
   H_{amb} : (59.94±5.39) %
   t_{amb} : (22.8±0.4) °C
   P_{amb} : (1013.41±1.0) mbar
5. The certificate is valid only to the item calibrated on date and place of calibration

Calibrated by:
☑ Mr. Siriwut Thuchalad
☐ Miss Jiraporn Lertsomphol

JNAC JIRANATEE ASSOCIATES CO.,LTD.

Approved signatory:
Mr. Parinya Boonchairoo
Calibration Department Manager

THIS CERTIFICATE REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 6/35-36
Petchkasem 7,7/1, Rd. Wutthisarn, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +6686880812
Mobile: +6686399914
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Pressure measurement laboratory
Calibration services department.

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THAILAND NSC - TISI - TIS 17025 CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : CPR-035-67

MEASUREMENT RESULTS : ☐ Without adjustment ☑ With adjustment

CALIBRATION IN THE RANGE OF : 950 mbar to 1050 mbar

The results of calibration and associated measurement uncertainties are reported in the table below:

STD (mbar)	UUC* (mbar)	Error (mbar)	Uncertainty (k=2) (mbar)
950.03	951.3	1.3	0.28
970.01	970.9	0.9	0.38
990.00	990.6	0.6	0.38
1010.09	1010.1	0.1	0.37
1029.99	1029.6	-0.4	0.37
1049.98	1049.2	-0.8	0.37

Note: UUC* Unit Under Calibration
: To convert the result in report unit to Pa should be multiply by 100

End of certificate

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Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Watthapra, Bangkoknoi,
Bangkok 10600(Thailand)
Tel: +66(0)680812
Mobile: +66(0)399453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWS-020-68

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Cup anemometer
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-02F
Data logger: 200-WS-2SDL
SERIAL NUMBER : Sensor: WSD-A4940
Data logger: A4940
ID NUMBER : BKK_FS0165
CONDITION AS-RECEIVED : Used Item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.

RECEIVED DATE : 25 Jul 2025
MEASUREMENT DATE : 01 Aug 2025
ISSUE DATE : 01 Aug 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

Wind tunnel cross-section area[1]	900	cm^2
Cup anemometer frontal area[2]	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.3) °C, (50.3) %RH and (1005.6) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thachalad
☐ Miss Jittraporn Lertsomphol

Approved signatory:
Mr. Parinya Boonchansen
Calibration Department Manager

REVIEW BY
APPROVED BY
NEXT CAL DATE 01/02/27

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455-S2 and pitot tube with precision differential pressure meter model: DPM2500 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-007 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0019-25 and MW-0065-24

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWS-020-68

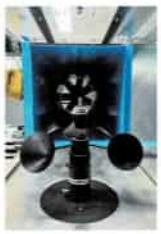
MEASUREMENT RESULTS [5]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the lower plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

v_{std} [6] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	v_{uuc} [7] (m/s)	Error (m/s)	U (k=2) (m/s)
1.008	24.40	24.25	0.8	-0.2	0.31
2.261	24.28	24.25	2.0	-0.3	0.31
3.014	24.29	24.25	2.9	-0.1	0.31
4.268	24.30	24.25	4.0	-0.3	0.31
4.94	24.06	24.25	4.9	-0.1	0.31
5.93	24.70	24.25	5.8	-0.1	0.31
7.00	24.00	24.25	7.0	0.0	0.31
7.99	24.50	24.25	8.1	0.1	0.31
9.00	24.00	24.25	9.1	0.1	0.31
10.00	24.20	24.25	10.2	0.2	0.31
11.01	24.08	24.25	11.2	0.2	0.31
11.99	24.10	24.25	12.2	0.2	0.32
12.97	24.00	24.25	13.2	0.2	0.31
14.02	24.00	24.25	14.3	0.3	0.31
15.03	24.04	24.25	15.3	0.3	0.31
16.02	24.02	24.25	16.4	0.4	0.35

Remark:
[5] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[6] Velocity of standard
[7] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP



Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set- up is not true to scale due to imaging geometry.

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Watthapra, Bangkoknoi,
Bangkok 10600(Thailand)
Tel: +66(0)680812
Mobile: +66(0)399453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-020-68

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Wind Direction Sensor
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-02F
Data logger: 200-WS-2SDL
SERIAL NUMBER : Sensor: WSD- A4940
Data logger: A4940
ID NUMBER : BKK_FS0165
CONDITION AS-RECEIVED : Used Item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd, Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250 Thailand.

RECEIVED DATE : 25 Jul 2025
MEASUREMENT DATE : 01 Aug 2025
ISSUE DATE : 01 Aug 2025

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010 ± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITION

Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	129	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.143	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (23.7)°C, (54.1) %RH and (1003.2) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Sorawit Thachalad
☐ Miss Jittraporn Lertsomphol

Approved signatory:
Mr. Parinya Boonchansen
Calibration Department Manager

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: AX600975-DMD4-P3-S-UD in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-008 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [2] to [1]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWD-020-68

MEASUREMENT RESULTS [5]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed m/s	$D°_{std}$ Degree (°)	$D°_{uuc}$ Degree (°)	Error Degree (°)	U (k=2) Degree (°)
	45.000	41	-4	1.4
	90.000	86	-4	0.80
	135.000	132	-3	0.80
4.99	180.000	182	2	0.80
	225.000	230	5	1.4
	270.000	275	5	1.4
	315.000	321	6	0.80
	360.000	359	-1	0.80

Remark:
[5] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[6] Direction of standard
[7] Direction of Unit Under Calibration

End of Certificate of Calibration

Jiranatee Associates Co., Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Watthapra, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +66(0)868308312
Mobile: +66(0)63099453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Air speed measurement laboratory
Calibration services department

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWS-001-69

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Cup anemometer
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-02F
Data logger: 200-WS-250L
SERIAL NUMBER : Sensor: WSD-A4984
Data logger: A4984
ID NUMBER : BKK_F50167
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd,
Khwaeng Suan Luang, Khet Suan Luang,
Bangkok 10250 Thailand.

RECEIVED DATE : 19 Dec 2025
MEASUREMENT DATE : 05 Jan 2026
ISSUE DATE : 05 Jan 2026

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITIONS

: Wind tunnel cross-section area[1]	900	cm^2
Cup anemometer frontal area[2]	100	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.111	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.6) °C, (47.2) %RH and (1011.1) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Surawit Thaithalad
☐ Miss Jittraporn Lertsomphol

Approved signatory: .....
Mr. Parinya Itooncharoen
Calibration Department Manager

Calibration procedure:
The Cup anemometer was calibrated against Standard air velocity transducer model: 8455IA2 and pitot tube with precision differential pressure meter model: DPM2500 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-008 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0019-25 and MW-0059-25.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

REVIEW BY .....
APPROVED BY .....
NEXT CAL DATE 05/07/27

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [1] to [2]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWS-001-69

MEASUREMENT RESULTS [1]

The Cup anemometer, Unit Under Calibration (UUC) was exercise at 10 m/s for 5 minutes prior to calibration being performed. The standard air velocity 0.5 m/s to 5 m/s was calculated by a standard air velocity transducer which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section and the standard air velocity 5 m/s to 30 m/s was calculated by a pitot tube with precision differential pressure meter which was installed 50 mm away from wind tunnel nozzle and installed 40 mm away from top of the test section, UUC was mounted on a round vertical tube of the lower plate at center of test section. The calibration was carried out under both rising and falling air velocity in the range of 1 m/s to 16 m/s at calibration interval of 1 m/s. The results of calibration and associated measurement uncertainties are reported in the table below.

V_{std} [2] (m/s)	Temp. wind tunnel (°C)	Temp. room (°C)	V_{UUC} [3] (m/s)	Error (m/s)	U (k=2) (m/s)
1.039	24.70	24.60	0.8	-0.2	0.31
2.230	24.46	24.60	2.0	-0.2	0.31
3.017	24.74	24.60	2.9	-0.1	0.31
4.261	24.74	24.60	4.1	-0.2	0.31
4.97	24.50	24.60	4.9	-0.1	0.31
6.03	25.22	24.60	5.9	-0.1	0.31
6.95	24.48	24.60	6.9	0.0	0.31
7.97	25.10	24.60	8.1	0.1	0.36
8.97	24.10	24.60	9.1	0.1	0.44
9.97	24.88	24.60	10.2	0.2	0.49
11.03	24.18	24.60	11.0	0.0	0.34
12.00	24.46	24.60	12.1	0.1	0.37
13.02	24.24	24.60	13.1	0.1	0.35
14.01	24.60	24.60	14.2	0.2	0.45
15.01	24.38	24.60	15.2	0.2	0.69
16.00	24.14	24.60	16.2	0.2	0.66

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Velocity of standard.
[3] Velocity of Unit Under Calibration

PHOTO OF CALIBRATION SET-UP

Calibration set-up of the Cup anemometer calibration in the wind tunnel of Jiranatee Associates Co., Ltd. The Cup anemometer shown may differ from the calibrated one. Remark: The proportion of the set- up is not true to scale due to imaging geometry

End of Certificate of Calibration

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
63/14-15, 67/35-36
Petchkasem 7,7/1, Rd. Wattapra, Bangkokyai,
Bangkok 10600(Thailand)
Tel: +66(0)868308312
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Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Wind direction measurement laboratory
Calibration services department

NSC – TISI – TIS 17025
CALIBRATION 0367

Certificate Number
CWD-001-69

CERTIFICATE OF CALIBRATION

MEASUREMENT ITEM : Wind Direction Sensor
MANUFACTURER : Novalynx
MODEL/TYPE : Sensor: WS-02F
Data logger: 200-WS-250L
SERIAL NUMBER : Sensor: WSD- A4984
Data logger: A4984
ID NUMBER : BKK_F50167
CONDITION AS-RECEIVED : Used item
CUSTOMER : ALS laboratory group (Thailand) Co., Ltd.
104 Phatthanakan 40, Phatthanakan Rd,
Khwaeng Suan Luang, Khet Suan Luang,
Bangkok 10250 Thailand.

RECEIVED DATE : 19 Dec 2025
MEASUREMENT DATE : 05 Jan 2026
ISSUE DATE : 05 Jan 2026

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010 ± 10	hPa

PLACE OF CALIBRATION : Eiffel-type wind tunnel of Jiranatee Associates Co., Ltd.

CALIBRATION CONDITION

: Wind tunnel cross-section area[1]	900	cm^2
Wind direction frontal area[2]	129	cm^2
Diameter of mounting pipe[3]	-	mm
Blockage ratio of test object[4]	0.143	[-]

Preconditioning : 24 hours at ambient conditions.
Measurement Condition : The average values during measurement are (24.7)°C, (64.1) %RH and (1007.7) hPa.

TABULATION OF RESULTS:
The table on next page give the measured values.

Calibrated by:
☑ Mr. Surawit Thaithalad
☐ Miss Jittraporn Lertsomphol

Approved signatory: .....
Mr. Parinya Itooncharoen
Calibration Department Manager

Calibration procedure:
The wind direction sensor was calibrated against Standard Rotary Encoder model: AS40DTS DM34-P3-5-00 in an close test section of Eiffel-type wind tunnel with 900 cm^2 cross test section area. The WI-CL-008 based on IEC 61400-12-1, Wind energy generation systems – Part 12-1: Power performance measurements of electricity producing wind turbines, March 2017 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of The measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: DA-0027-24.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

Remark:
[1] Nozzle cross-section area of the wind tunnel
[2] Projected cross-section area of the tested object include mounting pipe
[3] Diameter of mounting pipe
[4] Ratio [1] to [2]

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Certificate Number
CWD-001-69

MEASUREMENT RESULTS [1]

The wind direction sensor was calibrated against standard rotary encoder by comparison method. During calibration, the measurement was carried out at 45° intervals in clockwise and counterclockwise directions after offset adjustment has been made. The flow speed of wind tunnel (usually 5 m/s) is kept constant while the sensor is rotated around its vertical axis. The results of calibration and associated measurement uncertainties are reported in the table below.

Air speed m/s	D°_{std} Degree (°)	D°_{UUC} Degree (°)	Error Degree (°)	U (k=2) Degree (°)
5.02	45.000	41	-4	0.60
	90.000	86	-4	0.60
	135.000	132	-3	0.60
	180.000	178	-2	0.82
	225.000	226	1	0.82
	270.000	273	3	0.82
	315.000	320	5	0.82
	360.000	359	-1	0.60

Remark:
[1] Calibration results only count for the tested circumstances and environmental conditions during which calibration took place
[2] Direction of standard
[3] Direction of Unit Under Calibration

End of Certificate of Calibration

Jiranatee Associates Co., Ltd.

SITHIPORN ASSOCIATES CO., LTD.
CALIBRATION LABORATORY
451-451/1 Sirinthorn Road, Bangbumru, Bangplad, Bangkok, 10700 Thailand
Tel. +66 2433 8331 Email : calibration@sithiphorn.com

Cert. No. : ACC25077
Pages : 1 of 3

Calibration Certificate

Equipment :	SOUND CALIBRATOR
Manufacturer :	RION
Model :	NC-74
Serial No.:	34425567
ID No.:	BKK_FS0618

REVIEW BY
APPROVED BY
NEXT CAL DATE 23/11/26

Condition As Found : GOOD

Customer : ALS LABORATORY GROUP (THAILAND) CO., LTD.
104 PHATTHANAKAN 40, PHATTHANAKAN ROAD,
KHWAENG PHATTHANAKAN, KHET SUAN LUANG,
BANGKOK, 10250 THAILAND.

Location :	-	
Ambient Temperature :	(23.0 ±3)	°C
Pressure :	(101.3 ±3)	kPa
Relative Humidity :	(50.0 ±20)	%

Received Date : 12 NOVEMBER 2025
Calibration Date : 24 NOVEMBER 2025
Date of Issue : 25 NOVEMBER 2025

Calibrated by : Nathakorn Pisutpaisan

Approved by :
(Nitinun Srihawan)

This certificate is issued in accordance with the requirements of ISO/IEC 17025 standard, may not be reproduced other than in full, except with the prior written approval of the head of Calibration Laboratory.

Cert. No. : ACC25077
Job No. : VC69AC0032
Pages : 2 of 3

Calibration Procedure : CP-AC-03

Calibration Method :
This equipment was calibrated by follow on IEC-60942-2003 Standard.
The sound pressure level, frequency and total distortion of the sound calibrator was measured using the reference microphone.

Condition of this result of calibration :
1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEL_BP 24/0268	22-APR-26
Digital Multimeter	33461A	MY53220076	EEL_BP 23/0268	22-APR-26
Digital Multimeter	33461A	MY60024273	CA2025126EA	18-MAR-26
Programmable Attenuator	MAT-1070	62100114	EF-0006-25	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26
Audio Analyzer	AVR-3360A	V744B6069	EF-0013-25	13-FEB-26

2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   3.1 National Institute of Metrology (Thailand).
   3.2 Thailand Institute of Scientific and Technological Research (TISTR).
   3.3 Electrical And Electronics Institute (EEI).

Cert. No. : ACC25077
Job No. : VC69AC0032
Pages : 3 of 3

Result of calibration :

1. Sound pressure level

Specified sound pressure level (dB)	Measured value (dB)	Deviated value (dB)	Uncertainty (dB)	Acceptance limit (dB)
94	94.03	0.03	0.14	0.40

2. Frequency

Specified Frequency (Hz)	Measured value (Hz)	Deviated value (%)	Uncertainty (%)	Acceptance limit (%)
1000	1004.4	0.4	0.1	1.0

3. Total distortion

Measured value (%)	Uncertainty (%)	Acceptance limit (%)
2.09	0.10	3.0

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor $k = 2$ or any value following calculation,providing a level of confidence of approximately 95 %

End of Calibration Certificate

SITHIPORN ASSOCIATES CO., LTD.
CALIBRATION LABORATORY
451-451/1 Sirinthorn Road, Bangbumru, Bangplad, Bangkok, 10700 Thailand
Tel. +66 2433 8331 Email : calibration@sithiphorn.com

Cert. No. : ACL25283
Pages : 1 of 8

Calibration Certificate

Equipment :	SOUND LEVEL METER
Manufacturer :	RION
Model :	NL-42 / Microphone UC-52 / Preamplifier NH-24
Serial No.:	01022262 / 180410 / 22310
ID No.:	BKK_FS0031

REVIEW BY
APPROVED BY
NEXT CAL DATE 20/07/26

Condition As Found : GOOD

Customer : ALS LABORATORY GROUP (THAILAND) CO., LTD.
104 PHATTHANAKAN 40, PHATTHANAKAN ROAD,
KHWAENG PHATTHANAKAN, KHET SUAN LUANG,
BANGKOK, 10250 THAILAND.

Location :	-	
Ambient Temperature :	(23.0 ±3)	°C
Pressure :	(101.3 ±3)	kPa
Relative Humidity :	(50.0 ±20)	%

Received Date : 07 JULY 2025
Calibration Date : 21-23 JULY 2025
Date of Issue : 25 JULY 2025

Calibrated by : Nathakorn Pisutpaisan

Approved by :
(Wichok Ekpongpradit)

This certificate is issued in accordance with the requirements of ISO/IEC 17025 standard, may not be reproduced other than in full, except with the prior written approval of the head of Calibration Laboratory.

Cert. No. : ACL25283
Job No. : VC68AC0144
Pages : 2 of 8

Calibration Procedure : CP-AC-01

Calibration Method :

This equipment was calibrated by follow on IEC-61672-3 (2013) Standard for sound level meter (SLM).
The SLM had tests to Acoustical and Electrical signal tests of frequency weighting with Anechoic chamber and Reference Standard Instruments.
For tests results of each items were made by observation of each Instruments display and also with SLM's display.

Condition of this result of calibration :

1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33210A	MY48017076	EF-0011-25	11-FEB-26
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEL.BP 24/0268	22-APR-26
Digital Multimeter	33461A	MY53220076	EEL.BP 23/0268	22-APR-26
Digital Multimeter	34461A	MY60024273	CA2025120EA	18-MAR-26
Programmable Attenuator	MAT-1070	62100114	EF-0006-25	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26

2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   3.1 National Institute of Metrology (Thailand).
   3.2 Thailand Institute of Scientific and Technological Research (TISTR).
   3.3 Electrical And Electronics Institute (EEI).

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Cert. No. : ACL25283
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Pages : 3 of 8

Summary of Measurement Result :

Parameter	Uncertainty (dB)	Maximum-permitted uncertainty of measurement (dB)
1. Absolute sensitivity	0.2	N/A
2. Self-generated noise	0.2	N/A
3. Acoustical signal tests of frequency weightings		
125 Hz	0.3	0.6
1000 Hz	0.3	0.6
8000 Hz	0.3	0.7
4. Electrical signal tests of frequency weightings		
For 10 Hz to 4 kHz	0.3	0.6
For > 4 kHz to 10 kHz	0.3	0.7
For > 10 kHz to 20 kHz	0.3	1.0
5. Frequency and time weightings at 1 kHz	0.2	0.2
6. Long - term stability	0.1	0.1
7. Level linearity on the reference level range	0.2	0.3
8. Level linearity including the level range control	0.2	0.3
9. Tone burst response	0.2	0.3
10. Peak C sound level	0.2	0.35
11. Overload indication	0.2	0.25
12. High level stability	0.1	0.1

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Result of calibration :

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured Value (dB)	Deviation (dB)	Acceptance Limit (dB)
93.9 (93.94)	93.9	0.0	±0.3

2. Self-generated noise

2.1 Normal test

Measured Value (dB)
23.50000003

2.2 The microphone of the sound level meter was replaced by electrical signal input device.

Frequency Weighting	Weighting (dB)
A - weight	10.8
C - weight	17.1
Flat	22.7

3. Acoustical signal tests of frequency weightings

Meter free-field acoustic response at a level of 84 dB

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
125	-0.7	-0.7	-0.7	± 1.5
1000	0.0	0.0	0.0	± 1.0
8000	0.1	0.2	0.1	±5.0

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Cert. No. : ACL25283
Job No. : VC68AC0144
Pages : 5 of 8

4. Electrical signal tests of frequency weightings

Weighting network response with relative to 1 kHz.

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
63	-0.1	-0.1	0.0	±2.0
125	0.0	0.0	0.0	±1.5
250	0.0	0.0	-0.1	±1.5
500	0.0	0.0	-0.1	±1.5
1000	0.0	0.0	0.0	±1.0
2000	0.0	0.0	0.0	±2.0
4000	0.0	0.0	0.0	±3.0
8000	0.0	0.1	0.1	±5.0

5. Frequency and time weightings at 1 kHz

5.1 Frequency weightings at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.2
C - weight	94.0	94.0	0.0	± 0.2
Flat	94.0	94.0	0.0	± 0.2

5.2 Time weighting at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	94.0	94.0	0.0	± 0.1
Slow	94.0	94.0	0.0	± 0.1
Leq	94.0	94.0	0.0	± 0.1

6. Long - term stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.3

Cert. No. : ACL25283
Job No. : VC68AC0144
Pages : 6 of 8

7. Level linearity on the reference level range

Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
137.0	137.0	0.0	± 1.1
136.0	136.0	0.0	± 1.1
135.0	135.0	0.0	± 1.1
134.0	134.0	0.0	± 1.1
133.0	132.9	-0.1	± 1.1
132.0	131.9	-0.1	± 1.1
131.0	130.9	-0.1	± 1.1
129.0	129.0	0.0	± 1.1
124.0	124.0	0.0	± 1.1
119.0	119.0	0.0	± 1.1
114.0	114.0	0.0	± 1.1
109.0	109.0	0.0	± 1.1
104.0	104.0	0.0	± 1.1
99.0	99.0	0.0	± 1.1
94.0	94.0	0.0	± 1.1
89.0	89.0	0.0	± 1.1
84.0	84.0	0.0	± 1.1
79.0	79.0	0.0	± 1.1
74.0	74.0	0.0	± 1.1
69.0	69.0	0.0	± 1.1
64.0	64.0	0.0	± 1.1
59.0	59.0	0.0	± 1.1
54.0	54.0	0.0	± 1.1
49.0	49.0	0.0	± 1.1
44.0	44.0	0.0	± 1.1
39.0	39.0	0.0	± 1.1
34.0	34.0	0.0	± 1.1
30.0	29.9	-0.1	± 1.1
29.0	29.0	0.0	± 1.1
28.0	27.9	-0.1	± 1.1
27.0	26.9	-0.1	± 1.1
26.0	25.9	-0.1	± 1.1
25.0	24.9	-0.1	± 1.1

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Pages : 7 of 8

8. Level linearity including the level range control

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	94.0	94.0	0.0	±1.1

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	29.0	28.9	-0.1	±1.1

9. Tone burst response

Time Weighting	Tone burst duration, Tb (ms)	Cycle	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	0.25	1	108.0	107.9	-0.1	1.5 ; -5.0
	2	8	117.0	117.0	0.0	1.0 ; -2.5
	200	800	134.0	134.0	0.0	±1.0
Slow	2	8	108.0	108.0	0.0	1.0 ; -5.0
	200	800	127.6	127.6	0.0	±1.0
SEL	0.25	1	99.0	98.9	-0.1	1.5 ; -5.0
	2	8	108.0	108.0	0.0	1.0 ; -2.5
	200	800	128.0	128.0	0.0	±1.0

Cert. No. : ACL25283
Job No. : VC68AC0144
Pages : 8 of 8

10. Peak C sound level

Number of cycle in test signal	Anticipated Value (dB)	Measured Value, Lcpeak (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	130.0	130.0	0.0	±3.0
One	133.4	133.4	0.0	±3.0

Number of cycle in test signal	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	133.0	133.0	0.0	±2.0
Positive half cycle	135.4	135.1	-0.3	±2.0
Negative half cycle	135.4	135.2	-0.2	±2.0

11. Overload indication

Measured value (dB)		Deviated Value (dB)	Acceptance Limits (dB)
Positive one-half cycle	Negative one-half cycle		
89.5	89.5	0.0	±1.5

12. High level stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	137.0	137.0	0.0	±0.3

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor $k = 2$ or any value following calculation,providing a level of confidence of approximately 95 %

End of Calibration Certificate

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AMPHOE BANG PHLI SAMUT PRAKAN PROVINCE 10540 THAILAND
TEL: (6630-2116-5800-1 FAX: (6630-2116-7140

Certificate of Calibration

Customer

Name : ALS Laboratory Group Thailand Co., Ltd.
Address : 104 Soi Phatthanakan 40, Phatthanakan Road, Suan Luang, Bangkok 10250

Certificate No : 25-SLM-148
Request No : Req-2025-0773

Unit Under Calibration Details

Measurement item : Sound Level Meter
Manufacturer : RION
Model : NL-42
Serial Number : 00296511
ID : IKK_IS0068
Resolution : 0.1 dB

Microphone Class : 2
Microphone Model : UC-52
Microphone S/N : 179112
Preamplifier Model : NH-24
Preamplifier S/N : 87520
Instrument Status : Used

Calibration Environment and Details

Temperature : 23 °C ± 2 °C
Humidity : 50 %RH ± 20 %RH
Barometric Pressure : 1013 hPa ± 10 hPa
Received Date : 28 March 2025
Calibrated Date : 28 April 2025
Calibration Procedure : In-house method CP-SLM-01 based on IEC 61672-3 : 2013 Electroacoustics - Sound level meters - Part 3: Periodic tests
Location of Calibration : Lab Acoustic

REVIEW BY
APPROVED BY
NEXT CAL DATE 28/04/26

Reference Standard

Instrument	Brand	Model	SN.	Due calibration	Traceability
Standard Microphone	Bruel&Kjaer	4192	2294085	25 June 2025	NIMT
Audio Generator	Svantek	Svan401	151	15 October 2025	WK Electric

Note

The reported uncertainty is based on standard uncertainty multiplied by the Coverage Factor $k = 2$, providing a level of confidence approximately 95 %.

Calibrated By : Mr. Noppadon Luangsri, Service Calibration Engineer

Approved By : Mr. Pacit Malharvorn, Calibration Engineer Supervisor

Issue Date : 28 April 2025

The results related only to the item calibrated. The certificate shall not be reproduced except in full, without written approval of the Innovative Instrument Co., Ltd.

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Certificate No : 25-SLM-148
Request No : Req-2025-0773

1. Indication at the calibration check frequency

UUC Setting	Nominal	Before Adjust		After Adjust		UNCERTAINTY
FAST / A / 30-130	Level	UUC	ERR	UUC	ERR	
Calibrator Setting	(dB)	(dB)	(dB)	(dB)	(dB)	(± dB)
1000 Hz 94 dB	93.77	93.5	-0.27	93.8	0.03	0.20

Note : Absolute sensitivity was established by the use of Sound Calibrator Brand Svantek, Model SV35A, SN. 58079

2. Self-generated noise, Microphone installed

UUC Setting	Measured	UNCERTAINTY
FAST / 30-130		
UUC Weighting	(dB)	(± dB)
A	14.9	0.10

3. Self-generated noise, Microphone replaced by the electrical input signal device

UUC Setting	Measured	UNCERTAINTY
FAST / 30-130		
UUC Weighting	(dB)	(± dB)
A	11.5	0.10
C	15.9	0.10
Z	19.9	0.10

4. Acoustic signal test of frequency weightings (Without Windscreen)

UUC Setting	Deviation from various Frequency Weighting Respone curve			UNCERTAINTY
FAST / 30-130	A	C	Z	
STD Setting	(dB)	(dB)	(dB)	(± dB)
125 Hz	0.5	0.7	0.7	0.60
1000 Hz	0.0	0.0	0.0	0.60
4000 Hz	-1.4	-1.4	-1.5	0.60
8000 Hz	-3.1	-3.0	-2.9	0.70

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Certificate No : 25-SLM-148
Request No : Req-2025-0773

5. Electrical signal test of frequency weightings, Weighting network respone with relative to 1 kHz

UUC Setting	Deviation from various Frequency Weighting Respone curve			UNCERTAINTY
FAST / 30-130				
STD Setting	A (dB)	C (dB)	Z (dB)	(± dB)
63 Hz	-0.3	-0.2	-0.1	0.20
125 Hz	-0.2	0.0	-0.1	
250 Hz	-0.1	-0.1	-0.1	
500 Hz	-0.1	0.0	0.0	
1000 Hz	0.0	0.0	0.0	
2000 Hz	0.0	0.0	0.0	
4000 Hz	0.0	0.0	0.0	
8000 Hz	0.0	0.0	0.0	
16000 Hz	-1.4	-1.4	0.0	

6. Frequency and time weightings at 1kHz

UUC Setting	STD	Measured		UNCERTAINTY
FAST / 30-130	REF	UUC	ERR	
UUC Weighting	(dB)	(dB)	(dB)	(± dB)
A	114.00	114.0	0.0	0.20
C	114.00	114.0	0.0	
Z	114.00	114.0	0.0	

UUC Setting	STD	Measured		UNCERTAINTY
30-130 / A	REF	UUC	ERR	
UUC Time Respone	(dB)	(dB)	(dB)	(± dB)
Fast	114.00	114.0	0.0	0.20
Slow	114.00	114.0	0.0	
Leq	114.00	114.0	0.0	

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FM-708-SLM-01 Rev.00 Issue date 17/2/25

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TEL: (66)0-2116-5860-1 FAX: (66)0-2116-7140

Certificate No : 25-SLM-148
Request No : Req-2025-0773

7. Long Term Stability

UUC Setting	Measured	UNCERTAINTY
FAST / A / 30-130	UUC	
STD Setting	(dB)	(± dB)
Initial	114.0	[redacted]
Final	114.0	
Deviated	0.0	0.10

8. Level linearity on the reference level range

UUC Setting	Anticipated	Deviation		UNCERTAINTY
FAST / A / 30-130	REF	UUC	ERR	
STD dB	(dB)	(dB)	(dB)	(± dB)
138.00	138	138.0	0.0	0.30
134.00	134	134.0	0.0	
129.00	129	129.0	0.0	
124.00	124	124.0	0.0	
119.00	119	119.0	0.0	
114.00	114	114.0	0.0	
109.00	109	109.0	0.0	
104.00	104	104.0	0.0	
99.00	99	99.0	0.0	
94.00	94	94.0	0.0	
89.00	89	89.0	0.0	
84.00	84	84.0	0.0	
79.00	79	79.0	0.0	
74.00	74	74.0	0.0	
69.00	69	69.0	0.0	
64.00	64	64.0	0.0	
59.00	59	59.0	0.0	
54.00	54	54.0	0.0	
49.00	49	49.0	0.0	
44.00	44	44.1	0.1	
39.00	39	39.0	0.0	
34.00	34	34.1	0.1	
29.00	29	29.0	0.0	
24.00	24	23.9	-0.1	

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FM-708-SLM-01 Rev.00 Issue date 17/2/25

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Certificate No : 25-SLM-148
Request No : Req-2025-0773

9. Level linearity including the level range control

UUC Setting	STD	Measured		UNCERTAINTY
FAST / A	REF	UUC	ERR	
UUC Range	(dB)	(dB)	(dB)	(± dB)
30-130	29.50	29.6	0.1	0.30
	114	114.0	0.0	

10. Tone burst response

UUC Setting	STD	Anticipated	Measured		UNCERTAINTY
A / 30-130	Toneburst	Ref	UUC	ERR	
UUC Time Respone	(ms)	(dB)	(dB)	(dB)	(± dB)
Fast	200	126.0	126.0	0.0	0.20
	2	109.0	108.9	-0.1	
	0.25	100.0	99.9	-0.1	
Slow	200	119.6	119.5	-0.1	
	2	100.0	99.9	-0.1	
SEL	200	120.0	120.0	0.0	
	2	100.0	100.0	0.0	
	0.25	91.0	90.8	-0.2	

11. Peak C Sound level

UUC Setting	Anticipated	Measured		UNCERTAINTY
FAST / C / 35-141	REF	UUC	ERR	
STD Setting	(dB)	(dB)	(dB)	(± dB)
Complete cycle	136.4	136.3	-0.10	0.20
Positive half cycle	135.4	135.1	-0.30	
Negative half cycle	135.4	135.1	-0.30	

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FM-708-SLM-01 Rev.00 Issue date 17/2/25

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TEL: (668)-2116-5860-1 FAX: (668)-2116-7140

Certificate No : 25-SLM-148
Request No : Req-2025-0773

12. Overload indication

UUC Setting	Measured	UNCERTAINTY
FAST / A / 30-130	UUC	
STD Setting	(dB)	(± dB)
Positive one-half cycle	139.4	[redacted]
Negative one-half cycle	139.4	
Deviated	0.0	0.20

13. High Level Stability

UUC Setting	Measured	UNCERTAINTY
FAST / A / 30-130	UUC	
STD Setting	(dB)	(± dB)
Initial	129.0	[redacted]
Final	129.0	
Deviated	0.0	0.10

End of Certificate

The results related only to the item calibrated. The certificate shall not be reproduced except in full, without written approval of the Innovative Instrument Co., Ltd.
FM-708-SLM-01 Rev.00 Issue date 17/2/25

SITHIPORN ASSOCIATES CO., LTD.
CALIBRATION LABORATORY
459-451/1 Sirinthorn Road, Bangbumru, Bangplad, Bangkok, 10700 Thailand
Tel. +66 2433 8331 Email : calibration@sithiporn.com

Cert. No. : ACL26092
Pages : 1 of 8

Calibration Certificate

Equipment : SOUND LEVEL METER
Manufacturer : RION
Model : NL-42 / Microphone UC-52 / Preamplifier NH-24
Serial No.: 00658239 / 157780/ 48095
ID No.: BKK_FS0096

Condition As Found : GOOD

Customer : ALS LABORATORY GROUP (THAILAND) CO., LTD.
104 PHATTHANAKAN 40, PHATTHANAKAN ROAD,
KHWAENG PHATTHANAKAN, KHET SUAN LUANG,
BANGKOK, 10250 THAILAND.

Location : -
Ambient Temperature : (23.0 ± 3) °C
Pressure : (101.3 ± 3) kPa
Relative Humidity : (50.0 ± 20) %

REVIEW BY Nonkorn P.
APPROVED BY
NEXT CAL DATE 26/01/27

Received Date : 12 JANUARY 2026
Calibration Date : 27 JANUARY 2026
Date of Issue : 28 JANUARY 2026

Calibrated by : Nathakorn Pisutpaisan

Approved by : Nitinun Srihawan

(Nitinun Srihawan)

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Cert. No. : ACL26092
Job No. : VC69AC0057
Pages : 2 of 8

Calibration Procedure : CP-AC-01

Calibration Method :
This equipment was calibrated by follow on IEC-61672-3 (2013) Standard for sound level meter (SLM).
The SLM had tests to Acoustical and Electrical signal tests of frequency weighting with Anechoic chamber and Reference Standard Instruments.
For tests results of each items were made by observation of each Instruments display and also with SLM's display.

Condition of this result of calibration :
1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33210A	MY48017076	EF-0011-25	11-FEB-26
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEL.BP 24/0268	22-APR-26
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Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26

2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   3.1 National Institute of Metrology (Thailand).
   3.2 Thailand Institute of Scientific and Technological Research (TISTR).
   3.3 Electrical And Electronics Institute (EEI).

Cert. No. : ACL26092
Job No. : VC69AC0057
Pages : 3 of 8

Summary of Measurement Result :

Parameter	Uncertainty (dB)	Maximum-permitted uncertainty of measurement (dB)
1. Absolute sensitivity	0.2	N/A
2. Self-generated noise	0.2	N/A
3. Acoustical signal tests of frequency weightings		
125 Hz	0.3	0.6
1000 Hz	0.3	0.6
8000 Hz	0.3	0.7
4. Electrical signal tests of frequency weightings		
For 10 Hz to 4 kHz	0.3	0.6
For > 4 kHz to 10 kHz	0.3	0.7
For > 10 kHz to 20 kHz	0.3	1.0
5. Frequency and time weightings at 1 kHz	0.2	0.2
6. Long - term stability	0.1	0.1
7. Level linearity on the reference level range	0.2	0.3
8. Level linearity including the level range control	0.2	0.3
9. Tone burst response	0.2	0.3
10. Peak C sound level	0.2	0.35
11. Overload indication	0.2	0.25
12. High level stability	0.1	0.1

Cert. No. : ACL26092
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Result of calibration :

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured Value (dB)	Deviation (dB)	Acceptance Limit (dB)
93.9 (93.94)	93.9	0.0	±0.3

2. Self-generated noise

2.1 Normal test

Measured Value (dB)
17.2

2.2 The microphone of the sound level meter was replaced by electrical signal input device.

Frequency Weighting	Weighting (dB)
A - weight	12.5
C - weight	18.5
Flat	24.3

3. Acoustical signal tests of frequency weightings

Meter free-field acoustic response at a level of 84 dB

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
125	0.4	0.4	0.3	± 1.5
1000	0.1	0.1	0.1	± 1.0
8000	-0.4	-0.4	-0.3	±5.0

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4. Electrical signal tests of frequency weightings

Weighting network response with relative to 1 kHz.

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
63	-0.2	0.0	-0.1	±2.0
125	-0.1	0.1	-0.1	±1.5
250	-0.1	0.0	-0.1	±1.5
500	0.0	0.1	-0.1	±1.5
1000	-0.1	0.0	0.0	±1.0
2000	0.0	0.1	0.0	±2.0
4000	0.0	0.1	0.0	±3.0
8000	0.0	0.1	0.0	±5.0

5. Frequency and time weightings at 1 kHz

5.1 Frequency weightings at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.2
C - weight	94.0	94.0	0.0	± 0.2
Flat	94.0	94.0	0.0	± 0.2

5.2 Time weighting at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	94.0	94.0	0.0	± 0.1
Slow	94.0	94.0	0.0	± 0.1
Leq	94.0	94.0	0.0	± 0.1

6. Long - term stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.1	0.1	± 0.3

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7. Level linearity on the reference level range

Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
137.0	137.0	0.0	± 1.1
136.0	136.0	0.0	± 1.1
135.0	135.0	0.0	± 1.1
134.0	134.1	0.1	± 1.1
133.0	133.0	0.0	± 1.1
132.0	132.0	0.0	± 1.1
131.0	131.0	0.0	± 1.1
129.0	129.0	0.0	± 1.1
124.0	124.0	0.0	± 1.1
119.0	119.1	0.1	± 1.1
114.0	114.1	0.1	± 1.1
109.0	109.0	0.0	± 1.1
104.0	104.1	0.1	± 1.1
99.0	99.0	0.0	± 1.1
94.0	94.0	0.0	± 1.1
89.0	89.0	0.0	± 1.1
84.0	84.0	0.0	± 1.1
79.0	79.0	0.0	± 1.1
74.0	74.0	0.0	± 1.1
69.0	69.0	0.0	± 1.1
64.0	64.0	0.0	± 1.1
59.0	59.0	0.0	± 1.1
54.0	54.0	0.0	± 1.1
49.0	49.0	0.0	± 1.1
44.0	44.0	0.0	± 1.1
39.0	39.0	0.0	± 1.1
34.0	34.0	0.0	± 1.1
30.0	30.0	0.0	± 1.1
29.0	29.0	0.0	± 1.1
28.0	28.0	0.0	± 1.1
27.0	26.9	-0.1	± 1.1
26.0	25.9	-0.1	± 1.1
25.0	24.9	-0.1	± 1.1

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8. Level linearity including the level range control

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	94.0	94.0	0.0	±1.1

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	29.0	28.9	-0.1	±1.1

9. Tone burst response

Time Weighting	Tone burst duration, Tb (ms)	Cycle	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	0.25	1	108.0	107.9	-0.1	1.5 ; -5.0
	2	8	117.0	116.9	-0.1	1.0 ; -2.5
	200	800	134.0	134.0	0.0	±1.0
Slow	2	8	108.0	107.9	-0.1	1.0 ; -5.0
	200	800	127.6	127.6	0.0	±1.0
SEL	0.25	1	99.0	98.8	-0.2	1.5 ; -5.0
	2	8	108.0	108.0	0.0	1.0 ; -2.5
	200	800	128.0	128.0	0.0	±1.0

Cert. No. : ACL26092
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10. Peak C sound level

Number of cycle in test signal	Anticipated Value (dB)	Measured Value, Lcpeak (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	130.0	130.0	0.0	±3.0
One	133.4	133.4	0.0	±3.0

Number of cycle in test signal	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	133.0	133.0	0.0	±2.0
Positive half cycle	135.4	135.1	-0.3	±2.0
Negative half cycle	135.4	135.1	-0.3	±2.0

11. Overload indication

Measured value (dB)		Deviated Value (dB)	Acceptance Limits (dB)
Positive one-half cycle	Negative one-half cycle		
89.5	89.5	0.0	±1.5

12. High level stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	137.0	137.0	0.0	±0.3

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor $k = 2$ or any value following calculation,providing a lavel of confidence of approximately 95 %

End of Calibration Certificate

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CALIBRATION LABORATORY
459-459/1 Sirinthorn Road, Bangburnru, Bangplud, Bangkok, 10700 Thailand
Tel. +66 2433 8031 Email : calibration@sithiporn.com

Cert. No. : ACL26056
Pages : 1 of 8

Calibration Certificate

Equipment :	SOUND LEVEL METER
Manufacturer :	RION
Model :	NL-42 / Microphone UC-52 / Preamplifier NH-24
Serial No.:	00572457 / 170214 / 72795
ID No.:	BKK_FS0923
Condition As Found :	GOOD
Customer :	ALS LABORATORY GROUP (THAILAND) CO., LTD. 104 PHATTHANAKAN 40, PHATTHANAKAN ROAD, KHWAENG PHATTHANAKAN, KHET SUAN LUANG, BANGKOK, 10250 THAILAND.
Location :	-
Ambient Temperature :	(23.0 ± 3) °C
Pressure :	(101.3 ± 3) kPa
Relative Humidity :	(50.0 ± 20) %
Received Date :	05 JANUARY 2026
Calibration Date :	15 - 16 JANUARY 2026
Date of Issue :	19 JANUARY 2026

REVIEW BY
APPROVED BY
NEXT CAL DATE 14/01/27

Calibrated by : Nathakorn Pisutpaisan

Approved by : (Nitinun Srihawan)

This certificate is issued in accordance with the requirements of ISO/IEC 17025 standard, may not be reproduced other than in full, except with the prior written approval of the head of Calibration Laboratory.

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Cert. No. : ACL26056
Job No. : VC69AC0052
Pages : 2 of 8

Calibration Procedure : CP-AC-01

Calibration Method :

This equipment was calibrated by follow on IEC-61672-3 (2013) Standard for sound level meter (SLM).
The SLM had tests to Acoustical and Electrical signal tests of frequency weighting with Anechoic chamber and Reference Standard Instruments.
For tests results of each items were made by observation of each Instruments display and also with SLM's display.

Condition of this result of calibration :

1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33210A	MY48017076	EF-0011-25	11-FEB-26
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEI_BP 24/026II	22-APR-26
Digital Multimeter	33461A	MY53220076	EEI_BP 23/026II	22-APR-26
Digital Multimeter	34461A	MY60024273	CA2025120EA	18-MAR-26
Programmable Attenuator	MAT-1070	62100114	EF-0006-25	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26

2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   - 3.1 National Institute of Metrology (Thailand).
   - 3.2 Thailand Institute of Scientific and Technological Research (TISTR).
   - 3.3 Electrical And Electronics Institute (EEI).

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Cert. No. : ACL26056
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Pages : 3 of 8

Summary of Measurement Result :

Parameter	Uncertainty (dB)	Maximum-permitted uncertainty of measurement (dB)
1. Absolute sensitivity	0.2	N/A
2. Self-generated noise	0.2	N/A
3. Acoustical signal tests of frequency weightings		
125 Hz	0.3	0.6
1000 Hz	0.3	0.6
8000 Hz	0.3	0.7
4. Electrical signal tests of frequency weightings		
For 10 Hz to 4 kHz	0.3	0.6
For > 4 kHz to 10 kHz	0.3	0.7
For > 10 kHz to 20 kHz	0.3	1.0
5. Frequency and time weightings at 1 kHz	0.2	0.2
6. Long - term stability	0.1	0.1
7. Level linearity on the reference level range	0.2	0.3
8. Level linearity including the level range control	0.2	0.3
9. Tone burst response	0.2	0.3
10. Peak C sound level	0.2	0.35
11. Overload indication	0.2	0.25
12. High level stability	0.1	0.1

Cert. No. : ACL26056
Job No. : VC69AC0052
Page : 4 of 8

Result of calibration :

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured Value (dB)	Deviation (dB)	Acceptance Limit (dB)
93.9 (93.94)	93.9	0.0	±0.3

2. Self-generated noise

2.1 Normal test

Measured Value (dB)
18.00000003

2.2 The microphone of the sound level meter was replaced by electrical signal input device.

Frequency Weighting	Weighting (dB)
A - weight	9.9
C - weight	16.2
Flat	22.1

3. Acoustical signal tests of frequency weightings

Meter free-field acoustic response at a level of 84 dB

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
125	0.7	0.7	0.7	± 1.5
1000	0.1	0.1	0.1	± 1.0
8000	-2.9	-2.8	-2.8	±5.0

Cert. No. : ACL26056
Job No. : VC69AC0052
Pages : 5 of 8

4. Electrical signal tests of frequency weightings

Weighting network response with relative to 1 kHz.

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
63	-0.1	0.0	0.0	±2.0
125	0.0	0.0	0.0	±1.5
250	0.0	0.0	0.0	±1.5
500	0.0	0.0	-0.1	±1.5
1000	0.0	0.0	0.0	±1.0
2000	0.0	0.0	0.0	±2.0
4000	0.0	0.0	0.0	±3.0
8000	0.0	0.0	0.0	±5.0

5. Frequency and time weightings at 1 kHz

5.1 Frequency weightings at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.2
C - weight	94.0	94.0	0.0	± 0.2
Flat	94.0	94.0	0.0	± 0.2

5.2 Time weighting at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	94.0	94.0	0.0	± 0.1
Slow	94.0	94.0	0.0	± 0.1
Leq	94.0	94.0	0.0	± 0.1

6. Long - term stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.3

Cert. No. : ACL26056
Job No. : VC69AC0052
Pages : 6 of 8

7. Level linearity on the reference level range

Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
137.0	136.9	-0.1	± 1.1
136.0	135.9	-0.1	± 1.1
135.0	134.9	-0.1	± 1.1
134.0	134.0	0.0	± 1.1
133.0	132.9	-0.1	± 1.1
132.0	131.9	-0.1	± 1.1
131.0	130.9	-0.1	± 1.1
129.0	128.9	-0.1	± 1.1
124.0	124.0	0.0	± 1.1
119.0	119.0	0.0	± 1.1
114.0	114.0	0.0	± 1.1
109.0	109.0	0.0	± 1.1
104.0	104.0	0.0	± 1.1
99.0	99.0	0.0	± 1.1
94.0	94.0	0.0	± 1.1
89.0	89.0	0.0	± 1.1
84.0	84.0	0.0	± 1.1
79.0	79.0	0.0	± 1.1
74.0	74.0	0.0	± 1.1
69.0	69.0	0.0	± 1.1
64.0	64.0	0.0	± 1.1
59.0	59.0	0.0	± 1.1
54.0	54.0	0.0	± 1.1
49.0	49.0	0.0	± 1.1
44.0	44.0	0.0	± 1.1
39.0	39.0	0.0	± 1.1
34.0	34.0	0.0	± 1.1
30.0	30.0	0.0	± 1.1
29.0	29.1	0.1	± 1.1
28.0	28.1	0.1	± 1.1
27.0	27.1	0.1	± 1.1
26.0	26.1	0.1	± 1.1
25.0	25.1	0.1	± 1.1

Cert. No. : ACL26056
Job No. : VC69AC0052
Pages : 7 of 8

8. Level linearity including the level range control

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	94.0	94.0	0.0	±1.1

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	29.0	29.1	0.1	±1.1

9. Tone burst response

Time Weighting	Tone burst duration, Tb (ms)	Cycle	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	0.25	1	108.0	107.9	-0.1	1.5 ; -5.0
	2	8	117.0	116.9	-0.1	1.0 ; -2.5
	200	800	134.0	134.0	0.0	±1.0
Slow	2	8	108.0	108.0	0.0	1.0 ; -5.0
	200	800	127.6	127.6	0.0	±1.0
SEL	0.25	1	99.0	98.9	-0.1	1.5 ; -5.0
	2	8	108.0	108.0	0.0	1.0 ; -2.5
	200	800	128.0	128.0	0.0	±1.0

Cert. No. : ACL26056
Job No. : VC69AC0052
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10. Peak C sound level

Number of cycle in test signal	Anticipated Value (dB)	Measured Value, Lcpeak (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	130.0	130.0	0.0	±3.0
One	133.4	133.3	-0.1	±3.0

Number of cycle in test signal	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	133.0	133.0	0.0	±2.0
Positive half cycle	135.4	135.1	-0.3	±2.0
Negative half cycle	135.4	135.2	-0.2	±2.0

11. Overload indication

Measured value (dB)		Deviated Value (dB)	Acceptance Limits (dB)
Positive one-half cycle	Negative one-half cycle		
89.5	89.5	0.0	±1.5

12. High level stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	137.0	137.0	0.0	±0.3

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor $k = 2$ or any value following calculation,providing a level of confidence of approximately 95 %

End of Calibration Certificate

Certificate of Calibration

Customer

Name : ALS Laboratory Group Thailand Co., Ltd. **Certificate No :** 25-SLM-150

Address : 104 Soi Phatthanakan 40, Phatthanakan Road, Suan Luang, Bangkok 10250 **Request No :** Req-2025-0775

Unit Under Calibration Details

Measurement item	: Sound Level Meter	Microphone Class	: 2
Manufacturer	: RION	Microphone Model	: UC-52
Model	: NL-42	Microphone S/N	: 179113
Serial Number	: 00296512	Preamplifier Model	: NH-24
ID	: IEKK_FS0069	Preamplifier S/N	: 87521
Resolution	: 0.1 dB	Instrument Status	: Used

Calibration Environment and Details

Temperature : 23 °C ± 2 °C
Humidity : 50 %RH ± 20 %RH
Barometric Pressure : 1013 hPa ± 10 hPa
Received Date : 28 March 2025
Calibrated Date : 28 April 2025
Calibration Procedure : In-house method CP-SLM-01 based on IEC 61672-3 : 2013 Electroacoustics - Sound level meters - Part 3: Periodic tests
Location of Calibration : Lab Acoustic

REVIEW BY
APPROVED BY
NEXT CAL DATE 28/04/26

Reference Standard

Instrument	Brand	Model	SN.	Due calibration	Traceability
Standard Microphone	Brüel&Kjaer	4192	2294985	25 June 2025	NIMT
Audio Generator	Svantek	Svan401	131	15 October 2025	WK Electric

Note

The reported uncertainty is based on standard uncertainty multiplied by the Coverage Factor $k = 2$, providing a level of confidence approximately 95 %.

Calibrated By : Mr. Noppadon Luangsat, Service Calibration Engineer

Approved By : Mr. Pacit Matharoon, Calibration Engineer Supervisor

Issue Date : 28 April 2025

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AMPHOE BANG PHLI SAMUT PRAKAN PROVINCE 10540 THAILAND
TEL: (66)0-2116-5860-1 FAX: (66)0-2116-7140

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Certificate No : 25-SLM-150
Request No : Req-2025-0775

1. Indication at the calibration check frequency

UUC Setting	Nominal	Before Adjust		After Adjust		UNCERTAINTY
FAST / A / 30-130	Level	UUC	ERR	UUC	ERR	
Calibrator Setting	(dB)	(dB)	(dB)	(dB)	(dB)	(± dB)
1000 Hz 94 dB	93.77	93.8	0.03	93.8	0.03	0.20

Note : Absolute sensitivity was established by the use of Sound Calibrator Brand Svantek, Model SV35A, SN. 58079

2. Self-generated noise, Microphone installed

UUC Setting	Measured	UNCERTAINTY
FAST / 30-130		
UUC Weighting	(dB)	(± dB)
A	15.4	0.10

3. Self-generated noise, Microphone replaced by the electrical input signal device

UUC Setting	Measured	UNCERTAINTY
FAST / 30-130		
UUC Weighting	(dB)	(± dB)
A	11.4	0.10
C	18.0	0.10
Z	19.5	0.10

4. Acoustic signal test of frequency weightings (Without Windscreen)

UUC Setting	Deviation from various Frequency Weighting Respone curve			UNCERTAINTY
FAST / 30-130	A	C	Z	
STD Setting	(dB)	(dB)	(dB)	(± dB)
125 Hz	0.1	0.4	0.4	0.60
1000 Hz	0.0	0.0	0.0	0.60
4000 Hz	0.0	0.0	0.0	0.60
8000 Hz	-1.2	-1.1	-1.1	0.70

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Certificate No : 25-SLM-150
Request No : Req-2025-0775

5. Electrical signal test of frequency weightings, Weighting network respone with relative to 1 kHz

UUC Setting	Deviation from various Frequency Weighting Respone curve			UNCERTAINTY
FAST / 30-130				
STD Setting	A (dB)	C (dB)	Z (dB)	(± dB)
63 Hz	-0.3	-0.2	-0.1	0.20
125 Hz	-0.2	-0.1	-0.1	
250 Hz	-0.1	-0.1	-0.1	
500 Hz	-0.1	0.0	0.0	
1000 Hz	0.0	0.0	0.0	
2000 Hz	0.0	0.0	0.0	
4000 Hz	0.0	0.0	0.0	
8000 Hz	0.0	0.0	0.0	
16000 Hz	-1.4	-1.4	0.0	

6. Frequency and time weightings at 1kHz

UUC Setting	STD	Measured		UNCERTAINTY
FAST / 30-130	REF	UUC	ERR	
UUC Weighting	(dB)	(dB)	(dB)	(± dB)
A	114.00	114.0	0.0	0.20
C	114.00	114.0	0.0	
Z	114.00	114.0	0.0	

UUC Setting	STD	Measured		UNCERTAINTY
30-130 / A	REF	UUC	ERR	
UUC Time Respone	(dB)	(dB)	(dB)	(± dB)
Fast	114.00	114.0	0.0	0.20
Slow	114.00	114.0	0.0	
Leq	114.00	114.0	0.0	

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Certificate No : 25-SLM-150
Request No : Req-2025-0775

7. Long Term Stability

UUC Setting	Measured	UNCERTAINTY
FAST / A / 30-130	UUC	
STD Setting	(dB)	(± dB)
Initial	114.0	[redacted]
Final	114.0	
Deviated	0.0	0.10

8. Level linearity on the reference level range

UUC Setting	Anticipated	Deviation		UNCERTAINTY
FAST / A / 30-130	REF	UUC	ERR	
STD dB	(dB)	(dB)	(dB)	(± dB)
138.00	138	138.0	0.0	0.30
134.00	134	134.0	0.0	
129.00	129	129.0	0.0	
124.00	124	124.0	0.0	
119.00	119	119.0	0.0	
114.00	114	114.0	0.0	
109.00	109	109.0	0.0	
104.00	104	104.0	0.0	
99.00	99	99.0	0.0	
94.00	94	94.0	0.0	
89.00	89	89.0	0.0	
84.00	84	84.0	0.0	
79.00	79	79.0	0.0	
74.00	74	74.0	0.0	
69.00	69	69.0	0.0	
64.00	64	64.0	0.0	
59.00	59	59.0	0.0	
54.00	54	54.0	0.0	
49.00	49	49.0	0.0	
44.00	44	44.0	0.0	
39.00	39	39.0	0.0	
34.00	34	34.0	0.0	
29.00	29	29.0	0.0	
24.00	24	24.0	0.0	

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Certificate No : 25-SLM-150
Request No : Req-2025-0775

9. Level linearity including the level range control

UUC Setting	STD	Measured		UNCERTAINTY
FAST / A	REF	UUC	ERR	
UUC Range	(dB)	(dB)	(dB)	(± dB)
30-130	29.60	29.8	0.2	0.30
	114	114.0	0.0	

10. Tone burst response

UUC Setting	STD	Anticipated	Measured		UNCERTAINTY
A / 30-130	Toneburst	Ref	UUC	ERR	
UUC Time Response	(ms)	(dB)	(dB)	(dB)	(± dB)
Fast	200	126.0	126.0	0.0	0.20
	2	109.0	108.9	-0.1	
	0.25	100.0	99.8	-0.2	
Slow	200	119.6	119.5	-0.1	
	2	100.0	99.9	-0.1	
SEL	200	120.0	120.0	0.0	
	2	100.0	99.9	-0.1	
	0.25	91.0	90.8	-0.2	

11. Peak C Sound level

UUC Setting	Anticipated	Measured		UNCERTAINTY
FAST / C / 35-141	REF	UUC	ERR	
STD Setting	(dB)	(dB)	(dB)	(± dB)
Complete cycle	136.4	136.3	-0.10	0.20
Positive half cycle	135.4	135.2	-0.20	
Negative half cycle	135.4	135.2	-0.20	

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12. Overload indication

UUC Setting	Measured	UNCERTAINTY
FAST / A / 30-130	UUC	
STD Setting	(dB)	(± dB)
Positive one-half cycle	139.4	[redacted]
Negative one-half cycle	139.4	
Deviated	0.0	0.20

13. High Level Stability

UUC Setting	Measured	UNCERTAINTY
FAST / A / 30-130	UUC	
STD Setting	(dB)	(± dB)
Initial	129.0	[redacted]
Final	129.0	
Deviated	0.0	0.10

End of Certificate

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SITHIPORN ASSOCIATES CO., LTD.
CALIBRATION LABORATORY
451-451/1 Sirinthorn Road, Bangbumru, Bangplad, Bangkok, 10700 Thailand
Tel. +66 2433 8331 Email : calibration@sithiporn.com

Cert. No. : ACL25282
Pages : 1 of 8

Calibration Certificate

Equipment :	SOUND LEVEL METER
Manufacturer :	RION
Model :	NL-42 / Microphone UC-52 / Preamplifier NH-24
Serial No.:	00710639 / 180405 / 10640
ID No.:	BKK_FS0023

REVIEW BY
APPROVED BY
NEXT CAL DATE 20/07/26

Condition As Found : GOOD

Customer : ALS LABORATORY GROUP (THAILAND) CO., LTD.
104 PHATTHANAKAN 40, PHATTHANAKAN ROAD,
KHWAENG PHATTHANAKAN, KHET SUAN LUANG,
BANGKOK, 10250 THAILAND.

Location :	-	
Ambient Temperature :	(23.0 ±3)	°C
Pressure :	(101.3 ±3)	kPa
Relative Humidity :	(50.0 ±20)	%

Received Date : 07 JULY 2025
Calibration Date : 21-23 JULY 2025
Date of Issue : 25 JULY 2025

Calibrated by : Nathakorn Pisutpaisan

Approved by :

(Wichok Ekpongpradit)

This certificate is issued in accordance with the requirements of ISO/IEC 17025 standard, may not be reproduced other than in full, except with the prior written approval of the head of Calibration Laboratory.

Cert. No. : ACL25282
Job No. : VC68AC0144
Pages : 2 of 8

Calibration Procedure : CP-AC-01

Calibration Method :

This equipment was calibrated by follow on IEC-61672-3 (2013) Standard for sound level meter (SLM).
The SLM had tests to Acoustical and Electrical signal tests of frequency weighting with Anechoic chamber and Reference Standard Instruments.
For tests results of each items were made by observation of each Instruments display and also with SLM's display.

Condition of this result of calibration :

1. Reference Standard Instruments :

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33210A	MY48017076	EF-0011-25	11-FEB-26
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEL.BP 24/0268	22-APR-26
Digital Multimeter	33461A	MY53220076	EEL.BP 23/0268	22-APR-26
Digital Multimeter	34461A	MY60024273	CA2025120EA	18-MAR-26
Programmable Attenuator	MAT-1070	62100114	EF-0006-25	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26

2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   - 3.1 National Institute of Metrology (Thailand),
   - 3.2 Thailand Institute of Scientific and Technological Research (TISTR),
   - 3.3 Electrical And Electronics Institute (EEI).

Cert. No. : ACL25282
Job No. : VC68AC0144
Pages : 3 of 8

Summary of Measurement Result :

Parameter	Uncertainty (dB)	Maximum-permitted uncertainty of measurement (dB)
1. Absolute sensitivity	0.2	N/A
2. Self-generated noise	0.2	N/A
3. Acoustical signal tests of frequency weightings		
125 Hz	0.3	0.6
1000 Hz	0.3	0.6
8000 Hz	0.3	0.7
4. Electrical signal tests of frequency weightings		
For 10 Hz to 4 kHz	0.3	0.6
For > 4 kHz to 10 kHz	0.3	0.7
For > 10 kHz to 20 kHz	0.3	1.0
5. Frequency and time weightings at 1 kHz	0.2	0.2
6. Long - term stability	0.1	0.1
7. Level linearity on the reference level range	0.2	0.3
8. Level linearity including the level range control	0.2	0.3
9. Tone burst response	0.2	0.3
10. Peak C sound level	0.2	0.35
11. Overload indication	0.2	0.25
12. High level stability	0.1	0.1

Cert. No. : ACL25282
Job No. : VC68AC0144
Page : 4 of 8

Result of calibration :

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured Value (dB)	Deviation (dB)	Acceptance Limit (dB)
93.9 (93.94)	93.9	0.0	±0.3

2. Self-generated noise

2.1 Normal test

Measured Value (dB)
15.7

2.2 The microphone of the sound level meter was replaced by electrical signal input device.

Frequency Weighting	Weighting (dB)
A - weight	12.0
C - weight	18.3
Flat	23.9

3. Acoustical signal tests of frequency weightings

Meter free-field acoustic response at a level of 84 dB

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
125	0.1	0.1	0.2	± 1.5
1000	0.0	0.0	0.0	± 1.0
8000	1.2	1.3	1.3	±5.0

Cert. No. : ACL25282
Job No. : VC68AC0144
Pages : 5 of 8

4. Electrical signal tests of frequency weightings

Weighting network response with relative to 1 kHz.

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
63	0.0	-0.1	0.0	±2.0
125	0.0	0.1	0.0	±1.5
250	0.0	0.0	0.0	±1.5
500	0.0	0.1	0.0	±1.5
1000	0.0	0.0	0.0	±1.0
2000	0.0	0.1	0.0	±2.0
4000	0.0	0.0	0.0	±3.0
8000	0.0	0.1	0.1	±5.0

5. Frequency and time weightings at 1 kHz

5.1 Frequency weightings at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.0	0.0	± 0.2
C - weight	94.0	94.0	0.0	± 0.2
Flat	94.0	94.0	0.0	± 0.2

5.2 Time weighting at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	94.0	94.0	0.0	± 0.1
Slow	94.0	94.0	0.0	± 0.1
Leq	94.0	94.0	0.0	± 0.1

6. Long - term stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.1	0.1	± 0.3

Cert. No. : ACL25282
Job No. : VC68AC0144
Pages : 6 of 8

7. Level linearity on the reference level range

Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
137.0	137.0	0.0	± 1.1
136.0	136.0	0.0	± 1.1
135.0	135.0	0.0	± 1.1
134.0	134.0	0.0	± 1.1
133.0	133.0	0.0	± 1.1
132.0	132.0	0.0	± 1.1
131.0	131.0	0.0	± 1.1
129.0	129.0	0.0	± 1.1
124.0	124.0	0.0	± 1.1
119.0	119.0	0.0	± 1.1
114.0	114.0	0.0	± 1.1
109.0	109.0	0.0	± 1.1
104.0	104.0	0.0	± 1.1
99.0	99.0	0.0	± 1.1
94.0	94.0	0.0	± 1.1
89.0	89.0	0.0	± 1.1
84.0	84.0	0.0	± 1.1
79.0	79.0	0.0	± 1.1
74.0	74.0	0.0	± 1.1
69.0	69.0	0.0	± 1.1
64.0	64.0	0.0	± 1.1
59.0	59.0	0.0	± 1.1
54.0	54.0	0.0	± 1.1
49.0	49.0	0.0	± 1.1
44.0	44.0	0.0	± 1.1
39.0	39.0	0.0	± 1.1
34.0	34.0	0.0	± 1.1
30.0	29.9	-0.1	± 1.1
29.0	29.0	0.0	± 1.1
28.0	28.0	0.0	± 1.1
27.0	27.0	0.0	± 1.1
26.0	26.0	0.0	± 1.1
25.0	25.0	0.0	± 1.1

Cert. No. : ACL25282
Job No. : VC68AC0144
Pages : 7 of 8

8. Level linearity including the level range control

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	94.0	94.0	0.0	±1.1

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	29.0	28.9	-0.1	±1.1

9. Tone burst response

Time Weighting	Tone burst duration, Tb (ms)	Cycle	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	0.25	1	108.0	107.9	-0.1	1.5 ; -5.0
	2	8	117.0	117.0	0.0	1.0 ; -2.5
	200	800	134.0	134.1	0.1	±1.0
Slow	2	8	108.0	108.0	0.0	1.0 ; -5.0
	200	800	127.6	127.6	0.0	±1.0
SEL	0.25	1	99.0	98.9	-0.1	1.5 ; -5.0
	2	8	108.0	108.0	0.0	1.0 ; -2.5
	200	800	128.0	128.1	0.1	±1.0

Cert. No. : ACL25282
Job No. : VC68AC0144
Pages : 8 of 8

10. Peak C sound level

Number of cycle in test signal	Anticipated Value (dB)	Measured Value, Lcpeak (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	130.0	130.0	0.0	±3.0
One	133.4	133.4	0.0	±3.0

Number of cycle in test signal	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	133.0	133.1	0.1	±2.0
Positive half cycle	135.4	135.2	-0.2	±2.0
Negative half cycle	135.4	135.2	-0.2	±2.0

11. Overload indication

Measured value (dB)		Deviated Value (dB)	Acceptance Limits (dB)
Positive one-half cycle	Negative one-half cycle		
89.6	89.5	-0.1	±1.5

12. High level stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	137.0	137.0	0.0	±0.3

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor $k = 2$ or any value following calculation,providing a lavel of confidence of approximately 95 %

End of Calibration Certificate

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7/139 MOO 13, SOI SUNTINAKORN 11 TAMBON BANG KAEO,
AMPHOE BANG PHLI SAMUT PRAKAN PROVINCE 10540 THAILAND
TEL: (6630-2716-5800-1 FAX: (6630-2716-7140

Certificate of Calibration

Customer

Name : ALS Laboratory Group Thailand Co., Ltd. **Certificate No :** 25-SLM-149
Address : 104 Soi Phatthanakan 40, Phatthanakan Road, Suan Luang, Bangkok 10250 **Request No :** Req-2025-0774

Unit Under Calibration Details

Measurement item : Sound Level Meter
Manufacturer : RION
Model : NL-42
Serial Number : 00296514
ID : IKK_FS0971
Resolution : 0.1 dB
Microphone Class : 2
Microphone Model : UC-52
Microphone S/N : 179116
Preamplifier Model : NH-24
Preamplifier S/N : 87523
Instrument Status : Used

Calibration Environment and Details

Temperature : 23 °C ± 2 °C
Humidity : 50 %RH ± 20 %RH
Barometric Pressure : 1013 hPa ± 10 hPa
Received Date : 28 March 2025
Calibrated Date : 28 April 2025
Calibration Procedure : In-house method CP-SLM-01 based on IEC 61672-3 : 2013 Electroacoustics - Sound level meters - Part 3: Periodic tests
Location of Calibration : Lab Acoustic

REVIEW BY
APPROVED BY
NEXT CAL DATE 28/04/26

Reference Standard

Instrument	Brand	Model	SN.	Due calibration	Traceability
Standard Microphone	Brüel&Kjaer	4192	2294985	25 June 2025	NIMT
Audio Generator	Svantek	Svan401	151	15 October 2025	WK Electric

Note

The reported uncertainty is based on standard uncertainty multiplied by the Coverage Factor $k = 2$, providing a level of confidence approximately 95 %.

Calibrated By : Mr. Noppadon Luangsri, Service Calibration Engineer
Approved By : Mr. Pacit Matharvorn, Calibration Engineer Supervisor
Issue Date : 28 April 2025

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TEL: (66)0-2116-5860-1 FAX: (66)0-2116-7140

Certificate No : 25-SLM-149
Request No : Req-2025-0774

1. Indication at the calibration check frequency

UUC Setting	Nominal	Before Adjust		After Adjust		UNCERTAINTY
FAST / A / 30-130	Level	UUC	ERR	UUC	ERR	
Calibrator Setting	(dB)	(dB)	(dB)	(dB)	(dB)	(± dB)
1000 Hz 94 dB	93.77	93.6	-0.17	93.8	0.03	0.20

Note : Absolute sensitivity was established by the use of Sound Calibrator Brand Svantek, Model SV35A, SN. 58079

2. Self-generated noise, Microphone installed

UUC Setting	Measured	UNCERTAINTY
FAST / 30-130		
UUC Weighting	(dB)	(± dB)
A	14.9	0.10

3. Self-generated noise, Microphone replaced by the electrical input signal device

UUC Setting	Measured	UNCERTAINTY
FAST / 30-130		
UUC Weighting	(dB)	(± dB)
A	11.4	0.10
C	16.0	0.10
Z	19.5	0.10

4. Acoustic signal test of frequency weightings (Without Windscreen)

UUC Setting	Deviation from various Frequency Weighting Respone curve			UNCERTAINTY
FAST / 30-130	A	C	Z	
STD Setting	(dB)	(dB)	(dB)	(± dB)
125 Hz	0.3	0.5	0.5	0.60
1000 Hz	0.0	0.0	0.0	0.60
4000 Hz	-0.9	-0.9	-0.9	0.60
8000 Hz	-2.5	-2.4	-2.4	0.70

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Request No : Req-2025-0774

5. Electrical signal test of frequency weightings, Weighting network respone with relative to 1 kHz

UUC Setting	Deviation from various Frequency Weighting Respone curve			UNCERTAINTY
FAST / 30-130				
STD Setting	A (dB)	C (dB)	Z (dB)	(± dB)
63 Hz	-0.3	-0.1	0.0	
125 Hz	-0.1	0.0	0.0	
250 Hz	-0.1	0.0	0.0	
500 Hz	0.0	0.0	0.0	
1000 Hz	0.0	0.0	0.0	0.20
2000 Hz	0.0	0.0	0.0	
4000 Hz	0.0	0.0	0.0	
8000 Hz	0.1	0.1	0.0	
16000 Hz	-1.3	-1.4	0.0	

6. Frequency and time weightings at 1kHz

UUC Setting	STD	Measured		UNCERTAINTY
FAST / 30-130	REF	UUC	ERR	
UUC Weighting	(dB)	(dB)	(dB)	(± dB)
A	114.00	114.0	0.0	
C	114.00	114.0	0.0	0.20
Z	114.00	114.0	0.0	

UUC Setting	STD	Measured		UNCERTAINTY
30-130 / A	REF	UUC	ERR	
UUC Time Respone	(dB)	(dB)	(dB)	(± dB)
Fast	114.00	114.0	0.0	
Slow	114.00	114.0	0.0	0.20
Leq	114.00	114.0	0.0	

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FM-708-SLM-01 Rev.00 Issue date 17/2/25

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Certificate No : 25-SLM-149
Request No : Req-2025-0774

7. Long Term Stability

UUC Setting	Measured	UNCERTAINTY
FAST / A / 30-130	UUC	
STD Setting	(dB)	(± dB)
Initial	114.0	[redacted]
Final	114.0	
Deviated	0.0	0.10

8. Level linearity on the reference level range

UUC Setting	Anticipated	Deviation		UNCERTAINTY
FAST / A / 30-130	REF	UUC	ERR	
STD dB	(dB)	(dB)	(dB)	(± dB)
138.00	138	137.9	-0.1	
134.00	134	133.9	-0.1	
129.00	129	128.9	-0.1	
124.00	124	123.9	-0.1	
119.00	119	119.0	0.0	
114.00	114	114.0	0.0	
109.00	109	109.0	0.0	
104.00	104	104.0	0.0	
99.00	99	99.0	0.0	
94.00	94	94.0	0.0	
89.00	89	89.0	0.0	
84.00	84	84.0	0.0	
79.00	79	79.0	0.0	0.30
74.00	74	74.0	0.0	
69.00	69	69.0	0.0	
64.00	64	64.0	0.0	
59.00	59	59.0	0.0	
54.00	54	54.0	0.0	
49.00	49	49.0	0.0	
44.00	44	44.0	0.0	
39.00	39	39.0	0.0	
34.00	34	34.0	0.0	
29.00	29	28.9	-0.1	
24.00	24	23.9	-0.1	

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FM-708-SLM-01 Rev.00 Issue date 17/2/25

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Certificate No : 25-SLM-149
Request No : Req-2025-0774

9. Level linearity including the level range control

UUC Setting	STD	Measured		UNCERTAINTY
FAST / A	REF	UUC	ERR	
UUC Range	(dB)	(dB)	(dB)	(± dB)
30-130	29.60	29.7	0.1	0.30
	114	114.0	0.0	

10. Tone burst response

UUC Setting	STD	Anticipated	Measured		UNCERTAINTY
A / 30-130	Toneburst	Ref	UUC	ERR	
UUC Time Respone	(ms)	(dB)	(dB)	(dB)	(± dB)
Fast	200	126.0	126.0	0.0	0.20
	2	109.0	109.0	0.0	
	0.25	100.0	99.9	-0.1	
Slow	200	119.6	119.6	0.0	
	2	100.0	100.0	0.0	
SEL	200	120.0	120.1	+0.1	
	2	100.0	100.0	0.0	
	0.25	91.0	90.9	-0.1	

11. Peak C Sound level

UUC Setting	Anticipated	Measured		UNCERTAINTY
FAST / C / 35-141	REF	UUC	ERR	
STD Setting	(dB)	(dB)	(dB)	(± dB)
Complete cycle	136.4	135.6	-0.80	0.20
Positive half cycle	135.4	135.2	-0.20	
Negative half cycle	135.4	135.2	-0.20	

The results related only to the item calibrated. The certificate shall not be reproduced except in full, without written approval of the Innovative Instrument Co., Ltd

FM-708-SLM-01 Rev.00 Issue date 17/2/25

INNOVATIVE INSTRUMENT CALIBRATION LAB
INNOVATIVE INSTRUMENT CO., LTD. HEAD OFFICE
7/139 MOO 13, SOI SUNTINAKORN 11 TAMBON BANG KADO,
AMPHOE BANG PHLI SAMUT PRAKAN PROVINCE 10540 THAILAND
TEL: (668)-2116-5860-1 FAX: (668)-2116-7140

Certificate No : 25-SLM-149
Request No : Req-2025-0774

12. Overload indication

UUC Setting	Measured	UNCERTAINTY
FAST / A / 30-130	UUC	
STD Setting	(dB)	(± dB)
Positive one-half cycle	139.5	
Negative one-half cycle	139.4	
Deviated	0.1	0.20

13. High Level Stability

UUC Setting	Measured	UNCERTAINTY
FAST / A / 30-130	UUC	
STD Setting	(dB)	(± dB)
Initial	129.0	
Final	129.0	
Deviated	0.0	0.10

End of Certificate

The results related only to the item calibrated. The certificate shall not be reproduced except in full, without written approval of the Innovative Instrument Co., Ltd.

SITHIPORN ASSOCIATES CO., LTD.
CALIBRATION LABORATORY
451-451/1 Sirinthorn Road, Bangbamru, Bangplad, Bangkok, 10700 Thailand
Tel. +66 2433 8331 Email : calibration@sithiporn.com

Cert. No. : ACL26057
Pages : 1 of 8

Calibration Certificate

Equipment : SOUND LEVEL METER
Manufacturer : RION
Model : NL-42 / Microphone UC-52 / Preamplifier NH-24
Serial No.: 00572609 / 170133 / 72947
ID No.: BKK_FS0924

Condition As Found : GOOD

Customer : ALS LABORATORY GROUP (THAILAND) CO., LTD.
104 PHATTHANAKAN 40, PHATTHANAKAN ROAD,
KHWAENG PHATTHANAKAN, KHET SUAN LUANG,
BANGKOK, 10250 THAILAND.

Location : -
Ambient Temperature : (23.0 ± 3) °C
Pressure : (101.3 ± 3) kPa
Relative Humidity : (50.0 ± 20) %

REVIEW BY
APPROVED BY
NEXT CAL DATE 14/01/27

Received Date : 05 JANUARY 2026
Calibration Date : 15 - 16 JANUARY 2026
Date of Issue : 19 JANUARY 2026

Calibrated by : Nathakorn Pisutpaisan

Approved by :

(Nitinun Srihawan)

This certificate is issued in accordance with the requirements of ISO/IEC 17025 standard, may not be reproduced other than in full, except with the prior written approval of the head of Calibration Laboratory.

Cert. No. : ACL26057
Job No. : VC69AC0052
Pages : 2 of 8

Calibration Procedure : CP-AC-01

Calibration Method :

This equipment was calibrated by follow on IEC-61672-3 (2013) Standard for sound level meter (SLM).
The SLM had tests to Acoustical and Electrical signal tests of frequency weighting with Anechoic chamber and Reference Standard Instruments.
For tests results of each items were made by observation of each Instruments display and also with SLM's display.

Condition of this result of calibration :

1. Reference Standard Instruments ;

Instrument	Model	Serial No.	Cert. No.	Due Date
Waveform Generator	33210A	MY48017076	EF-0011-25	11-FEB-26
Waveform Generator	33511B	MY52302742	EF-0012-25	11-FEB-26
Digital Multimeter	33461A	MY53220104	EEL_BP 24/0268	22-APR-26
Digital Multimeter	33461A	MY53220076	EEL_BP 23/0268	22-APR-26
Digital Multimeter	34461A	MY60024273	CA2025120EA	18-MAR-26
Programmable Attenuator	MAT-1070	62100114	EF-0006-25	11-FEB-26
Condenser Microphone	4180	2977900	AA-1002-25	19-FEB-26
Measuring Amplifier	NA-42KAI	34560495	AA-3002-25	19-FEB-26

2. This result of calibration was found accurate as shown on date and place of calibration for this calibrated item only.
3. This certificate is traceable to the international system of unit maintained at :
   3.1 National Institute of Metrology (Thailand).
   3.2 Thailand Institute of Scientific and Technological Research (TISTR).
   3.3 Electrical And Electronics Institute (EEI).

Cert. No. : ACL26057
Job No. : VC69AC0052
Pages : 3 of 8

Summary of Measurement Result :

Parameter	Uncertainty (dB)	Maximum-permitted uncertainty of measurement (dB)
1. Absolute sensitivity	0.2	N/A
2. Self-generated noise	0.2	N/A
3. Acoustical signal tests of frequency weightings		
125 Hz	0.3	0.6
1000 Hz	0.3	0.6
8000 Hz	0.3	0.7
4. Electrical signal tests of frequency weightings		
For 10 Hz to 4 kHz	0.3	0.6
For > 4 kHz to 10 kHz	0.3	0.7
For > 10 kHz to 20 kHz	0.3	1.0
5. Frequency and time weightings at 1 kHz	0.2	0.2
6. Long - term stability	0.1	0.1
7. Level linearity on the reference level range	0.2	0.3
8. Level linearity including the level range control	0.2	0.3
9. Tone burst response	0.2	0.3
10. Peak C sound level	0.2	0.35
11. Overload indication	0.2	0.25
12. High level stability	0.1	0.1

Cert. No. : ACL26057
Job No. : VC69AC0052
Page : 4 of 8

Result of calibration :

1. Absolute sensitivity

Reference Acoustic Signal (dB)	Measured Value (dB)	Deviation (dB)	Acceptance Limit (dB)
93.9 (93.94)	93.9	0.0	±0.3

2. Self-generated noise

2.1 Normal test

Measured Value (dB)
14.2

2.2 The microphone of the sound level meter was replaced by electrical signal input device.

Frequency Weighting	Weighting (dB)
A - weight	10.7
C - weight	16.8
Flat	22.6

3. Acoustical signal tests of frequency weightings

Meter free-field acoustic response at a level of 84 dB

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
125	0.1	0.1	0.1	± 1.5
1000	0.0	0.0	0.0	± 1.0
8000	0.0	0.0	0.0	±5.0

Cert. No. : ACL26057
Job No. : VC69AC0052
Pages : 5 of 8

4. Electrical signal tests of frequency weightings

Weighting network response with relative to 1 kHz.

Frequency (Hz)	Deviation from various frequency weighting response curve (dB)			
	Flat	C-weight	A-weight	Acceptance Limits
63	-0.1	-0.1	0.0	±2.0
125	0.0	0.0	0.0	±1.5
250	0.0	-0.1	-0.1	±1.5
500	0.0	0.0	-0.1	±1.5
1000	0.0	0.0	0.0	±1.0
2000	0.0	0.0	0.0	±2.0
4000	0.0	0.0	0.0	±3.0
8000	0.0	0.0	0.0	±5.0

5. Frequency and time weightings at 1 kHz

5.1 Frequency weightings at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	94.0	94.1	0.1	± 0.2
C - weight	94.0	94.1	0.1	± 0.2
Flat	94.0	94.0	0.0	± 0.2

5.2 Time weighting at 1 kHz

Frequency Weighting	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	94.0	94.1	0.1	± 0.1
Slow	94.0	94.0	0.0	± 0.1
Leq	94.0	94.0	0.0	± 0.1

6. Long - term stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	93.9	94.0	0.1	± 0.3

Cert. No. : ACL26057
Job No. : VC69AC0052
Pages : 6 of 8

7. Level linearity on the reference level range

Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
137.0	137.0	0.0	± 1.1
136.0	136.0	0.0	± 1.1
135.0	135.1	0.1	± 1.1
134.0	134.1	0.1	± 1.1
133.0	133.0	0.0	± 1.1
132.0	132.0	0.0	± 1.1
131.0	131.0	0.0	± 1.1
129.0	129.0	0.0	± 1.1
124.0	124.0	0.0	± 1.1
119.0	119.1	0.1	± 1.1
114.0	114.1	0.1	± 1.1
109.0	109.0	0.0	± 1.1
104.0	104.1	0.1	± 1.1
99.0	99.1	0.1	± 1.1
94.0	94.0	0.0	± 1.1
89.0	89.0	0.0	± 1.1
84.0	84.0	0.0	± 1.1
79.0	79.0	0.0	± 1.1
74.0	74.0	0.0	± 1.1
69.0	69.0	0.0	± 1.1
64.0	64.0	0.0	± 1.1
59.0	59.0	0.0	± 1.1
54.0	54.0	0.0	± 1.1
49.0	49.0	0.0	± 1.1
44.0	44.0	0.0	± 1.1
39.0	39.0	0.0	± 1.1
34.0	34.0	0.0	± 1.1
30.0	30.0	0.0	± 1.1
29.0	28.9	-0.1	± 1.1
28.0	27.9	-0.1	± 1.1
27.0	27.0	0.0	± 1.1
26.0	25.9	-0.1	± 1.1
25.0	24.9	-0.1	± 1.1

Cert. No. : ACL26057
Job No. : VC69AC0052
Pages : 7 of 8

8. Level linearity including the level range control

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	94.0	94.0	0.0	±1.1

Range	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
130	29.0	29.0	0.0	±1.1

9. Tone burst response

Time Weighting	Tone burst duration, Tb (ms)	Cycle	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Fast	0.25	1	108.0	108.0	0.0	1.5 ; -5.0
	2	8	117.0	117.0	0.0	1.0 ; -2.5
	200	800	134.0	134.1	0.1	±1.0
Slow	2	8	108.0	108.1	0.1	1.0 ; -5.0
	200	800	127.6	127.7	0.1	±1.0
SEL	0.25	1	99.0	98.9	-0.1	1.5 ; -5.0
	2	8	108.0	108.0	0.0	1.0 ; -2.5
	200	800	128.0	128.0	0.0	±1.0

SITHIPORN associates

SITHIPORN ASSOCIATES
CALIBRATION LABORATORY

Cert. No. : ACL26057
Job No. : VC69AC0052
Pages : 8 of 8

10. Peak C sound level

Number of cycle in test signal	Anticipated Value (dB)	Measured Value, Lcpeak (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	130.0	130.0	0.0	±3.0
One	133.4	133.4	0.0	±3.0

Number of cycle in test signal	Anticipated Value (dB)	Measured Value (dB)	Deviated Value (dB)	Acceptance Limits (dB)
Continuous	133.0	133.0	0.0	±2.0
Positive half cycle	135.4	135.1	-0.3	±2.0
Negative half cycle	135.4	135.1	-0.3	±2.0

11. Overload indication

Measured value (dB)		Deviated Value (dB)	Acceptance Limits (dB)
Positive one-half cycle	Negative one-half cycle		
89.5	89.5	0.0	±1.5

12. High level stability

Frequency Weighting	SLM Display at initial (dB)	SLM Display at final (dB)	Deviated Value (dB)	Acceptance Limits (dB)
A - weight	137.0	137.0	0.0	±0.3

The reported uncertainty is based on a standard uncertainty multiplied by coverage factor $k = 2$ or any value following calculation,providing a lavel of confidence of approximately 95 %

End of Calibration Certificate

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

Certificate of Calibration

Cert.No.: 25CH1162
Page.: 1 of 3

Equipment :	pH Meter
Manufacturer :	Hach
Model :	HQ411d
Serial No. :	200100031163
ID No. :	BKK_EN0342
Condition As-Received:	Used Item
Received Date :	08 October 2025
Calibration Date :	09 October 2025
Reference :	2510-0271DSC-1
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Ambient Temperature :	(25 ± 2.5) °C
Relative Humidity :	(50 ± 15) %
Calibration Procedure :	In - house method : - CP-CH5 by direct measurement with certified reference material (CRM) - CP-CH6 by comparison with temperature standard
Calibrated by :	Walalak Sirithean
Approved by :	Saithip Approved Signatory

REVIEW BY Jinda K
APPROVED BY Shiluk P
NEXT CAL DATE 09/10/26

( ) Chakrit Waewwanjua
( ) Ponpan Paipim
(✓) Saithip Meangmai

Issue Date : 10 October 2025

The Uncertainties are for a confidence probability of approximately 95%

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

Condition of this calibration result

1. Reference Standard Instrument

Instrument	Serial No.	ID No.	Cert. No.	Due Date
1) Ref. Standard Thermometer	4982054	110RC044	25I708	03 July 2026

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

2. Certified Reference Materials : The measurement results are traceable to SI through CPA chem Ltd., ANSI-ASQ National Accreditation Board, Accredited No. AR-1635

Buffer Solution	Manufacturer	Lot No.	Exp. date
pH 4.007	CPA chem	1114384	12 June 2027
pH 6.965	CPA chem	1066667	18 Jan 2026
pH 10.010	CPA chem	1135355	16 Aug 2026

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

Calibration Results

Function : pH Measurement

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

Unit Under Calibration	Standard pH Buffer Solution	Actual pH Reading	Actual mV Reading (mV)	Uncertainty of pH Measurement (±)	Coverage factor k
pH Electrode	4.007	3.996	178.6	0.0046	2.00
S/N.: 252063043080	6.965	6.974	1.1	0.0084	2.00
	10.010	9.996	-176.9	0.0070	2.00

Remark - Can not connect the BNC because the plug does not match with the socket.

Calibration Results

Function : Temperature Measurement

(*) Without adjustment

This equipment was connected with Temperature Probe;
- Model : PHC281
- Serial No. : 252063043080

Dimension of probe
- Length : 103 mm.
- Diameter : 12 mm.
- Immersion Depth : 90 mm.

Calibration Point (°C)	Standard Temperature (°C)	UUC* Reading (°C)	Error (°C)	Uncertainty of measurement (± °C)	Coverage factor k
25.0	25.001	25.0	-0.001	0.13	2.00

Remark - UUC* = Unit Under Calibration

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

-o0o-

SARTORIUS

Accredited by

NSC-TISI-TIS 17025

Calibration 0426

NSC-TISI-TIS 17025
CALIBRATION 0426

Calibration certificate

Calibration Certificate No. 25BCI0265

Object	Electronic non-automatic weighing instrument
Manufacturer	Sartorius
Type	MSE224S-100-DU
Serial | QM Ident. no.	27405555 | BKK_EN0003
Customer	ALS Laboratory Group (Thailand)Co., Ltd. 104 Phatthanakarn 40,Phattanakarn Rd.,Khwaeng Phatthanakarn ,Khet Suan Luang,Bangkok 10250
Order no.	265054
Number of pages	4
Date of calibration	17 Jul 2025

This calibration certificate documents the traceability to national standards.

Uncertainties of measurements are taken into account when only statements of compliance are made.

This certificate was prepared by Sartorius Corporation in accordance to the current ISO/IEC 17025:2017 standard and Sartorius Work Instruction (Method) SOP WI 08.

This certificate relate and apply this equipment only.

REVIEW BY Jinda K.

APPROVED BY Sirilak P.

NEXT CAL DATE 17/07/26

This calibration certificate may not be reproduced other than in full except with the permission of NSC-TISI-TIS-17025 and the issuing laboratory. Calibration certificates without signature are not valid.

The user is obliged to have the object recalibrated at appropriate intervals.

Date of issue	Approval of the Calibration Certificate	Person in charge
17 Jul 2025	Mr. Chonchai Inthana	Chonchai Inthana

Calibration object

Single range instrument

Model	MSE224S-100-DU
Serial Number	27405555
QM Ident. no | Inventory no.	BKK_EN0003 | ---

Maximum capacity (Max. load)	220.0000 g
Measured up to	220.0000 g
Scale interval	0.0001 g

Place of calibration

Address	According to page 1
Department | Cost center	ENVI Department | ---
Building | Floor	--- | 1st Floor.
Room	Laboratory Room.
Maximum temperature variation at place of calibration	5 K

Calibration procedure

EURAMET Calibration Guide No. 18, Version 4.0 (11/2015) - Guidelines on the Calibration of Non-Automatic Weighing Instruments

Test equipment

Test equipment type	Test equipment ID	Valid until
Thermometer	Testo 174(Traceable to Si unit through ENTECH)	11 Nov 2025
Test weight set OIML R111 E2	Certificate No.M23081975 ,E2(Traceable to SI unit through TCS)	23 Aug 2025

Adjustment Status

The measuring device was internally adjusted before the calibration.

Environmental and measuring conditions

Date of calibration	17 Jul 2025
Temperature at place of calibration | Temp. diff. $T_{weights} - T_{place}$	22.5 °C | 0.7 K
Measuring conditions	The installation site is suitable. The device is level. Balance was loaded up to Max before test.
Comments	Humidity 58.0 %RH.

Measurement results | Measurement uncertainties

Repeatability

Test load (nominal): 10 g | 200 g		
	10 g	200 g
1	10.0000 g	200.0000 g
2	10.0000 g	199.9999 g
3	10.0000 g	200.0000 g
4	10.0000 g	200.0000 g
5	10.0001 g	199.9999 g
6	10.0000 g	200.0000 g
7	10.0000 g	200.0000 g
8	10.0001 g	200.0000 g
9	10.0000 g	200.0000 g
10	10.0000 g	199.9999 g
	s = 0.00004 g	s = 0.00005 g

Eccentricity

Test load (nominal):	100 g
Center	100.0000 g
Front left	100.0001 g
Back left	100.0000 g
Back right	100.0001 g
Front right	100.0001 g

Maximum deviation from centric loading indication $|\Delta I_{ecc}|_{max}$ = 0.0001 g

Error of indication

Testload L	Indication I	Error E	Expansion factor k	Uncertainty $U(E)$	Uncertainty relative $U_{rel}(E)$
0.0100 g	0.0100 g	0.0000 g	2.00	0.00012 g	1.2 %
0.1000 g	0.1000 g	0.0000 g	2.00	0.00013 g	0.13 %
1.0000 g	1.0000 g	0.0000 g	2.00	0.00013 g	0.013 %
2.0000 g	2.0000 g	0.0000 g	2.00	0.00013 g	0.0065 %
5.0000 g	5.0000 g	0.0000 g	2.00	0.00013 g	0.0026 %
10.0000 g	10.0000 g	0.0000 g	2.00	0.00013 g	0.0013 %
20.0000 g	20.0000 g	0.0000 g	2.00	0.00014 g	0.00068 %
50.0000 g	50.0000 g	0.0000 g	2.00	0.00015 g	0.00029 %
100.0000 g	100.0000 g	0.0000 g	2.00	0.00018 g	0.00018 %
200.0000 g	200.0000 g	0.0000 g	2.00	0.00028 g	0.00014 %
220.0000 g	220.0001 g	0.0001 g	2.00	0.00032 g	0.00015 %
Maximum error of indication		$\|E\|_{max}$ = 0.0001 g			

$U_{rel}(E)$ is the quotient of $U(E)$ and test load L. The uncertainty of measurement $U(E)$ is valid only if error E is considered. You will find reference notes on the uncertainty of measurement in use under: Appendix to the calibration certificate | Interpretation of measurement results
Reference note: The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the documented Expansion factor, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

End of calibration certificate

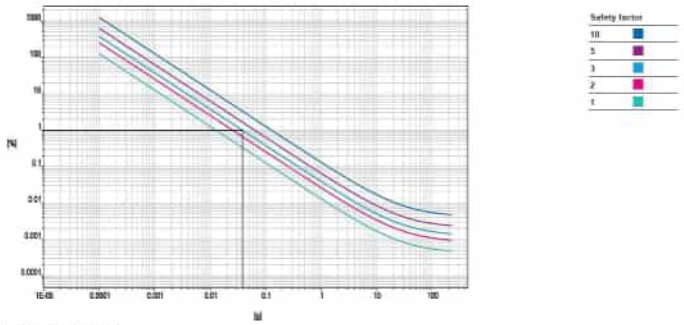
Uncertainty of measurement in use

Device adjusted before measurement	Yes
Temperature deviation considered	1.5 K (isoCAL active)
Temperature coefficient considered	1 · 10⁻⁶/K
Uncertainty of the weighing result $U_{gl}(W)$	$U_{gl}(W) = 0.00013\ g + 4.19 \cdot 10^{-6} \cdot R$

Reference note: The current uncertainty of measurement is calculated by entering of the reading R into this formula. In relation to this, there is no need for a correction of the indication error. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied with an Expansion factor of 2, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

Indication in % from max load	Net indication R	Uncertainty $U_{gl}(W)$	Uncertainty relative $U_{gl}(W)_{rel}$
1 %	2.2000 g	0.00014 g	0.0063 %
25 %	55.0000 g	0.00036 g	0.00066 %
50 %	110.0000 g	0.00059 g	0.00054 %
75 %	165.0000 g	0.00082 g	0.00050 %
100 %	220.0000 g	0.0011 g	0.00048 %

Graphic realization of the relative uncertainty of measurement | process accuracy



Displayed example

Process accuracy	1.00 %
Safety factor	3
Minimum sample weight	0.0380 g

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

Certificate of Calibration

Cert. No.: 25TM528
Page : 1 of 3

Equipment :	Water Bath
Manufacturer :	Memmert
Model :	WNE 29
Serial No. :	L622.0282
ID No. :	BKK_EN0439

REVIEW BY: Jinda K
APPROVED BY: Shiluk P
NEXT CAL DATE: 09/10/26

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand

Location : Organic Preparation Lab

Received Order : 08 October 2025
Calibration Date : 09 October 2025
Ambient Temperature : (26 ± 10) °C
Relative Humidity : (50 ± 30) %
AC Line Voltage : (220 ± 22) V

Calibrated by : Kunchit Promprat

Approved by :
Approved Signatory

( ) Chakrit Waewwanjua
( ) Ponpan Paipim
(✓) Suwit Imjai

Issue Date : 28 October 2025

The Uncertainties are for a confidence probability of approximately 95%

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

Procedure Used :-

Calibration were conducted using in-house calibration procedure CP-OT04 Based on ASTM E715 according to direct measurement method with Data Acquisition which connected with Industrial Platinum Resistance Thermometer (IPRT).

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

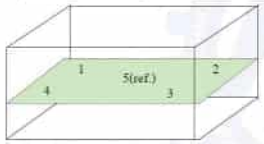
Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Data Acquisition	MY58041391	25LM20	TPA	08 Feb 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This measurement result is traceable to the International System of Unit maintained through :

Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Heat transfer medium used : Water

	Environmental		AC Voltage Supply
	(°C)	(%R.H.)	(Volt)
Beginning of Calibration	24	63	224
Finished of Calibration	24	58	224



Front

Position :	Ref. Std. ID No.:
1	70RC143
2	70RC144
3	70RC145
4	70RC146
5(ref.)	70RC147

Calibration point	UUC* Setting	UUC* Reading	Average* Standard Reading (°C) Position					Uncertainty
(°C)	(°C)	(°C)	1	2	3	4	5 (ref.)	(± °C)
85.0	85.0	85.0	84.863	84.748	84.869	84.990	84.966	0.21

Calibration point	Uniformity	Stability	Coverage Factor
(°C)	(°C)	(± °C)	*k*
85.0	0.33	0.12	2

Average* : The average of 30 values in each position.
Uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.
Stability : One-half of the greatest maximum difference of measured temperature at any one probe.
UUC* : Unit Under Calibration
Note : The reported uncertainty of measurement was included stability and excluded uniformity.

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

-o0o-

SCG
Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260
Bangkok Tel : +668 9205 6851 , +669 81924 0059
Saraburi Tel : +669 8247 2360
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T251785

Page 1 of 3

Certificate of Calibration

Equipment	:	**Chamber (Oven)**
Manufacturer	:	**Memmert**
Model	:	**UF110**
Serial No.	:	**B423.1549**
Customer Code	:	**BKK_EN0425**
ID No.	:	**T4671A5**
Customer	:	**ALS Laboratory Group (Thailand) Co.,Ltd.**
		104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,
		Khet Suan Luang, Bangkok 10250
Customer Location	:	**Oven Room**
Date of Receipt	:	**1 October 2025**
Calibrated By	:	**Sujjar Naknakred (Site Calibration Manager)**
Approved By	:	**Boonchai Suriyawong (Site Calibration Manager)**
Date of Issue	:	10 OCT 2025

REVIEW BY: Jinda K
APPROVED BY: Shiluk P
NEXT CAL. DATE: 06/Jul/26

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

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

Certificate No. T251785

Calibration Report

Equipment : **Chamber (Oven)**
Date of Calibration : **6 October 2025**
Environment : **Temperature : 24.4-25.8 °C**
Line Voltage : 220.5-225.2 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

1. This equipment was calibrated by insert nine resistance thermometer detectors into its chamber , the other one resistance thermometer detector use for ambient temperature measurement . The calibration was done in according to WI-T20 (based on ASTM E145-94 (Reapproved 2019) and AS2853-1986).
   All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

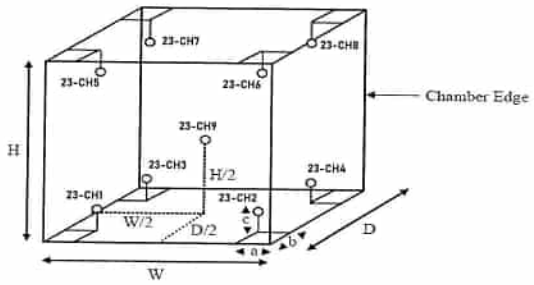
Instrument	Model	Instrument No.	Certificate No.	Due Date
RTD	100 ohm	23-(CH1-10)	T250314	6 April 2026
DATA LOGGER	34970A	T195	T250314	6 April 2026

3. This certificate is traceable to :
   National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.
4. Condition of calibrated item : good
   Equipment Description :
   Time Constant 2 Hour 14 Minute At 104 °C
   Fresh Air Damper [X] Open [X] Min [ ] Medium [ ] Max
   [ ] Close
   [ ] Not Available
5. Adjustment :
   ( ) without adjustment (X) after adjustment

Approved By.

Certificate No. T251785

Calibration Report



Remark : Internal Dimensions of Chamber : W (Width) = 56 cm. , H (Height) = 48 cm. and D (Depth) = 40 cm.
Size of Installed Standard sensor number 23-CH1 to number 23-CH8 : a = 5 cm. ,b = 5 cm. and c = 5 cm.
Size of Installed Standard sensor number 23-CH9 : W/2 = 56 cm./2 , H/2 = 48 cm./2 and D/2 = 40cm./2

Measurement Results

Calibration Point	Average Standard Reading at each position (°C)								
	23-CH1	23-CH2	23-CH3	23-CH4	23-CH5	23-CH6	23-CH7	23-CH8	23-CH9
104	104.13	103.54	103.92	104.37	104.40	104.51	104.18	103.86	103.80
180	180.05	179.82	179.64	179.52	181.20	180.29	180.19	179.35	179.89

Chamber (Oven)			Temperature Distribution				
Setting °C	Reading (°C)		Average (°C)	Stability (± °C)	Uniformity (°C)	Uncertainty (± °C)	Coverage Factor k
	Min , Max	Average					
104.0	-	104.0	104.08	0.28	0.87	0.45	2.00
180.0	180.0 , 180.1	180.0	179.99	0.37	1.49	0.61	2.00

* The quoted uncertainty exclude "uniformity"
The calibration result apply only the above calibrated item.
The result of test was found accurate as shown on date and place of test only.
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

End of Certificate.

Approved By.

DKSH

ilac-MRA NSC-TISI-TIS 17025

Certificate of Calibration

Equipment:	pH METER	Certificate No.:	C07250317
Manufacturer:	SI Analytics	Job No.:	WD-00076560
Model:	TitroLine 7000	Issued Date:	30 June 2025
Serial No.:	10013826	Due Date:	30 June 2026
ID No.:	BKK_EN0373	Page:	1 of 3
Condition of the item:	Normal		

Customer: ALS Laboratory Group (Thailand) Co., Ltd.
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

REVIEW BY Linda K.
APPROVED BY Sailuk P.
NEXT CAL. DATE 30/06/26

Environment Condition:

Temperature	22.3	°C	±	0.1	°C
Relative Humidity	56.3	%	±	0.4	%

Calibration Place: ALS Laboratory Group (Thailand) Co., Ltd.(Wet Chemistry Lab 2)
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Calibration By: Mr.Pongpisut Suebchantha
Calibration Date: 30 June 2025
The Method Used: In house method, CAL-WI-58, base on ASTM E 70-07
Traceability: This certificate is traceable to SI Units, Sample Test is assured through primary measurement method Harned cell, through CPAchem Ltd. (ISO/IEC 17034) Certificate No. 1100242, 1100244, 1034231 And pH Scale traceable to the SI Units maintained by National Institute of Metrology (NIMT), Thailand through Industrial Foundation Electrical and Electronics Institute Certificate No. CA20240602EA

(Mr. Pongpisut Suebchantha)
Person in charge

(Miss Kaewkan Suradech)
Authorized signatory

This certificate is issued the units of measurement according to the International System of Units (SI). It provides traceability of measurement to international or national standard or other recognized national standard laboratories.
The measurement uncertainty stated is the expanded uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to provide a level of confidence of approximately 95%. It is determined in accordance with Evaluation of measurement data - Guide to the expression of uncertainty in measurement (JCGM 100).
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DKSH Technology Limited
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2533 Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

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Calibration Results:

pH Scale

Input	pH Meter Reading			Uncertainty of Measurement (mV)	Coverage Factor (k)
(mV)	(mV)	Error (mV)	(pH)		
414.12	413.9	-0.22	0.000	0.065	2.00
354.96	354.8	-0.16	1.000	0.065	2.00
295.8	295.7	-0.10	2.001	0.065	2.00
236.64	236.6	-0.04	3.001	0.065	2.00
177.48	177.4	-0.08	4.000	0.065	2.00
118.32	118.3	-0.02	5.000	0.065	2.00
59.16	59.1	-0.06	6.000	0.065	2.00
0	0.0	0.00	7.000	0.065	2.00
-59.16	-59.1	0.06	8.000	0.065	2.00
-118.32	-118.3	0.02	9.000	0.065	2.00
-177.48	-177.4	0.08	10.000	0.065	2.00
-236.64	-236.5	0.14	11.000	0.065	2.00
-295.8	-295.6	0.20	12.000	0.065	2.00
-354.96	-354.8	0.16	13.000	0.065	2.00
-414.12	-413.9	0.22	14.000	0.065	2.00

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2533 Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

Sample Test Results

Manufacturer: Thermo Scientific **Model:** 8157BNUMD **Electrode Serial No.:** BW1-13563

The three-point calibration using three standard buffer solutions; pH 4.007 , pH 6.988 and pH 10.010

- During calibration, display of pH meter can be adjust to reading; pH 4.007 , pH 6.988 and pH 10.010

Standard Buffer Solution (pH)	Unit Under Calibration (pH)	Difference (pH)	Uncertainty of Measurement (pH)	Coverage Factor (k)
4.007	3.999	-0.008	0.0086	2.28
6.988	6.993	0.005	0.0085	2.00
10.010	10.013	0.003	0.013	2.00

Practical slope and zero point*

The three-point calibration using three standard buffer solutions; pH 4.007 , pH 6.988 and pH 10.010

- During calibration, display of pH meter can be adjust to reading; pH 4.007 , pH 6.988 and pH 10.010

The practical slope of the pH electrode; 57.73 (mV/pH), 97.58%

The zero point of the pH electrode; 6.41 (pH)

* Calibration Marked " Not TISI Accredited " in this Certificate have been included for completeness.

The End of Certificate

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2533 Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Phone: +66 2638 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

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Checklist for pH Meter

Worksheet number: WO-00076560

Instrument type: pH METER Model: TitroLine 7000 S/N: 10013826

Check (receive) 30 Jun 2025 Normal	Check (receive) 30 Jun 2025 Defective	Checklist	Check (send) 30 Jun 2025 Normal	Check (send) 30 Jun 2025 Defective	Note
☑	☐	1. Integrity of the tools	☑	☐	
☑	☐	2. Cleanliness of tools	☑	☐	
☑	☐	3. On-Off Swicth	☑	☐	
☑	☐	4. Keypad	☑	☐	
☑	☐	5. Display, Screen Contrast	☑	☐	
☑	☐	6. Electrode and Connection Cable	☑	☐	
☑	☐	7. Electrode (Level KCl)	☑	☐	
☑	☐	8. Electrode (Dust Protection Hood)	☑	☐	
☑	☐	9. Stand	☑	☐	

Recommend :

Mr.Pongpisut Suebchantha
Service Engineer

บริษัท ดีคเคแชท เทคโนโลยี จำกัด
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Phone: +66 2638 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

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Certificate of Calibration

Equipment : Digital Thermometer with Probe
Manufacturer: SI Analytics
Model: TitroLine 7000
Serial No.: 10013826
ID No.: BKK_EN0373
Condition of the item: Normal

Certificate No. : C15250720
Job No. : WO-00076560
Issued Date : 1 July 2025
Due Date: 30 June 2026
Page: 1 of 2

Customer : ALS Laboratory Group (Thailand) Co., Ltd.
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Environment Condition : Temperature: 30 °C ± 10 °C
Humidity: 55 %RH ± 25 %RH
Voltage: 220 VAC ± 10 %

Calibration Place : ALS Laboratory Group (Thailand) Co., Ltd.(Wet Chemistry Lab 2)
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Calibration By : Ms. Kaewkan Suradech
Calibration Date : 30 June 2025
The Method used : In house method, CAL-WI-69, by comparison with standard thermometer
Traceability : This certificate is traceable to the International System of Unit maintained by: Quality Reborn Co.,Ltd. (QR)

(Miss Kaewkan Suradech)
Person in charge

(Mr. Tweewong Thaithiang)
Authorized signatory

This certificate is issued the units of measurement according to the International System of Units (SI). It provides traceability of measurement to international or national standard or other recognized national standard laboratories.
The measurement uncertainty stated is the expended uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to provide a level of confidence of approximately 95%. It is determined in accordance with Evaluation of measurement data - Guide to the expression of uncertainty in measurement (JCGM 100).
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Reference standard equipment:

Equipment	Certificate no	Cal. date	Next Cal. date
Digital Thermometer with Probe	QR24-2043	21 August 2024	21 August 2025

Calibration Results:

Without Adjustment

Sensor Type: RTD Electrode Serial No.: BW1-13563 Channel: -
Diameter (mm): 12 Length (mm): 120 Immersion (mm): 120

Calibrate Point.(°C)	STD. Reading (°C)	UUC. Reading (°C)	Correction of UUC (°C)	Uncertainty (± °C)
25.0	24.994	24.9	0.094	0.20

The End of Certificate

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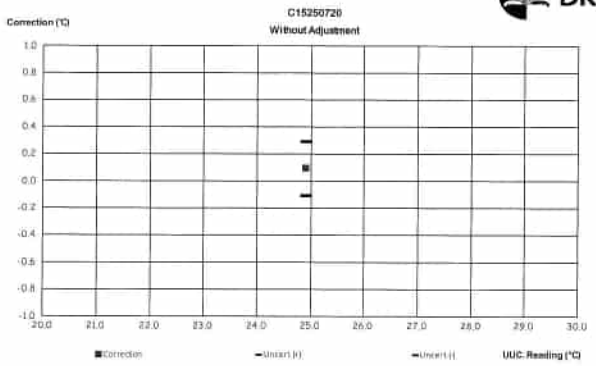

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ใบตรวจสอบสภาพเครื่องมือวัดอุณหภูมิ
(Digital Thermometer Checklist)

Equipment : Digital Thermometer with Probe — Certificate No. : C15250720

Serial No. : 10013826 — Model : TitroLine 7000

Check Date 30-Jun-2025 Normal	Check Date 30-Jun-2025 Defective	รายการตรวจเช็ค (Description)	Check before delivery 30-Jun-2025 Normal	Check before delivery 30-Jun-2025 Defective	หมายเหตุ (Remark)
		General			
☑	☐	1. สายไฟ (Electric wire)	☑	☐	
☑	☐	2. Adaptor / Power supply 220 / 110 VAC	☑	☐	
☑	☐	3. การทำงาน (On/Off Switch)	☑	☐	
☑	☐	4. การทำงาน (Selector Key)	☑	☐	
☑	☐	5. หน้าจอแสดงผล (Display)	☑	☐	
☐	☐	6. แบตเตอรี่ (Battery)	☐	☐	ไม่มี
☑	☐	7. สภาพตัวเครื่อง (Equipment Body)	☑	☐	
☑	☐	8. หัววัดเซ็นเซอร์ (Sensor (In / Ex)	☑	☐	

Note : _____

Ms. Kaewkan Suradech

Service Engineer

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Certificate of Calibration

Equipment:	CONDUCTIVITY METER	Certificate No.:	C24250156
Manufacturer:	Thermo Scientific	Job No.:	WO-00076560
Model:	ORION STAR A215	Issued Date:	30 June 2025
Serial No.:	X58031	Due Date:	30 June 2026
ID No.:	BKK_EN0373	Page:	1 of 2
Condition of the item:	Normal		

Customer: ALS Laboratory Group (Thailand) Co., Ltd.
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Environment Condition: Temperature 22.5 °C ± 0.1 °C
Relative Humidity 56.2 % ± 0.4 %

Calibration Place: ALS Laboratory Group (Thailand) Co., Ltd.(Wet Chemistry Lab 2)
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Calibration By: Mr. Pongpisut Suebchantha

Calibration Date: 30 June 2025

The Method Used: In house method, CAL-WI-49, base on ASTM D 1125-14 and D 5391-14

Traceability: This certificate is traceable to the SI Units maintained by CRM of NIST(SRM) through CPA chem Co., Ltd. (ISO/IEC 17034) Certificate No. 1066607, 1066608, 1066609

(Mr. Pongpisut Suebchantha)
Person in charge

(Miss Kaewkan Suradech)
Authorized signatory

This certificate is issued the units of measurement according to the International System of Units (SI). It provides traceability of measurement to international or national standard or other recognized national standard laboratories.

The measurement uncertainty stated is the expanded uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to provide a level of confidence of approximately 95%. It is determined in accordance with Evaluation of measurement data - Guide to the expression of uncertainty in measurement (JCGM 100).

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Calibration Results:

Manufacturer: Thermo Scientific **Model :** ORION 013005MD **Electrode Serial No.:** YV1-18418

Before Adjustment

Standard Conductivity Solution	Unit Under Calibration Reading	Correction	Coverage Factor (k)	Uncertainty (±)
84.003 µS/cm	91.88 µS/cm	-7.877 µS/cm	2.00	0.68 µS/cm
1413.1 µS/cm	1445 µS/cm	-31.9 µS/cm	2.00	11 µS/cm
12.881 mS/cm	13.06 mS/cm	-0.179 mS/cm	2.00	0.098 mS/cm

After Adjustment ; at 84.003 µS/cm, 1413.1 µS/cm, 12.880 mS/cm

Standard Conductivity Solution	Unit Under Calibration Reading	Correction	Coverage Factor (k)	Uncertainty (±)
84.003 µS/cm	84.14 µS/cm	-0.137 µS/cm	2.00	0.68 µS/cm
1413.1 µS/cm	1413 µS/cm	0.1 µS/cm	2.00	11 µS/cm
12.881 mS/cm	12.89 mS/cm	-0.009 mS/cm	2.00	0.098 mS/cm

The End of Certificate

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2533 Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

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Checklist for Conductivity Meter

Worksheet number: WO-00078560

Instrument type: Conductivity Meter Model: ORION STAR A215 S/N: X58031

Check (receive) 30 Jun 2025 Normal	Check (receive) 30 Jun 2025 Defective	Checklist	Check (send) 30 Jun 2025 Normal	Check (send) 30 Jun 2025 Defective	Note
☑	☐	1. Integrity of the tools	☑	☐	
☑	☐	2. Cleanliness of tools	☑	☐	
☑	☐	3. On-Off Swicth	☑	☐	
☑	☐	4. Keypad	☑	☐	*
☑	☐	5. Display, Screen Contrast	☑	☐	
☑	☐	6. Electrode and Connection Cable	☑	☐	
☐	☐	7. Electrode (Dust Protection Hood)	☐	☐	
☑	☐	8. Stand	☑	☐	

Recommend : * ปุ่มกดเลื่อน ขึ้น-ลง,ซ้าย-ขวา กดยาก

Mr. Pongpisut Suebchantha
Service Engineer

บริษัท ดีเคเอสเอช เทคโนโลยี จำกัด
DKSH Technology Limited
2533 ถนนสุขุมวิท แขวงพระโขนงเหนือ เขตวัฒนา กรุงเทพมหานคร 10260
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Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

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ilac-MRA

Certificate of Calibration

Equipment :	Digital Thermometer with Probe	Certificate No. :	C15250721
Manufacturer:	Thermo Scientific	Job No. :	WO-00076560
Model:	ORION STAR A215	Issued Date :	1 July 2025
Serial No.:	X58031	Due Date:	30 June 2026
ID No.:	BKK_EN0373	Page:	1 of 2
Condition of the item:	Normal		

Customer : ALS Laboratory Group (Thailand) Co., Ltd.
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Environment Condition :

Temperature:	30 °C	±	10 °C
Humidity:	55 %RH	±	25 %RH
Voltage:	220 VAC	±	10 %

Calibration Place : ALS Laboratory Group (Thailand) Co., Ltd.(Wet Chemistry Lab 2)
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Calibration By : Ms. Kaewkan Suradech
Calibration Date : 30 June 2025
The Method used : In house method, CAL-WI-69, by comparison with standard thermometer
Traceability : This certificate is traceable to the International System of Unit maintained by: Quality Reborn Co.,Ltd. (QR)

(Miss Kaewkan Suradech)
Person in charge

(Mr. Tweewong Thaithiang)
Authorized signatory

This certificate is issued the units of measurement according to the International System of Units (SI). It provides traceability of measurement to international or national standard or other recognized national standard laboratories.
The measurement uncertainty stated is the expanded uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to provide a level of confidence of approximately 95%. It is determined in accordance with Evaluation of measurement data - Guide to the expression of uncertainty in measurement (JCGM 100).
These results may be affected by deviations from specified conditions. The results relate only to the items tested, calibrated or sampled. This report shall not be reproduced except in full without approval of DKSH Technology Limited.

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DKSH Technology Limited
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2533 Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

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Certificate No.: C15250721
Page: 2 of 2

Reference standard equipment:

Equipment	Certificate no	Cal. date	Next Cal. date
Digital Thermometer with Probe	QR24-2043	21 August 2024	21 August 2025

Calibration Results:

Without Adjustment

Sensor Type: RTD Electrode Serial No.: YV1-18416 Channel: -
Diameter (mm): 15 Length (mm): 120 Immersion (mm): 120

Calibrate Point.(°C)	STD. Reading (°C)	UUC. Reading (°C)	Correction of UUC (°C)	Uncertainty (± °C)
25.0	24.994	25.0	-0.006	0.20

The End of Certificate

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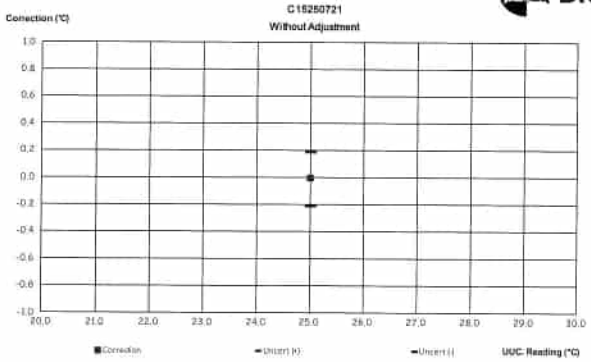

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ใบตรวจสอบสภาพเครื่องมือวัดอุณหภูมิ
(Digital Thermometer Checklist)

Equipment : Digital Thermometer with Probe Certificate No. : C15250721

Serial No. : X58031 Model : ORION STAR A215

Check Date		รายการตรวจเช็ค (Description)	Check before delivery		หมายเหตุ (Remark)
30-Jun-2025			30-Jun-2025		
Normal	Defective		Normal	Defective	
		General			
☑	☐	1. สายไฟ (Electric wire)	☑	☐	
☑	☐	2. Adaptor / Power supply 220 / 110 VAC	☑	☐	
☑	☐	3. การทำงาน (On/Off Switch)	☑	☐	
☑	☐	4. การทำงาน (Selector Key)	☑	☐	
☑	☐	5. หน้าจอแสดงผล (Display)	☑	☐	
☐	☐	6. แบตเตอรี่ (Battery)	☐	☐	ไม่มี
☑	☐	7. สภาพตัวเครื่อง (Equipment Body)	☑	☐	
☑	☐	8. หัววัดเซ็นเซอร์ (Sensor (In / Ex)	☑	☐	

Note : _____

Ms. Kaewkan Suradech

Service Engineer

บริษัท ดีเคเอสเอช เทคโนโลยี จำกัด
DKSH Technology Limited
2533 ถนนสุขุมวิท แขวงพระโขนงเหนือ เขตพระโขนง กรุงเทพมหานคร 10260
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Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

DKSH

Certificate of Calibration

Equipment: Automatic Titrator
Manufacturer: SI Analytics
Model: TitroLine 7000
Serial No.: 10013826
ID No.: BKK_EN0373
Type of Titration : Motor - driven
Condition of the item: Normal

Certificate No.: C32250030
Job No.: WO-00076560
Issued Date: 30 June 2025
Due Date: 30 June 2026
Page: 1 of 3

Customer: ALS Laboratory Group (Thailand) Co., Ltd.
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Environment Condition:

Temperature	22	°C	±	0.4 °C
Relative Humidity	56	%	±	1.4 %
Atmospheric Pressure	1009	mbar	±	0.4 mbar

Calibration Place: ALS Laboratory Group (Thailand) Co., Ltd. (Wet Chemistry Lab 2)
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Calibration By: Mr. Atachai Ngamchanat
Calibration Date: 30 June 2025
The Method Used: In house method, CAL-WI-57, base on ISO 8655:2002
Traceability: This certificate is traceable to the SI Units maintained by National Institute of Metrology (NIMT), Thailand through DKSH Technology Limited. Certificate No. C01243206

(Mr. Atachai Ngamchanat)
Person in charge

(Miss Kaewkan Suradech)
Authorized signatory

This certificate is issued the units of measurement according to the International System of Units (SI). It provides traceability of measurement to international or national standard or other recognized national standard laboratories.
The measurement uncertainty stated is the expanded uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to provide a level of confidence of approximately 95%. It is determined in accordance with Evaluation of measurement data - Guide to the expression of uncertainty in measurement (JCGM 100).
These results may be affected by deviations from specified conditions. The results relate only to the items tested, calibrated or sampled. This report shall not be reproduced except in full without approval of DKSH Technology Limited.

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Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

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Calibration Results:
Nominal Volume 20 ml
Manufacturer: SI Analytics Burettes Model : TZ 3920 Serial No., Nr : 007734
Exchange Unit Model : WA-20 Exchange Unit Serial No. : 10045524 Nominal Vol.: 20 ml

Piston burettes of volumetric apparatus for automatic titrator

Volume (%)	Volume (ml)	Measurement Volume (V_M) (ml)	Systematic error (trueness) es (%)	es (µl)	Random error (precision) CV (%)	S_r (µl)	Measurement Uncertainty (µl)	k
10%	2.0000	1.9967	-0.002	-0.3	0.004	0.7	0.73	2.04
50%	10.0000	10.0076	0.038	7.6	0.003	0.7	1.0	2.00
100%	20.0000	20.0026	0.013	2.6	0.003	0.6	1.5	2.00

ISO 8655-3:2002(E) Table 1 - Maximum permissible errors for motor-driven piston burettes

Nominal volume	Maximum permissible systematic error		Maximum permissible random error	
ml	± %	± µl [a]	± % [b]	± µl [c]
≤1	0.6	6	0.1	1
2	0.5	10	0.1	2
5	0.3	15	0.1	5
10	0.2	20	0.07	7
20	0.2	40	0.07	14
25	0.2	50	0.07	17.5
50	0.2	100	0.05	25
100	0.2	200	0.03	30

a Expressed as the deviation of the mean of tenfold measurement from the nominal volume or from the selected volume (see ISO 8655-6:2002, 8.4)

b Expressed as the coefficient of variation of a tenfold measurement (see ISO 8655-6:2002, 8.5)

c Expressed as the repeatability standard deviation of a tenfold measurement (see ISO 8655-6:2002, 8.5)

The End of Certificate

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DKSH

Checklist for Automatic Titrator

Worksheet number: WO-00076560

Instrument type: Automatic Titrator Model: TitroLine 7000 S/N: 10013826

Check (receive)		Checklist	Check (send)		Note
30 Jun 2025			30 Jun 2025		
Normal	Defective		Normal	Defective	
☑	☐	1. Integrity of the tools	☑	☐	
☑	☐	2. Cleanliness of tools	☑	☐	
☑	☐	3. On-Off Swicth	☑	☐	
☑	☐	4. Keypad	☑	☐	
☑	☐	5. Display, Screen Contrast	☑	☐	
☑	☐	6. Piston Burettes	☑	☐	
☑	☐	7. Function Rinsing and Dosing	☑	☐	
☑	☐	8. Dosing silicone tube and Accessories	☑	☐	

Recommend : _____

Mr. Atachai Ngamchanat

Service Engineer

บริษัท ดีเคเอสเอช เทคโนโลยี จำกัด
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2533 ถนนสุขุมวิท แขวงพระโขนงเหนือ เขตพระโขนง กรุงเทพมหานคร 10260
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DKSH

Certificate of Calibration

Equipment:	Automatic Titrator	Certificate No.:	C32250031
Manufacturer:	SI Analytics	Job No.:	WO-00076560
Model:	TitroLine 7000	Issued Date:	30 June 2025
Serial No.:	10013826	Due Date:	30 June 2026
ID No.:	BKK_EN0373	Page:	1 of 3
Type of Titration :	Motor - driven		
Condition of the Item:	Normal		

Customer: ALS Laboratory Group (Thailand) Co., Ltd.
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Environment Condition:

Temperature	22	°C	±	0.2 °C
Relative Humidity	56	%	±	1.9 %
Atmospheric Pressure	1009	mbar	±	0.2 mbar

Calibration Place: ALS Laboratory Group (Thailand) Co., Ltd. (Wet Chemistry Lab 2)
104 Soi Pattanakarn 40, Pattanakarn Rd.,
Suan Luang, Bangkok 10250 Thailand

Calibration By: Mr. Atachai Ngamchanat

Calibration Date: 30 June 2025

The Method Used: In house method, CAL-WI-57, base on ISO 8655:2002

Traceability: This certificate is traceable to the SI Units maintained by National Institute of Metrology (NIMT), Thailand through DKSH Technology Limited. Certificate No. C01243206

(Mr. Atachai Ngamchanat)
Person in charge

(Miss Kaewkan Suradech)
Authorized signatory

This certificate is issued the units of measurement according to the International System of Units (SI). It provides traceability of measurement to international or national standard or other recognized national standard laboratories.
The measurement uncertainty stated is the expanded uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to provide a level of confidence of approximately 95%. It is determined in accordance with Evaluation of measurement data - Guide to the expression of uncertainty in measurement (JCGM 100).
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2533 Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

Calibration Results:

Nominal Volume 20 ml

Manufacturer:	SI Analytics	Burettes Model :	TZ 3920	Serial No., Nr :	007773
Exchange Unit Model :	WA-20	Exchange Unit Serial No. :	10045489	Nominal Vol.:	20 ml

Piston burettes of volumetric apparatus for automatic titrator

Volume (%)	Volume (ml)	Measurement Volume (V_{20}) (ml)	Systematic error (trueness) es (%)	es (µl)	Random error (precision) CV (%)	S (µl)	Measurement Uncertainty (µl)	k
10%	2.0000	2.0009	0.004	0.9	0.004	0.7	0.73	2.04
50%	10.0000	10.0050	0.025	5.0	0.002	0.4	0.90	2.00
100%	20.0000	20.0054	0.027	5.4	0.003	0.5	1.5	2.00

ISO 8655-3:2002(E) Table 1 - Maximum permissible errors for motor-driven piston burettes

Nominal volume	Maximum permissible systematic error		Maximum permissible random error	
ml	± %	± µl [a]	± % [b]	± µl [c]
≤1	0.6	6	0.1	1
2	0.5	10	0.1	2
5	0.3	15	0.1	5
10	0.2	20	0.07	7
20	0.2	40	0.07	14
25	0.2	50	0.07	17.5
50	0.2	100	0.05	25
100	0.2	200	0.03	30

a Expressed as the deviation of the mean of tenfold measurement from the nominal volume or from the selected volume (see ISO 8655-6:2002, 8.4)

b Expressed as the coefficient of variation of a tenfold measurement (see ISO 8655-6:2002, 8.5)

c Expressed as the repeatability standard deviation of a tenfold measurement (see ISO 8655-6:2002, 8.5)

The End of Certificate

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DKSH Technology Limited
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Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

DKSH

Checklist for Automatic Titrator

Worksheet number: WO-00076560

Instrument type: Automatic Titrator Model: TitroLine 7000 S/N: 10013826

Check (receive) 30 Jun 2025 Normal	Check (receive) 30 Jun 2025 Defective	Checklist	Check (send) 30 Jun 2025 Normal	Check (send) 30 Jun 2025 Defective	Note
☑	☐	1. Integrity of the tools	☑	☐	
☑	☐	2. Cleanliness of tools	☑	☐	
☑	☐	3. On-Off Swicth	☑	☐	
☑	☐	4. Keypad	☑	☐	
☑	☐	5. Display, Screen Contrast	☑	☐	
☑	☐	6. Piston Burettes	☑	☐	
☑	☐	7. Function Rinsing and Dosing	☑	☐	
☑	☐	8. Dosing silicone tube and Accessories	☑	☐	

Recommend : _____

Mr. Atachai Ngamchanat
Service Engineer

บริษัท ดีเคเอสเอช เทคโนโลยี จำกัด
DKSH Technology Limited
2533 กรุงเทพฯ
2533 Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Phone: +66 2639 7000 Email: info.calibration@dksh.com Website: www.dksh.com/scientific-thailand

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

Certificate of Testing

Cert.No.: 25TW145
Page.: 1 of 2

Equipment :	DO Meter
Manufacturer :	YSI
Model :	5100
Serial No. :	15L103204
ID No. :	BKK_EN0205
Received Date :	24 July 2025
Test Date :	25 July 2025
Reference :	2507-0836DSC-1
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Laboratory Condition :	Temperature (25 ± 5) °C Humidity (50 ± 20) %
Test Procedure :	In - house method : CP-CH9 by Comparison Technique with Azide Modification Method
Tested by :	Walalak Sirithean
Approved by :	Saithip Approved Signatory

REVIEW BY : Jinda K
APPROVED BY : Siriluk P
NEXT CAL DATE : 25/01/27

( ) Chakrit Waewwanjua
( ) Ponpan Paipim
(✓) Saithip Meangmai

Issue Date : 25 July 2025

Condition of this result of calibration

1. Reference Standard Instruments :
   This measurement result is traceable to the International System of Unit through the reference standards laboratory of Industrial Calibration Center, Technology Promotion Association (Thailand-Japan).

Instruments	ID No.	Certificate No.	Due Date
1. Burette	130BU10	25CG1126	18 Mar 2027
2. Balance	140RC001	24MM601/1	16 Sep 2025

2. Standard Material :-

Material	Manufacturer	Lot.No.	Assay
Sodium Thiosulfate 5-Hydrate AR	KEMAUS	2203162447	99.6%

Result : **Dissolved Oxygen Meter Adjustment With Air 100 %**
Dissolved Oxygen Probe No.: 23L100673

Titration Method (Azide Modification Method) (mg/L)	DO Meter Reading (mg/L)	Standard Deviation (mg/L)
8.20	8.20	0.0055

This report was certified only for the instrument we tested.It is allowable to use for study Intend to use for advertising and referral purpose is prohibited.TIis report may not be reproduced other in full, without written approval of the laboratory

-o0o-

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CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
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TEL.0-2717-3000-29 FAX.0-2719-9484

ilac-MRA

NSC-TEH-TE175025 CALIBRATION 0268

Certificate of Calibration

Cert. No.: 25LM122
Page.: 1 of 2

Equipment : DO Meter with Sensor
Manufacturer : YSI
Model : 5100
Serial No. : 15L103204
ID No. : BKK_EN0205
Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Location : TPA On Site Calibration Laboratory
Received Order : 24 July 2025
Calibrated Date : 25 July 2025
Ambient Temperature : (26 ± 10) °C
Relative Humidity : (50 ± 30) %
AC Line Voltage : (220 ± 22) V
Calibrated by : Warakorn Leingagtrakul
Approved by : Approved Signatory
( ) Chakrit Waewwanjua
( ) Suwit Imjai
(✓) Kunchit Promprat
Issue Date : 31 July 2025

The Uncertainties are for a confidence probability of approximately 95%

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

Equipment : DO Meter with Sensor
Condition As-Received : Used Item
Reference : 2507-0836DSC-2

Procedure Used :-
Calibration were conducted using in-house calibration procedure CP-OT01 according to comparison with Industrial Platinum Resistance Thermometer (IPRT) into Temperature Bath.
The temperature scale used was based on ITS-90.

Condition of this result of calibration
1. Reference standard instrument:-

Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Digital Thermometer	2188080	2411022	TPA	17 Sep 2025

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This measurement result is traceable to the International System of Unit maintained through :
Remark : TPA : Technology Promotion Association (Thailand - Japan)
Result of Calibration :- (*) Without Adjustment
Function : Temperature measurement.
This instrument was connected with temperature sensor, S/N.: 23L100673

Calibration Point (°C)	Immersion Depth (mm)	Standard Temperature (°C)	UUC* Reading (°C)	Error (°C)	Uncertainty (± °C)	Coverage Factor k
20.00	80	20.003	19.74	-0.263	0.15	2.00

UUC* : Unit Under Calibration

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

-o0o-

SCG

Metrology Center
SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260
Bangkok Tel : +668 9205 6851 , +669 81924 8059
Saraburi Tel : +669 8247 2360
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

NSC-TEH-TE 17525 CALIBRATION 0264

Certificate No. T252279

Certificate of Calibration

Equipment : Chamber (Incubator)
Manufacturer : MEMMERT
Model : ICP 750
Serial No. : F818.0033
Customer Code : BKK_EN0272
ID No. : T8041A4
Customer : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250
Customer Location : Wet Chemistry Lab 2
Date of Receipt : 17 December 2025
Calibrated By : Atiphong Rongrat (Technician)
Approved By : / Boonchai Suriyawong (Site Calibration Manager)
Date of Issue : 12 JAN 2026

REVIEW BY linda K.
APPROVED BY Sirilak P.
CRYSTAL DATE 24/12/25

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

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

Certificate No. T252279 Page 2 of 4

Calibration Report

Equipment : Chamber (Incubator)
Date of Calibration : 24 December 2025
Environment : Temperature : 23.4-24.9 °C
Line Voltage : 221.4-224.7 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

1. This equipment was calibrated by insert 12 resistance thermometer detectors into its chamber , the other one resistance thermometer detector use for ambient temperature measurement . The calibration was done in according to WI-T20 (based on ASTM E145-94 (Reapproved 2001) and AS2853-1986).
   All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

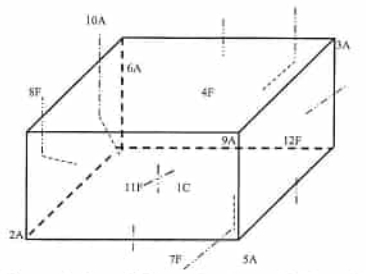
Instrument	Model	Instrument No.	Certificate No.	Due Date
RTD	100 ohm	31-(CH1-10)	T250835	24 May 2026
RTD	100 ohm	32-(CH1-10)	T250835	24 May 2026
DATA LOGGER	34970A	T193	T250835	24 May 2026

3. This certificate is traceable to :
   National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.)
4. Condition of calibrated item : good
   Equipment Description :
   Time Constant 2 Hour - Minute At 20 °C
   Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max
   ☐ Close
   ☒ Not Available
5. Adjustment :
   (X) without adjustment ( ) after adjustment

Approved By:

Certificate No. T252279 Page 3 of 4

Calibration Report



C = Centre , F = Centre of Face , A = Corner , E = Centre of Edge

1C	=	31-CH1
2A	=	31-CH2
3A	=	31-CH3
4F	=	31-CH4
5A	=	31-CH5
6A	=	31-CH6
7F	=	31-CH7
8F	=	31-CH8
9A	=	31-CH9
10A	=	31-CH10
11F	=	32-CH1
12F	=	32-CH2

Approved By:

Certificate No. T252279 Page 4 of 4

Calibration Report

Measurement Results :

Calibration Point	Average Standard Reading at each position (°C)											
	31-CH1	31-CH2	31-CH3	31-CH4	31-CH5	31-CH6	31-CH7	31-CH8	31-CH9	31-CH10	32-CH1	32-CH2
20	20.11	20.22	20.03	20.39	20.12	19.80	19.89	20.19	20.26	19.97	19.85	20.06

Chamber (Incubator)			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability (±°C)	Uniformity (°C)	Uncertainty (±°C)	Coverage Factor k
	Min , Max	Average					
20.0	19.9 , 20.1	20.0	20.07	0.10	0.59	0.39	2.03

The calibration result apply only the above calibrated item.
The result of test was found accurate as shown on date and place of test only.
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

Approved By:

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

ilac-MRA
NSC-TISI-TIS17025 CALIBRATION 0999

Certificate of Calibration

Cert.No.: 25CG3385
Page.: 1 of 2

Equipment :	Burette
Capacity :	50 mL
Serial No. :	-
ID. No. :	BKK_EN0422
Manufacturer :	Witeg
Made in :	Germany
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Ambient Temperature :	(20 ± 2.5) °C
Relative Humidity :	(50 ± 10) %
Barometric Pressure :	753 mmHg
Calibration Procedure :	ASTM E 542 - 01
Calibrated by :	Srisuda Khamtha
Approved by :	Approved Signatory
	( ) Ponpan Paipim (✓) Chakrit Waewwanjua
Issue Date :	3 September 2025

REVIEW BY Suda K.
APPROVED BY Sirilak P.
NEXT CAL DATE 03/09/26

The Uncertainties are for a confidence probability of approximately 95%

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

Equipment : Burette
Received Date : 1 September 2025
Condition As-Received : Used Item
Calibration Date : 3 September 2025
Reference : 2509-0049DSC-1

Cert.No.: 25CG3385
Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instruments :

Instruments	Model	Serial No.	ID. No.	Certificate No.	Traceability	Due date
1) Balance	MS204TS	C226356983	140RC010	24MM603	TPA	10 Oct 2025
2) Data Logger	HL-20D	20683159	140EC012	24H2129	TPA	15 Oct 2025
3) Digital Thermometer	HH376	230806555	140EC013	25I1740	TPA	17 Jan 2026

This measurement result is traceable to SI Unit

2. The certificate is valid only to the item calibrated on date and place of calibration.
3. True value is converted to true volume at the standard temperature of 20 °C

Calibration result :

Nominal capacity (mL)	Reading (mL)	Uncertainty (± mL)	k Factor
10	9.9841	0.0082	2.00
25	24.9804	0.0087	2.00
50	49.9819	0.010	2.00

Remark mL = cm^3

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

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SCG

Metrology Center

SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260
Bangkok Tel : +668 9205 6851 , +669 81924 0059
Saraburi Tel : +669 8247 2360
Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T252276

Certificate of Calibration

Page 1 of 4

Equipment : **Hot Block**
Manufacturer : **Environmental Express**
Model : **B3000-240**
Serial No. : **2021CODW148**
Customer Code : **BKK_EN0370**
ID No. : **T2940A5**
Customer : **ALS Laboratory Group (Thailand) Co.,Ltd.**
104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,
Khet Suan Luang, Bangkok 10250
Customer Location : **Wet Chemistry Lab2**
Date of Receipt : **17 December 2025**
Calibrated By : **Sujjar Naknakred (Site Calibration Manager)**
Approved By : _____ / **Boonchai Suriyawong (Site Calibration Manager)**
Date of Issue : 0 6 JAN 2026

REVIEW BY Jinda K.
APPROVED BY Sirilak P.
NEXT CAL DATE 23/12/26

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

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

FM-TL04 I02/27-03-68

SCG

Metrology Center

SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T252276

Page 2 of 4

Calibration Report

Equipment : **Hot Block**
Date of Calibration : **23 December 2025**
Environment : **Temperature : 24°C - 24.4°C**
Line Voltage : 221.3 V - 225.6 V
Relative Humidity 55 - 65 %RH

Condition of this results of calibration :

1. This equipment was calibrated by insert 29 standard thermocouples type T into its chamber , the other one standard thermocouples type T use for ambient temperature measurement . The calibration was done in according to WI-T20.
All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .
2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
TC	TYPE T	TN221-TN230	T251759	17 October 2026
TC	TYPE T	TN231-TN240	T251759	17 October 2026
DATA LOGGER	34970A	T261	T251759	17 October 2026

3. This certificate is traceable to :
National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.)
4. Condition of calibrated item : good
Equipment Description :
Time Constant 1 Hour 37 Minute At 150 °C
Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max
☐ Close
☒ Not Available
5. Adjustment :
( ) without adjustment (X) after adjustment

Approved By. _____

FM-TL05 I02/27-03-68

SCG

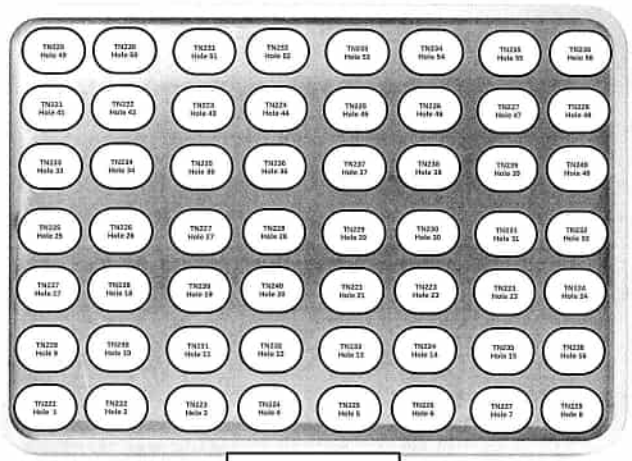
Metrology Center

SCI ECO Services Company Limited
51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T252276

Page 3 of 4

Calibration Report



Approved By. _____

FM-TL05 I02/27-03-68

SCG

Metrology Center

SCI ECO Services Company Limited

51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Certificate No. T252276 Page 4 of 4

Calibration Report

Measurement Results

		Average Standard Reading at each position (°C)									
CAL POINT		TN221 Hole 1	TN222 Hole 2	TN223 Hole 3	TN224 Hole 4	TN225 Hole 5	TN226 Hole 6	TN227 Hole 7	TN228 Hole 8	TN229 Hole 9	TN230 Hole 10
150	Max °C	149.91	150.71	150.47	150.02	149.97	150.84	150.22	150.75	150.45	149.98
	Min °C	149.18	152.18	149.80	149.36	149.59	150.31	149.77	150.44	149.46	149.53
	Average °C	**149.55**	**150.44**	**150.13**	**149.69**	**149.78**	**150.58**	**149.99**	**150.59**	**149.95**	**149.76**
CAL POINT		TN231 Hole 11	TN232 Hole 12	TN233 Hole 13	TN234 Hole 14	TN235 Hole 15	TN236 Hole 16	TN237 Hole 17	TN238 Hole 18	TN239 Hole 19	TN240 Hole 20
150	Max °C	150.12	150.09	149.94	150.13	150.67	150.36	150.65	150.21	150.30	150.12
	Min °C	149.57	149.50	149.55	149.59	150.36	150.06	149.73	149.84	149.52	149.59
	Average °C	**149.85**	**149.79**	**149.75**	**149.86**	**150.51**	**150.21**	**150.19**	**150.02**	**149.91**	**149.86**
CAL POINT		TN221 Hole 21	TN222 Hole 22	TN223 Hole 23	TN224 Hole 24	TN225 Hole 25	TN226 Hole 26	TN227 Hole 27	TN228 Hole 28	TN229 Hole 29	TN230 Hole 30
150	Max °C	150.10	149.78	150.36	150.52	150.24	149.78	149.81	149.61	150.38	150.05
	Min °C	149.57	149.39	149.42	149.94	150.00	149.53	149.14	149.38	150.04	149.69
	Average °C	**149.83**	**149.59**	**149.89**	**150.23**	**150.12**	**149.65**	**149.48**	**149.49**	**150.20**	**149.87**
CAL POINT		TN231 Hole 31	TN232 Hole 32	TN233 Hole 33	TN234 Hole 34	TN235 Hole 35	TN236 Hole 36	TN237 Hole 37	TN238 Hole 38	TN239 Hole 39	TN240 Hole 40
150	Max °C	150.07	149.46	149.52	149.91	150.05	150.20	149.69	149.70	150.04	149.73
	Min °C	149.49	149.30	149.39	149.70	149.66	149.68	149.35	149.33	149.75	149.46
	Average °C	**149.78**	**149.38**	**149.46**	**149.80**	**149.85**	**149.94**	**149.52**	**149.52**	**149.90**	**149.60**
CAL POINT		TN221 Hole 41	TN222 Hole 42	TN223 Hole 43	TN224 Hole 44	TN225 Hole 45	TN226 Hole 46	TN227 Hole 47	TN228 Hole 48	TN229 Hole 49	TN230 Hole 50
150	Max °C	149.91	150.32	150.30	149.89	149.91	149.83	150.14	149.58	149.91	150.29
	Min °C	149.18	149.81	149.56	149.44	149.38	149.60	149.61	149.27	149.36	149.48
	Average °C	**149.35**	**150.07**	**149.83**	**149.57**	**149.65**	**149.77**	**149.87**	**149.42**	**149.64**	**149.88**
CAL POINT		TN231 Hole 51	TN232 Hole 52	TN233 Hole 53	TN234 Hole 54	TN235 Hole 55	TN236 Hole 56				
150	Max °C	150.25	150.40	150.59	150.13	150.57	150.43				
	Min °C	149.31	149.89	150.13	149.68	149.75	149.87				
	Average °C	**149.78**	**150.14**	**150.36**	**149.90**	**150.16**	**150.15**				

Hot Block			Temperature Distribution	
Setting (°C)	Reading (°C)		Stability (± °C)	Uncertainty (± °C)
	Min , Max	Average		
150	149.9 , 150.1	150.0	0.50	1.01

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

End of Certificate.

Approved By.

FM-TL05 I02/27-03-68

TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)

CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES

534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250

TEL.0-2717-3000-29 FAX.0-2719-9484

ilac-MRA

NSC-TISI-T0177025 CALIBRATION 0068

Certificate of Calibration

Cert.No.: 25CHO537

Page.: 1 of 3

Equipment :	Spectrophotometer
Manufacturer :	HACH
Model :	DR3900
Serial No. :	2021559
ID No. :	BKK_EN0356
Condition As-Received:	Used Item
Received Date :	08 October 2025
Calibration Date :	08 October 2025
Reference :	2510-0042OC-11
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Calibration Place :	Wet Chemistry Lab 2
Ambient Temperature :	(21.9 to 21.9) °C (On-Site)
Relative Humidity :	(62 to 65) % (On-Site)
Calibration Procedure :	In - house method : CP-OCH4 based on ASTM E 275-08
Calibrated by :	Uthen Kankawi
Approved by :	Saithip Approved Signatory
	( ) Chakrit Waewwanjsa ( ) Ponpan Palpim (✓) Saithip Meangmai
Issue Date :	9 October 2025

REVIEW BY Linda K.

APPROVED BY Sirilak P.

NEXT CAL DATE 08/10/26

The Uncertainties are for a confidence probability of approximately 95%

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

Condition of calibration result

1. Reference Standard Material :

Material	Serial No.	Certificate No.	Due date
1. Absorbance Standard set	44487	122584	31 May 2026
2. Wavelength Standard set	36730	118120	15 Jan 2026
3. Wavelength Standard set	36730	118121	15 Jan 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This certificate is traceable to the International System of Unit maintained through :
   - Stama Scientific Ltd.
4. Spectral BandWidth : 5 nm
   Scan Speed : - nm/min

Calibration Results : without adjustment

Wavelength Accuracy

Certified Values of Reference Material (nm)	UUC Reading (nm)	Uncertainty of Measurement (± nm)	Coverage Factor k
418.40	418	0.59	2.00
479.66	480	0.59	2.00
513.75	513	0.59	2.00
537.00	536	0.59	2.00
638.00	638	0.59	2.00
747.61	748	0.59	2.00
807.04	807	0.59	2.00

Calibration Results : without adjustment

Photometric Accuracy

Wavelength (nm)	Certified Values of Reference Material (Abs)	UUC Reading (Abs)	Uncertainty of Measurement (±Abs)	Coverage Factor k
420.0	Zero	0.000	0.0028	2.00
	0.5750	0.573	0.0028	2.00
	0.7156	0.713	0.0028	2.00
	1.0176	1.014	0.0028	2.00
440.0	Zero	0.000	0.0028	2.00
	0.5598	0.557	0.0028	2.00
	0.7037	0.700	0.0028	2.00
	1.0013	0.997	0.0028	2.00
465.0	Zero	0.000	0.0028	2.00
	0.5222	0.522	0.0028	2.00
	0.6646	0.664	0.0028	2.00
	0.9444	0.945	0.0028	2.00
546.1	Zero	0.000	0.0028	2.00
	0.5234	0.523	0.0028	2.00
	0.7007	0.700	0.0028	2.00
	0.9992	0.999	0.0028	2.00
590.0	Zero	0.000	0.0028	2.00
	0.5573	0.556	0.0028	2.00
	0.7760	0.773	0.0028	2.00
	1.1104	1.108	0.0028	2.00
635.0	Zero	0.000	0.0028	2.00
	0.5648	0.565	0.0028	2.00
	0.7654	0.765	0.0028	2.00
	1.0961	1.096	0.0028	2.00

Remark

- Each individual filter is measured against the empty filter holder (blank) used to zero the spectrophotometer
- UUC = Unit Under Calibration

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

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ภาคผนวก จ

สำเนาหนังสืออนุญาตขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

ที่ อก ๐๓๑๐(๑)/ ๑๖๓๖๘

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๐ พฤศจิกายน ๒๕๖๖

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และขอบิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๙ สิงหาคม ๒๕๖๖

สิ่งที่ส่งมาด้วย ๑. รายชื่อผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๑ แผ่น
๒. รายชื่อเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๕ แผ่น
๓. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๓๑ แผ่น

ตามหนังสือที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ขอต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๖ ราย ตามสิ่งที่ส่งมาด้วย ๑
ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ ๑๔๑ ราย ตามสิ่งที่ส่งมาด้วย ๒
ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย น้ำใต้ดิน อากาศเสีย สิ่งปฏิกูล หรือวัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย ๓

หนังสือฉบับนี้จะหมดอายุในวันที่ ๒ กันยายน ๒๕๖๙ หากประสงค์จะต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อกรมโรงงานอุตสาหกรรม ภายใน ๑๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ทั้งนี้ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ที่หน้าเว็บไซต์กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายศิระ จันทร์เฉิด)
นักวิทยาศาสตร์เชี่ยวชาญ รักษาราชการแทน
ผู้อำนวยการกองวิจัยและเทคโนโลยีมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเทคโนโลยีมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๑๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

Green Industry
"อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"

เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔
ที่ อก ๐๓๑๐(๑)/ ๑๖๓๖๘ ลงวันที่ ๒๐ พฤศจิกายน ๒๕๖๖

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๖ ราย

๑) นางสาวพุทธาพร จันทร์เปล่ง	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๑
๒) นางสาวชัชนัย โกมารกุล ณ นคร	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๒
๓) นายศรายุทธ จิตรานนท์	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๓
๔) นางสาวกนกกร เอนก	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๔
๕) นายสุริยา สอนแก้ว	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๕
๖) นายวิชาญ ชุณหรัต	ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๖

เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔
ที่ อก ๐๓๑๐(๑)/ ๑๖๓๖๘ ลงวันที่ ๒๐ พฤศจิกายน ๒๕๖๖

ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๑๔๑ ราย

๑) นายกาจบัณฑิต กิตติคุภวณิชย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๑
๒) นายภัทรพล สว่างใจธรรม์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๒
๓) นายนราธิป เหือกขัยคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๓
๔) นายศิริโชค พงษ์ประสม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๔
๕) นายณัฐวุฒิ ตัวแพง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๕
๖) นางสาวจินดา โชจุลธรรม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๖
๗) นางสาวสาวิตรี น้อยเสรียม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๗
๘) นางสาวชณัฐกาญจน์ อิ่มชม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๘
๙) นางสาวนวรินทร์ สายเส็ง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๙
๑๐) นางสาวนันทวดี สมบูรณ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๐
๑๑) นางสาวครัณยา เฉลิมอำรงค์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๑
๑๒) นางสาวอัญญธร มงคลจิรวุฒิ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๒
๑๓) นางสาวศิริลักษณ์ บุนนาค	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๓
๑๔) นายนพพงศ์ จันทรุพินอู่	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๔
๑๕) นายนรเศรษฐ์ โกมาลย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๕
๑๖) นายธันวา จริยา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๖
๑๗) นางสาวมาศวินทร์ แก้วมีน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๗
๑๘) นางสาวสุวิมล ชัยเรืองวุฒิ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๘
๑๙) นางสาวสุชาดา ธรรมอาวร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๙
๒๐) นางสาวเปมิกา ชัยเดชชนกุล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๐
๒๑) นางสาวศศิธร หมูสวัสดิ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๑
๒๒) นางสาวเสาวลักษณ์ ภู่นกาอำพร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๒
๒๓) นายอภิสิทธิ์ สิงหา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๓
๒๔) นายศักดิ์สิทธิ์ ไพศาลพิสุทธิ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๔
๒๕) ว่าที่ร้อยตรีหญิง พรรณิภา ข้าเจริญ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๕
๒๖) นางจิตตา คำภูแก้ว	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๖
๒๗) นางสาวธรรรวรณ รักยง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๗
๒๘) นางสาวนพรัตน์ แย้มกรานต์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๘
๒๙) นายจุลเดช วาจินทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๙
๓๐) นางสาวคายุรัตน์ ร้องคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๐
๓๑) นายพรมมี ศรีปัดเบตร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๑
๓๒) นายอุทิศ อุ่นสิม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๒
๓๓) ว่าที่ร้อยตรี เฉลิมเกียรติ อมรศรีเสริม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๓
๓๔) นางสาววรียา สร้างณา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๔
๓๕) นายอนุพงศ์ รัตนศรีประเสริฐ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๕

๓๖) นางสาวจุฑารัตน์...

๓๖) นางสาวจุฑารัตน์ โกนสันเทียะ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๖
๓๗) นางสาวจารุวรรณ พิมพ์อภิกฤติยา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๗
๓๘) นางสาวปรางค์ทิพย์ กิจโพศาลศักดิ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๘
๓๙) นางสาวเดือนใจ ทางกลาง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๙
๔๐) นางสาวจิราพร ศิริเวช	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๐
๔๑) นายวราภร ผูกรักษ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๑
๔๒) นายพนล วีรียะสหกิจ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๒
๔๓) นายธนิต เจนจบ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๓
๔๔) นายคณิศร ท้าเพชร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๔
๔๕) นายภูวิช พรหมสะอาด	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๕
๔๖) นายธนเดช โภคาพิพัฒน์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๖
๔๗) นายชวฤทธิ์ วงษ์จันทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๗
๔๘) นายอาทิตย์ ศรีเสน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๘
๔๙) นายเจษฎินทร์ คงศักดิ์ไทย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๙
๕๐) นายจรัส บุญยิ่ง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๐
๕๑) นายธนาณัติ เอนก	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๑
๕๒) นายอภิวัฒน์ หุมหนู	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๒
๕๓) นางสาวสุภาชะวัญ มาก	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๓
๕๔) นางสาวทัตพร ชวาลสมบูรณ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๔
๕๕) นางสาวอิสิมา บุญเพ็ง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๕
๕๖) นางสาวภานุมาศ นามวัฒน์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๖
๕๗) นางสาวอุไรรัตน์ ทีสร้างแป้น	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๗
๕๘) นายธีรวัลย์ ปวงสุข	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๘
๕๙) นายยิทธิพล ยะโส	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๙
๖๐) นายประพจน์ วรรณภูชัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๐
๖๑) นายชยธร พวงทิพย์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๑
๖๒) นางสาวกนกวรรณ จันทบาล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๒
๖๓) นายสิทธิโชค ธงเงิน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๓
๖๔) นางศิลาวรรณ ใจบุญ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๔
๖๕) นางสาวพรรณอิดา พุ่มคง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๕
๖๖) นายนวภัทร ศรีวิริยะ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๖
๖๗) นายสุวิชา ทองย่อน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๗
๖๘) นายวิญญู บุญคะนัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๘
๖๙) นายสมบูรณ์ บุตรจันทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๙
๗๐) นายวิรัตน์ ไชยนะรา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๐
๗๑) นายนฤเบศน์ เพิ่มพูน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๑
๗๒) นายจิรณัฐ ชาวสะออ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๒
๗๓) นายอัลรี นามบุรี	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๓
๗๔) นายอัศวเมธ จ่อสาว	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๔

๗๕) นายประเสริฐ...

๗๕) นายประเสริฐ สุระขันธ์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๕
๗๖) นายนุกูล จันทร์เนียม ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๖
๗๗) นายพีรพงษ์ ทองคูณบริดา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๗
๗๘) นายนฤพล ทองนุช ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๘
๗๙) นายอนุวัฒน์ ม่วงแพร ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๙
๘๐) นายเจตศราวุฒิ ปัดตะนะ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๐
๘๑) นายกฤษณะ สายวรรณ์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๑
๘๒) นายพิชัย บุญยงค์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๒
๘๓) นายภานุพงศ์ โฮมวงศ์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๓
๘๔) นายสามารถ คุ้มปลี ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๔
๘๕) นายสัญชัย โกศรีนาม ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๕
๘๖) นายณัฐวุฒิ ศรีประเสริฐ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๖
๘๗) นายชวัลชัย นาคพนม ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๗
๘๘) นายพงศธร ชัยทิพย์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๘
๘๙) นายสิทธิโชค หาสีดา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๘๙
๙๐) นายธนากร อินสุดา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๐
๙๑) นางสาววรรณิชชา ชาติวันชัย ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๑
๙๒) นางสาวพิมพ์ตะวัน มินากูล ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๒
๙๓) นางสาวเพชรัตน์ สิงห์สมบุญ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๓
๙๔) นางสาวชญานิน พรหมจันทร์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๔
๙๕) นายกีรติ ทวีราช ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๕
๙๖) นายจักริน หมั่นวิชา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๖
๙๗) นายณัครชัย สุขเปีย ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๗
๙๘) นายณรนนท์ ต๊ะทองคำ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๘
๙๙) นายศุลยพล สนนอก ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๙๙
๑๐๐) นายทักษ์ดนัย อุบลศรี ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๐
๑๐๑) นายธนศรว นามะกุณณา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๑
๑๐๒) นายธิติพงศ์ บัวแดง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๒
๑๐๓) นายนนทชัย อุปถัมภ์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๓
๑๐๔) นายนัฐพล คุณสุทธิ์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๔
๑๐๕) นายนันทวัฒน์ สาริน ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๕
๑๐๖) นายปิยะนัฐ พลมะศรี ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๖
๑๐๗) นายพงศ์สิริ โสมเขียว ทะเบียนเลขที่ ว ๒๐๔ จ ๐๑๐๗
๑๐๘) นายพีรพัฒน์ กำคำ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๘
๑๐๙) นายภาคุพงศ์ มานิตย์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๙
๑๑๐) นายมงคล ผลาทิพย์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๐
๑๑๑) นายสิรินนท์ ทองอั่น ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๑
๑๑๒) นายอเนชา ทันสมัย ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๒
๑๑๓) นายอดิศักดิ์ ผมไผ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๓

๑๑๔) นายอนันตชัย...

๑๑๔) นายอนันตชัย วีสม ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๔
๑๑๕) นายวรวุธ ดีนัก ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๕
๑๑๖) นายแสงตะวัน นะตะสัด ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๖
๑๑๗) นายยุทธพงศ์ รัตนะ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๗
๑๑๘) นายชยัฌรุฒิ ไชยอนิจ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๘
๑๑๙) นายวีศรุต ศรีวรรมมา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๙
๑๒๐) นายนนทกร เมืองก่อง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๐
๑๒๑) นายกำชัย สุทธะ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๑
๑๒๒) นางสาวณัฐกรณ์ บุญตะนัย ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๒
๑๒๓) นางสาวพัชรินทร์ แสนสร้อย ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๓
๑๒๔) นายไพรวัลย์ เปรี่ยมพินาย ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๔
๑๒๕) นางสาวศุภมาศ ทองมาก ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๕
๑๒๖) นางสาวลลิตา จิตรสว่าง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๖
๑๒๗) นางสาวขไมพร เสิกภู่เขียว ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๗
๑๒๘) นางสาวกฤติมาพร คำมีแก่น ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๘
๑๒๙) นางสาวสกุลรัตน์ ภาคภูมิ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๙
๑๓๐) นางสาวไพรินทร์ ศรีรูปิ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๐
๑๓๑) นางสาวทิพเนตร ผุยบัญญา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๑
๑๓๒) นางสาวสาธิตา ปานทอง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๒
๑๓๓) นางสาวอริสา ทองนวล ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๓
๑๓๔) นางสาวอรยา คำคล่อง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๔
๑๓๕) นางสาวขุดาภรณ์ สุนทรสนาน ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๕
๑๓๖) นางสาวอัญชลี คำจันทร์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๖
๑๓๗) นายบุญฤทธิ์ เมี่ยมแหล ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๗
๑๓๘) นางสาวศุภรดา ปิ่นมุธรา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๘
๑๓๙) นางสาวพาวุลี คุณนาน ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๙
๑๔๐) นางสาวจิราแขก พ่ยมหา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๐
๑๔๑) นางสาวอารยา มีชัย ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๑
๑๔๒) นางสาววิชุดา นาคผจญ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๒
๑๔๓) นางสาวนันทิยา จันทะอุน ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๓
๑๔๔) นายกิตติพงศ์ แซ่ลี้ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๔
๑๔๕) นายอนุวัติ ภูถวิล ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๕
๑๔๖) นายธีรพล แสงทอง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๖
๑๔๗) นายศักดิ์พิพัฒน์ บุญมั่น ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๗
๑๔๘) นายฐิติวัลค์ เอมอุไร ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๘
๑๔๙) นายชัยณรงค์ ศรีบุรินทร์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๙
๑๕๐) นางสาวอัจฉราวรรณ สวนสนอง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๐
๑๕๑) นางสาวณัฐฐาพร สิงหา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๑
๑๕๒) นายภีมเรศ แทยมโต ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๒

๑๕๓) นางสาวอุบล...

๑๕๓) นางสาวอุบล เคิกศิริ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๓
๑๕๔) นางสาวมโนรัตน์ ทองบุตร ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๔
๑๕๕) นายภาคภูมิ แพนไทย ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๕
๑๕๖) นางสาวสุภาณัฐ เมล์พ่วง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๖
๑๕๗) นางสาวพรทิวา สาตาชนม์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๗
๑๕๘) นายเอกวิทย์ วันทะนา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๘
๑๕๙) นายโครมณพล ทิพย์วรรณ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๙
๑๖๐) นายจิรนนธ ประเสริฐสิริพงศ์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๐
๑๖๑) นายจิราชุส เกษมสุข ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๑
๑๖๒) นายจีรศักดิ์ ศรีวิชัย ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๒
๑๖๓) นายณัฐกฤษณ์ สะพานแก้ว ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๓
๑๖๔) นายบูรณศักดิ์ ปะทิ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๔
๑๖๕) นายปิณณวิชญ์ เสมอทรัพย์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๕
๑๖๖) นายพิษณุพงษ์ ไชยา ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๖
๑๖๗) นายภัทรพงษ์ มณฑาทอง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๗
๑๖๘) นายวสันต์ ตรีนกุล ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๘
๑๖๙) นายภาณุเดช เพชรอุด ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๙
๑๗๐) นายอนุกูล วิลาแสง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๐
๑๗๑) นายภัทรพงษ์ มีสุข ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๑
๑๗๒) นางสาวนุชรี ลีละทีป ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๒
๑๗๓) นางสาวสุภาวดี ไกศรีนาม ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๓
๑๗๔) นางสาวอรณิช เทียนดำ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๔
๑๗๕) นางสาวพรเพ็ญ ขอบสอน ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๕
๑๗๖) นางสาววันวิสา ขอนพิกุล ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๖
๑๗๗) นางสาวอรวรรณ เถาว์ทอง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๗
๑๗๘) นางสาวอัยย์ลิณ เมธวีวิณณ์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๘
๑๗๙) นางสาวรวิสรา หุ่ยหรวง ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๙
๑๘๐) นายวุฒิกร ศิริวรรณ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๐
๑๘๑) นางสาวชาวุวรรณ กระจ่างพันธุ์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๑

สิ่งที่ส่งมาด้วย ๓

เอกสารแนบท้ายหนังสืออนุญาตขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอนอตเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔
ที่ ยก ๐๑๑๐(๑)/ ๑๖๑๖๘ ลงวันที่ ๒๐ พฤศจิกายน ๒๕๖๖

ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๑๗๙ รายการ

น้ำเสีย จำนวน 60 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldicarb	High-Performance Liquid Chromatographic Method[4]
2	Aldicarb Sulfone	High-Performance Liquid Chromatographic Method[4]
3	Aldicarb Sulfoxide	High-Performance Liquid Chromatographic Method[4]
4	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
5	Arsenic	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
6	Barium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
7	α-BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
8	β-BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
9	δ-BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
10	γ-BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
11	Biochemical Oxygen Demand	1) 5-Day BOD Test, Azide Modification Method[4] 2) 5-Day BOD Test, Membrane Electrode Method[4]
12	Carbaryl	High-Performance Liquid Chromatographic Method[4]
13	Carbofuran	High-Performance Liquid Chromatographic Method[4]
14	Cadmium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
15	Chemical Oxygen Demand	1) Closed Reflux, Colorimetric Method[4] 2) Closed Reflux, Titrimetric Method[4]
16	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
17	Chromium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
18	Color	ADMI Weighted-Ordinate Spectrophotometric Method[4]

19 Copper...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
19	Copper	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
20	Cyanide	Distillation, Colorimetric Method[4]
21	2,4´-DDD	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
22	4,4´-DDD	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
23	2,4´-DDE	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
24	4,4´-DDE	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
25	2,4´-DDT	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
26	4,4´-DDT	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
27	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
28	Endosulfan Sulfate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
29	Endosulfan I	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
30	Endosulfan II	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
31	Endrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
32	Endrin Aldehyde	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
33	Formaldehyde	Distillation, Colorimetric Method[3]
34	Free Chlorine	1) DPD Ferrous Titrimetric Method[4] 2) DPD Colorimetric Method[6]
35	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
36	Heptachlor Epoxide	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
37	Hexavalent Chromium	Colorimetric Method[4]
38	3-Hydroxycarbofuran	High-Performance Liquid Chromatographic Method[6]
39	Lead	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]

40 Manganese...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
40	Manganese	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
41	Mercury	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass spectrometric Method[6]
42	Methiocarb	High-Performance Liquid Chromatographic Method[6]
43	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
44	Methomyl	High-Performance Liquid Chromatographic Method[6]
45	Nickel	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
46	Oil & Grease	1) Liquid-Liquid, Partition-Gravimetric Method[4] 2) Soxhlet Extraction Method[4]
47	Oxamyl	High-Performance Liquid Chromatographic Method[6]
48	Propoxur	High-Performance Liquid Chromatographic Method[6]
49	pH	Electrometric Method[4]
50	Phenols	1) Distillation, Chloroform Extraction Method[6] 2) Distillation, Direct Photometric Method[4]
51	Selenium	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
52	Sulfide	Iodometric Method[6]
53	Temperature	Laboratory and Field Methods[6]
54	Total Dissolved Solids	Dried at 180 °C[6]
55	Total Kjeldahl Nitrogen	Semi-Micro Kjeldahl Method[6]
56	Total Phosphorous	Digestion, Colorimetric Method[6]
57	Total Suspended Solids	Dried from 103-105 °C[6]
58	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
59	Trivalent Chromium	1) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Colorimetric Method; Calculation[6]
60	Zinc	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[6]

น้ำใต้ดิน...

น้ำใต้ดิน จำนวน 126 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
2	Acetone	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
3	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
4	Anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
5	Antimony	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
6	Arsenic	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
8	Barium	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
9	Benz(a)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
10	Benzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
11	Benzo(b)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
12	Benzo(k)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
13	Benzoic Acid	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
14	Benzo(a)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
15	Benzo(g,h,i)perylene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
16	Beryllium	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]

18 Bis(2-ethylhexyl)phthalate...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
20	Bromoform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
21	Butanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
23	Cadmium	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
24	Carbaryle	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
27	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
31	Chloroform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[6]
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[6]
33	Chromium	1) Digestion, Inductively Coupled Plasma Method[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[6]
34	Chromium (III)	1) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation[6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Colorimetric Method; Calculation[6]
35	Chromium (VI)	Colorimetric Method[6]

36 Chrysene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
36	Chrysene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
37	Cyanide	Distillation, Colorimetric Method[8]
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
39	DDD	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
40	DDE	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
41	DDT	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
42	Dibenz(a,h)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
43	Di-n-Butyl Phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
47	3,3-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]

56 1,3-Dichloropropene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
57	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
58	Diethyl Phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
63	Di-n-octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
64	Endosulfan	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
65	Endrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
66	Ethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
67	Fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
68	Fluorene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
69	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
70	Heptachlor epoxide	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
73	n-Hexane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
74	α-HCH	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
75	β-HCH	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]

76 γ-HCH...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
76	γ-HCH	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
79	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
81	Lead	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
82	Manganese	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
83	Mercury	1) Digestion, Cold Vapor Atomic Absorption Spectrometric Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
84	Methanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
86	Methyl bromide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
87	Methylene chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
89	2-Methylnapthalene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
90	Methyl tert-butyl Ether	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
91	Naphthalene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
92	Nickel	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]

94 N-Nitrosodiphenylamine...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
95	N-Nitrosodi-n-Propylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
96	Polychlorinated Biphenyls - PCB 1016 - PCB 1221 - PCB 1232 - PCB 1242 - PCB 1248 - PCB 1254 - PCB 1260	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
98	pH	Electrometric Method[7]
99	Phenanthrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
100	Phenol	1) Distillation, Chloroform Extraction Method[8] 2) Distillation, Direct Photometric Method[8] 3) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[8]
101	Pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
102	Selenium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[5]
103	Silver	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
104	Styrene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
105	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
106	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
107	Toluene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
108	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
109	TPH (C_5-C_9)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[14,25]

110 TPH (C_{10}-C_{16})...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
110	TPH (C_{08}-C_{16})	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[9,22]
111	TPH ($C_{>16}$-C_{36})	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[9,22]
112	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
113	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
114	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
115	Trichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
118	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
119	Vanadium	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]
120	Vinyl acetate	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
121	Vinyl chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
122	m-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
123	o-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
124	p-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
125	Xylene (Total)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[4]
126	Zinc	1) Digestion, Inductively Coupled Plasma Method[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4]

อากาศเสีย...

อากาศเสีย (ปล่องระบาย) จำนวน 28 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
2	Arsenic	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
3	Beryllium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
4	Cadmium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
5	Carbon Monoxide	1) Instrumental Analyzer Method[5] 2) Sampling Bag Non-Dispersive Infrared Method[5]
6	Chlorine	1) Absorption Sampling, Ion Chromatographic Method[5] 2) Isokinetic Sampling, Ion Chromatographic Method [5]
7	Chromium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
8	Cobalt	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
9	Copper	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
10	Cresol	Adsorption Sampling, Gas Chromatographic Method[5]
11	Dioxins	Isokinetic Sampling[5]
12	Hydrogen Chloride	1) Absorption Sampling, Ion Chromatographic Method[5] 2) Isokinetic Sampling, Ion Chromatographic Method[5]
13	Hydrogen Fluoride	1) Absorption Sampling, Ion Chromatographic Method[5] 2) Isokinetic Sampling, Ion Chromatographic Method[5]
14	Hydrogen Sulfide	Absorption Sampling, Iodometric Method[5]

15 Lead...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
15	Lead	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
16	Manganese	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
17	Mercury	1) Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[5] 2) Isokinetic Sampling, Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method[5]
18	Nickel	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
19	Opacity	Ringelmann's Method[22]
20	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic Acid Method[5] 2) Absorption Sampling, Alkaline Permanganate/ Colorimetric Method[5] 3) Instrumental Analyzer Method[5]
21	Selenium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
22	Sulfur Dioxide	1) Absorption Sampling, Barium-Thorin Titrimetric Method[5] 2) Instrumental Analyzer Method[5]
23	Sulfuric Acid	Isokinetic Sampling, Barium-Thorin Titrimetric Method[5]
24	Tellurium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
25	Tin	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
26	Total Suspended Particulate	1) Isokinetic Sampling, Gravimetric Method[5] 2) Paired Train, Isokinetic Sampling, Gravimetric Method[5]

27 Vanadium...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
27	Vanadium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[5]
28	Xylene	Adsorption Sampling, Gas Chromatographic Method[5]

สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว จำนวน 35 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,20] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
2	Antimony	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,8,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,8,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
3	Arsenic	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,8,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,8,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,8,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,8,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]

5 Beryllium...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
6	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
8	Chromium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
9	Chromium (III)	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation Method[1,6,16,18] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation Method[1,6,17,19] 3) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method[7,8,16,18] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method[7,8, 17,19]

10 Chromium (VI)...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
10	Chromium (VI)	1) Waste Extraction, Colorimetric Method[1,6,19] 2) Alkaline Digestion, Colorimetric Method[8,19]
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
12	Copper	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
14	DDD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26]

2) Soxhlet...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
		2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
20	Lead	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]

22 Mercury...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[1,8,20] 2) Waste Extraction, Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method[1,6,30] 3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[28] 4) Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method[30] 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method[21]
23	Methoxychlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic / Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic /Mass Spectrometric Method[11,26]
24	Mirex	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic / Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic /Mass Spectrometric Method[11,26]
25	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
26	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,6,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
27	Polychlorinated biphenyls (PCBs) - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic Method[11,26]

- 2-Chlorobiphenyl...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
	- 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',5-Trichlorobiphenyl - 2,4',5-Trichlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4',6-Pentachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,5,5'-Hexachlorobiphenyl - 2,2',3,5,5',6-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,4',5-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5',6-Heptachlorobiphenyl - 2,2',3,4',5,5',6-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	
28	Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
29	pH	Electrometric Method[23,26]
30	Selenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,8,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,8,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]

31 Silver...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
31	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,8,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,8,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
32	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,8,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,8,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
33	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,8,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,8,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
35	Zinc	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,8,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,8,17] 3) Digestion, Inductively Coupled Plasma Method[7,16] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]

ดิน...

ดิน จำนวน 125 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
2	Acetone	1)Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25] 2) Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method[13]
3	Aldrin	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
4	Anthracene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
5	Antimony	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
6	Arsenic	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
7	Atrazine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
8	Barium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
9	Benz(a)anthracene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
10	Benzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]

11 Benzo(b)fluoranthene

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
11	Benzo(b)fluoranthene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
12	Benzo(k)fluoranthene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
13	Benzoic acid	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
14	Benzo(a)pyrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
15	Benzo(g,h,i)perylene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
16	Beryllium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
17	Bis(2-chloroethyl)ether	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
18	Bis(2-ethylhexyl)phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
20	Bromoform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
21	Butanol	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method[13,25]
22	Butyl Benzyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]

23 Cadmium...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
23	Cadmium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
24	Carbazole	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
25	Carbon Disulfide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
27	Chlordane	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
28	p-Chloroaniline	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
31	Chloroform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
32	2-Chlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
33	Chromium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
34	Chromium (III)	1) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method[7,8,16,18] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method[7,8,17,18]
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method[8,18]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
36	Chrysene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
37	Cyanide	Extraction, Distillation, Colorimetric Method[27,28,29]
38	2,4-D	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
39	DDD	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
40	DDE	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
41	DDT	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
42	Dibenz(a,h)anthracene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
43	Di-n-Butyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
47	3,3-Dichlorobenzidine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
53	2,4-Dichlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
57	Dieldrin	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
58	Diethyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
59	2,4-Dimethylphenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
60	2,4-Dinitrophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
61	2,4-Dinitrotoluene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
62	2,6-Dinitrotoluene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
63	Di-n-Octyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
64	Endosulfan	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
65	Endrin	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
66	Ethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
67	Fluoranthene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
68	Fluorene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
69	Heptachlor	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
70	Heptachlor epoxide	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
71	Hexachlorobenzene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
73	n-Hexane	1) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25] 2) Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method[15]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
74	α-HCH	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
75	β-HCH	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
76	γ-HCH	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
77	Hexachlorocyclopentadiene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
78	Hexachloroethane	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
79	Indeno(1,2,3-cd)pyrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
80	Isophorone	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
81	Lead	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
82	Manganese	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
83	Mercury	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[20] 2) Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry[21] 3) Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method[30]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
84	Methanol	1) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25] 2) Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method[13,25]
85	Methoxychlor	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
86	Methyl Bromide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
87	Methylene Chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
88	2-methylphenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
89	2-Methylnaphthalene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
90	Methyl tert-Butyl Ether	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,27]
91	Naphthalene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
92	Nickel	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
93	Nitrobenzene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
94	N-Nitrosodiphenylamine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
95	N-Nitrosodi-n-propylamine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
96	Polychlorinated biphenyls (PCBs) - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4',6-Pentachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,5,5'-Hexachlorobiphenyl - 2,2',3,5,5',6-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,4',5-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5',6-Heptachlorobiphenyl - 2,2',3,4',5,5',6-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
97	Pentachlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
98	Phenanthrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
99	Phenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
100	Pyrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
101	Selenium	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
102	Silver	1) Digestion, Inductively Coupled Plasma Method[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
103	Styrene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
104	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
105	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
106	Toluene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
107	Toxaphene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
108	TPH (C_5–C_8)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
109	TPH ($C_{>8}$– C_{16})	1) Automate Extraction, Gas Chromatographic Method[11,29] 2) Solvent Extraction, Gas Chromatographic Method[12,29] 3) Ultrasonic Extraction, Gas Chromatographic Method[29,31]
110	TPH ($C_{>16}$ – C_{35})	1) Automate Extraction, Gas Chromatographic Method[11,29] 2) Solvent Extraction, Gas Chromatographic Method[12,29] 3) Ultrasonic Extraction, Gas Chromatographic Method[29,31]
111	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
112	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
113	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]
114	Trichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,25]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
115	2,4,5-Trichlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
116	2,4,6-Trichlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,26]
117	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
118	Vanadium	1) Digestion, Inductively Coupled Plasma Method[7,14] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]
119	Vinyl Acetate	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
120	Vinyl Chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
121	m-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
122	o-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
123	p-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
124	Xylene (Total)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[15,25]
125	Zinc	1) Digestion, Inductively Coupled Plasma Method[7,14] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[7,17]

เอกสารอ้างอิง

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ที่ อก ๐๓๑๐(๑)/ ๕ ๑ ๒ ๑

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๕ เมษายน ๒๕๖๗

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์นอกชน ลงวันที่ ๒๙ มีนาคม ๒๕๖๗

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์นอกชน เลขทะเบียน ว-๒๐๐๔ สถานที่ตั้งเลขที่ ๒๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ความละเอียดแจ้งแล้ว นั้น

กระโรงงานอุตสาหกรรมพิจารณาแล้ว มีความเห็นดังนี้

๑. ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๓ ราย

๑) นางสาวพรรณอิดา พุ่มคง	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๐๒๕
๒) นายกำชัย สุทธอ	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๒๑
๓) นางสาวศุภรดา ปิ่นมยุรา	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๓๔

๒. ให้เพิ่มเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์นอกชน จำนวน ๑๕ ราย

๑) นางสาวฐานิดา กลั่นเชียว	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๔๒
๒) นางสาวกัญญ์ภัสสร สายคำ	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๔๓
๓) นางสาวณัฐนันท์ กันทะวงค์	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๔๔
๔) นายอำนาจ วงษาเคน	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๔๕
๕) นายกฤษณพล ปัญญาวงค์	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๔๖
๖) นายณชากร หรรษา	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๔๗
๗) นายวิชรินทร์ ผ่องสามสวน	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๔๘
๘) นายณัฐพงศ์ โสภา	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๔๙
๙) นายศักรินทร์ ปานเพ็ง	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๕๐
๑๐) นายณัฐพล ชุ่มชื่น	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๕๑
๑๑) นายธนา สุพาพันธุ์	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๕๒
๑๒) นายนราธร แก้วพงษ์ษา	ทะเบียนเลขที่ ว-๒๐๐๔-๑-๐๑๕๓

อนึ่ง หน้าเสียดบับนี้...

อนึ่ง หนังสือฉบับนี้จะหมดอายุพร้อมหนังสืออนุญาตฉบับเดิมในวันที่ ๒ กันยายน ๒๕๖๗

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายพรยศ กลั่นกรอง)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๗๒ ต่อ ๒๓๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๗๒ ต่อ ๒๓๗๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

ที่ อก ๐๓๓๐(๓)/๒๖๖๘ กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๑๔ ธันวาคม ๒๕๖๗

เรื่อง ยกเลิกบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒ ธันวาคม ๒๕๖๗

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอยกเลิกบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๘ ราย ได้แก่

๑) นายประพจน์ วรรณชูชัย	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๐๖๐
๒) นายจิรมิฐ ชาวสะออ	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๐๗๒
๓) นายพีรพัฒน์ กำคำ	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๐๔
๔) นางสาวอรยา ค้ำคล่อง	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๓๔
๕) นายกิตติพงศ์ แฟลี้	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๔๔
๖) นายจิรเมธ ประเสริฐสิริพงศ์	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๖๐
๗) นายภัทรพงษ์ มณฑาทอง	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๖๗
๘) นางสาวจารุวรรณ กระจ่างพันธุ์	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๘๑

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายธีรทัศน์ อิศรางกูร ณ อยุธยา)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

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โทรสาร ๐ ๒๔๓๐ ๖๓๗๒ ต่อ ๒๓๗๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

ที่ อก ๐๓๓๐(๓)/๓๑๔๐ กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๑๐ เมษายน ๒๕๖๘

เรื่อง ยกเลิกบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒ เมษายน ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอยกเลิกบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๒ ราย ได้แก่

๑) นายธิติพงศ์ บัวแดง	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๐๒
๒) นายมงคล ผลาทิพย์	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๑๐

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายธีรทัศน์ อิศรางกูร ณ อยุธยา)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
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โทร. ๐ ๒๔๓๐ ๖๓๗๒ ต่อ ๒๓๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๗๒ ต่อ ๒๓๗๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

ที่ อก ๐๓๓๐(๓)/๔๖๗๓ กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๕ มิถุนายน ๒๕๖๘

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๗ พฤษภาคม ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เพิ่มเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๑๑ ราย ได้แก่

๑) นายคุณากร มันชื่น	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๙๔
๒) นายชัยมงคล แสนมาตร	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๙๕
๓) นายเอกวินทร์ บุตสักที	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๙๖
๔) นายพัชชานนท์ อินปริก	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๙๗
๕) นายศตวรรษ แก้วกันหา	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๙๘
๖) นายวิกรม มีศิริ	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๙๙
๗) นายภคนันท์ คำจันทราช	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๒๐๐
๘) นายศิรวิทย์ มีไพฑูรย์	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๒๐๑
๙) นายธีรพงษ์ ศรีคำแหง	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๒๐๒
๑๐) นายอภิสิทธิ์ ศรีคงแก้ว	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๒๐๓
๑๑) ว่าที่ร้อยตรี ภาณุพงศ์ แสนศรี	ทะเบียนเลขที่ ว-๒๐๔-๑-๐๒๐๔

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสืออนุญาตฉบับเดิมในวันที่ ๒ กันยายน ๒๕๖๗

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายศิระ จันทร์ฉิม)
นิติกรชำนาญการพิเศษ รักษาราชการแทน
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๗๒ ต่อ ๒๓๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๗๒ ต่อ ๒๓๗๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

ที่ อก ๐๓๑๐(๑)/ ๖๙๐๔

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๑ สิงหาคม ๒๕๖๔

เรื่อง เปลี่ยนแปลงสารมลพิษที่วิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และขนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒๗ มิถุนายน ๒๕๖๔

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด จำนวน ๖ แผ่น

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงสารมลพิษที่วิเคราะห์ ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เพิ่มขอบข่ายขนิดสารมลพิษที่วิเคราะห์ในน้ำใต้ดิน สิ่งปฏิกูลและวัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒ กันยายน ๒๕๖๙

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นางสาวปัทมวรรณ คุณประเสริฐ)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕
โทรสาร ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๑๐๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔
ที่ อก ๐๓๑๐(๑)/ ๖๙๐๔ ลงวันที่ ๒๑ สิงหาคม ๒๕๖๔

ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๔๐ รายการ

น้ำใต้ดิน จำนวน ๔ รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aluminum	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[2]
2	Copper	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[2]
3	Iron	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[2]
4	Molybdenum	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[2]

สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว จำนวน 17 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
2	Arsenic	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
3	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

Beryllium

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
4	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
5	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
6	Chromium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
7	Chromium (III)	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation Method[1,3,6,8] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation Method[1,3,7,8] 3) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method[4,5,6,8] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method[4,5,7,8]
8	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7]

3) Digestion...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
		3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
9	Copper	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
10	Lead	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
11	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
12	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
13	Selenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

14 Silver...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
14	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
15	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
16	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
17	Zinc	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method[1,3,7] 3) Digestion, Inductively Coupled Plasma Method[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

ดิน จำนวน 19 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aluminium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
2	Antimony	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

3 Arsenic...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
3	Arsenic	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
4	Barium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
5	Beryllium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
6	Cadmium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
7	Chromium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
8	Chromium (III)	1) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method[4,5,6,8] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method[4,5,7,8]
9	Copper	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
10	Iron	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
11	Lead	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
12	Manganese	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
13	Molybdenum	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
14	Nickel	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

15 pH...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
15	pH	Electrometric Method[9]
16	Selenium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
17	Silver	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
18	Vanadium	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]
19	Zinc	1) Digestion, Inductively Coupled Plasma Method[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method[4,7]

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ที่ อก ๐๓๓๐(๓)/๕๐ ๑๑

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๖ กันยายน ๒๕๖๘

เรื่อง เปลี่ยนแปลงบุคลากร ชื่อตัวและชื่อสกุลของบุคลากร

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒๑ สิงหาคม ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ชื่อตัวและชื่อสกุลของบุคลากรต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว มีความเห็นดังนี้

๑. ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๒ ราย

(๑) นางสาวพาฤดี คุณนาน ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๓๙

(๒) นางสาวอรณิช เทียนดำ ทะเบียนเลขที่ ว-๒๐๔-๑-๐๑๓๙

๒. ให้เปลี่ยนชื่อตัวและชื่อสกุลของเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จากเดิม นายอาทิตย์ ศรีแสน เป็น นายรัฐธีร์ ทรัพิจวรพจน์ ทะเบียนเลขที่ ว-๒๐๔-๑-๐๐๔๘

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสืออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒ กันยายน ๒๕๖๙

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นางสาวปิหมวรรณ คุณประเสริฐ)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๗๒ ต่อ ๒๒๐๓-๕
โทรสาร ๐ ๒๔๓๐ ๖๓๗๒ ต่อ ๒๒๐๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th

"อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"

ที่ อก ๐๓๒๐/ ๗ ๙๓ ๘

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ เขตพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๘ สิงหาคม ๒๕๖๗

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒๗ พฤษภาคม ๒๕๖๗

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด จำนวน ๑ แผ่น

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ขอต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๐๒๓ สถานที่ตั้งเลขที่ ๖๒๖/๑๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอบางปะหัน จังหวัดพระนครศรีอยุธยา ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

ก. ผู้ควบคุมห้องปฏิบัติการวิเคราะห์เอกชน

๑) นายเดช ช้างชน	ทะเบียนเลขที่ ว-๐๒๓-ค-๐๐๐๑
๒) นางวิสารัณย์ บริรักษ์	ทะเบียนเลขที่ ว-๐๒๓-ค-๐๐๐๒
๓) นายสุพจน์ สลามเต๊ะ	ทะเบียนเลขที่ ว-๐๒๓-ค-๐๐๐๓

ข. เจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน

๑) นายณัฐพงษ์ เพ็งชารินา	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๐๑
๒) นางสาวกัลยทรงค์ รักดี	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๐๒
๓) นางสาวจุฑารัตน์ ลีทองหลาง	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๐๓
๔) นางสาวจิตสุภา ประเทืองสุข	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๐๔
๕) นายสรรเสริญ คุ้ยยกสุย	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๐๕
๖) นายณัฐวุฒิ ธรรมพรมราช	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๐๖
๗) นายจิตกร สีวะสา	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๐๗
๘) นายสิทธปริญญ์ สุวรรณรัตน์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๐๘
๙) นายสิทธิพันธ์ เสนาชัง	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๐๙
๑๐) นายอนุเวศน์ เสมา	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๑๐
๑๑) นายสุรวิทย์ นราพงษ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๑๑
๑๒) นายณัฐพล เรืองวริวงศ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๑๓
๑๓) นายชานนท์ บุญชื่น	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๑๔
๑๔) นายณัฐกานต์ วงศ์อินทร์อยู่	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๑๕
๑๕) นายชานนท์ โพธิ์พระทอง	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๑๖

๑๖) นายณัฐพล...

๑๖) นายณัฐพล ต้ำกลาง	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๑๗
๑๗) นายศุภณัฐ พิลัยพันธ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๑๘
๑๘) นายวสันต์ คีนันติ	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๑๙
๑๙) นายวรัญญู ฉิมพาลี	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๐
๒๐) นายศุภณัฐ สกุลกิตติมศักดิ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๑
๒๑) นายเอกชัย อันทอง	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๒
๒๒) นายพงษ์เทพ สิทธิเสาะ	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๓
๒๓) นายพินกร กุมภาษี	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๔
๒๔) นางสาวนันทิยา เบญจชันธ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๕
๒๕) นายสิทธิชัย อันพิมาย	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๖
๒๖) นางสาวปภาณิน หลอดทอง	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๗
๒๗) นางสาวพจนา สีดา	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๘
๒๘) นางสาวรนิดา กุลศิริวงศ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๒๙
๒๙) นายพิทยา หองแคง	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๐
๓๐) นางสาวธนิชา สุนงกช	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๑
๓๑) ว่าที่ร้อยตรี รณชัย ม่วงมา	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๒
๓๒) นายวรวรุฒิ พับพา	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๓
๓๓) นายศักดิ์นรินทร์ จรัสกาย	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๔
๓๔) นายสุรศักดิ์ สาชิน	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๕
๓๕) นางสาวพร ถาแก้ว	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๖
๓๖) นายสุทธิ์ดำรง โชคบิดินันท์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๗
๓๗) นายวัลลภ หันไชยเนาว์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๘
๓๘) นางสาววนาลี เหรียญตระกูล	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๓๙
๓๙) นายธนะสิทธิ์ วงศ์ษาไชย	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๐
๔๐) นายชัยนุสรณ์ เลิศนันทกุลชัย	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๑
๔๑) นายสังขา เพ็ชรแสวง	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๒
๔๒) นายกัณฑภณ มณีสัมพันธ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๓
๔๓) นายธารินทร์ อ๊อกจันดา	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๔
๔๔) นายศุภเชิญ วงศ์สุริย์ฉาย	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๕
๔๕) นายไสว ต้นโพธิ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๖
๔๖) นางสาวกิตติยา สัญญาอริยาภรณ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๗
๔๗) นางสาวอิศรารัตน์ ศิริมัคคะโร	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๘
๔๘) นายพิพัฒน์ นิภิทร์เศรษฐ์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๔๙
๔๙) นายศิริวิทย์ เรืองสม	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๐
๕๐) นายปารเมศ สัตยาคุณ	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๑
๕๑) นายนฤนาท ธรรมสะโร	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๒
๕๒) นางสาวศุภรัตน์ ไสจันทร์	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๓

๕๒) นายพชรกร...

๕๒) นายพชรกร เจ็งเจริญ	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๔
๕๓) นายทิวากร เชื้อมาก	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๕
๕๔) นายอนุรักษ์ ทองจรศักดา	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๖
๕๕) นายอภิชาติ วิลาศ	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๗
๕๖) นายจิรสะวรี ศรีรักษา	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๘
๕๗) นายประสานมิตร เชื่อนเพชร	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๕๙
๕๘) นายภานุวัฒน์ วังบง	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๖๐
๖๐) นายสันติ ชัยชนะ	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๖๑
๖๑) นายทินกร กุลชาติ	ทะเบียนเลขที่ ว-๐๒๓-จ-๐๐๖๒

ค. ขอบข่ายชนิดสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย น้ำใต้ดิน อากาศเสีย ตามสิ่งที่ส่งมาด้วย

หนังสือฉบับนี้จะหมดอายุในวันที่ ๒๘ มิถุนายน ๒๕๗๑ หากประสงค์จะต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อกรมโรงงานอุตสาหกรรมภายใน ๖๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายพรเทพ กลันกรอง)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเฝ้าระวังมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๗ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๐๒๓
ที่ อก ๐๓๒๐/ ๗ ๙๓ ๘ ลงวันที่ ๐๘ สิงหาคม ๒๕๖๗

ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๒๕ รายการ

น้ำเสีย จำนวน 14 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Biochemical Oxygen Demand	1) 5-Day BOD Test, Membrane Electrode Method[2] 2) 5-Day BOD Test, Azide Modification Method[2]
2	Chemical Oxygen Demand	1) Open Reflux, Titrimetric Method[2] 2) Closed Reflux, Colorimetric Method[2] 3) Closed Reflux, Titrimetric Method[2]
3	Color	ADMI Weighted-Ordinate Spectrophotometric Method[2]
4	Cyanide	Distillation, Colorimetric Method[2]
5	Formaldehyde	Distillation, Colorimetric Method[1]
6	Free Chlorine	DPD Ferrous Titrimetric Method[2]
7	Oil and Grease	Liquid-Liquid, Partition-Gravimetric Method[2]
8	pH	Electrometric Method[2]
9	Phenols	1) Distillation, Chloroform Extraction Method[2] 2) Distillation, Direct Photometric Method[2]
10	Sulfide	ZnS Precipitation, Iodometric Method[2]
11	Temperature	Field Method[2]
12	Total Dissolved Solids	Dried at 180 °C [2]
13	Total Kjeldahl Nitrogen	Semi-Macro Kjeldahl Method[2]
14	Total Suspended Solids	Dried at 103-105 °C[2]

น้ำใต้ดิน จำนวน 3 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Cyanide	Distillation, Colorimetric Method[2]
2	pH	Electrometric Method[2]
3	Phenols	Distillation, Direct Photometric Method[2]

อากาศเสีย...

อากาศเสีย (ปล่องระบาย) จำนวน 7 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Carbon Monoxide	1) Sampling Bag, Non-Dispersive Infrared Method[5] 2) Instrumental Analyzer Method[9]
2	Hydrogen Sulfide	Absorption Sampling, Iodometric Method[3]
3	Opacity	Ringelmanns Method[3,4]
4	Oxide of Nitrogen	1) Absorption Sampling, Phenoldisulfonic Acid Method[8] 2) Instrumental Analyzer Method[10]
5	Sulfur Dioxide	1) Absorption Sampling, Barium-Thorin Titrimetric Acid Method[5] 2) Instrumental Analyzer Method[11]
6	Sulfuric Acid	Isokinetic Sampling, Barium – Titrimetric Method[6]
7	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method[7]

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ที่ อก ๐๗๑๐/ ๑๐๐๙๙

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๔ ตุลาคม ๒๕๖๗

เรื่อง แก้ไขรายชื่อเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง หนังสือ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขที่ Env 2024/005 ลงวันที่ ๓๐ สิงหาคม ๒๕๖๗

ตามหนังสือที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๑๒๓ สถานที่ตั้งเลขที่ ๒๑๒/๓๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ขอแก้ไขชื่อเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน เนื่องจากมีความคลาดเคลื่อน ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรม ได้รับทราบและดำเนินการแก้ไขรายชื่อเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๕ ราย ตามที่แจ้งเรียบร้อยแล้ว เป็นดังนี้

ลำดับที่ ๒๗ นางพจนา สีดา
ลำดับที่ ๒๘ นางสาวรนิดา กุลสุริวงศ์
ลำดับที่ ๓๐ นางชลธิชา สุบงกช
ลำดับที่ ๓๖ นายสุทธิ์ดำรงค์ โชคปิตินันท์
ลำดับที่ ๔๒ นายกันตภณ มณีสัมพันธ์

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายพรชล กล่อมกรอง)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

ที่ อก ๐๗๑๐(๓)/ ๕๒๕๖

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๐ พฤษภาคม ๒๕๖๔

เรื่อง ยกเลิกบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และขนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๑๐ เมษายน ๒๕๖๔

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๑๒๓ สถานที่ตั้งเลขที่ ๒๑๖/๓๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ขอยกเลิกบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๑ ราย ได้แก่ นายปาราเมศ สัตยาคุณ ทะเบียนเลขที่ ว-๑๒๓-๑-๐๐๕๓

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายประสม คำรงพงษ์)
ผู้อำนวยการกองวิจัยและเตือนโรงงานมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

ที่ อก ๐๓๑๐(๓)/ ๕๔๐๙

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๗ พฤษภาคม ๒๕๖๘

เรื่อง เปลี่ยนแปลงชื่อ-สกุลบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๑๕ พฤษภาคม ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๑๒๓ สถานที่ตั้งเลขที่ ๖๑๖/๑๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ขอเปลี่ยนแปลงชื่อ-สกุลบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เปลี่ยนแปลงชื่อ-สกุลบุคลากร จำนวน ๑ ราย จากนายชนะสิทธิ์ วงศ์ษาไชย เป็น นายอมลวิชญ์ วงศ์ษาไชย

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายประสม ดำรงพงษ์)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

"อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"

ที่ อก ๐๓๑๐(๓)/ ๙๗๖๕

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๒ ธันวาคม ๒๕๖๘

เรื่อง เปลี่ยนแปลงสารมลพิษที่วิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๓๑ ตุลาคม ๒๕๖๘

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด จำนวน ๒ แผ่น

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๑๒๓ สถานที่ตั้งเลขที่ ๖๑๖/๑๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอปลวกแดง จังหวัดระยอง ขอเปลี่ยนแปลงสารมลพิษที่วิเคราะห์ ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เพิ่มขอบข่ายชนิดสารมลพิษที่วิเคราะห์ในน้ำเสีย และน้ำใต้ดิน ตามสิ่งที่ส่งมาด้วย

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒๘ มิถุนายน ๒๕๗๓

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นางสาวปัทมวรรณ คุณประเสริฐ)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

"อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"

เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์
บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๑๒๓
ที่ อก ๐๓๑๐(๓)/ ๙๗๖๕ ลงวันที่ ๐๒ ธันวาคม ๒๕๖๘

ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๒๓ รายการ

น้ำเสีย จำนวน 13 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Arsenic	Digestion, Inductively Coupled Plasma Method
2	Barium	Digestion, Inductively Coupled Plasma Method
3	Cadmium	Digestion, Inductively Coupled Plasma Method
4	Chromium	Digestion, Inductively Coupled Plasma Method
5	Copper	Digestion, Inductively Coupled Plasma Method
6	Hexavalent Chromium	Colorimetric Method
7	Lead	Digestion, Inductively Coupled Plasma Method
8	Manganese	Digestion, Inductively Coupled Plasma Method
9	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method
10	Nickel	Digestion, Inductively Coupled Plasma Method
11	Selenium	Digestion, Inductively Coupled Plasma Method
12	Trivalent Chromium	Calculation
13	Zinc	Digestion, Inductively Coupled Plasma Method

น้ำใต้ดิน จำนวน 20 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aluminum	Digestion, Inductively Coupled Plasma Method
2	Antimony	Digestion, Inductively Coupled Plasma Method
3	Arsenic	Digestion, Inductively Coupled Plasma Method
4	Barium	Digestion, Inductively Coupled Plasma Method
5	Beryllium	Digestion, Inductively Coupled Plasma Method
6	Cadmium	Digestion, Inductively Coupled Plasma Method
7	Chromium	Digestion, Inductively Coupled Plasma Method
8	Chromium (III)	Calculation
9	Chromium (VI)	Colorimetric Method
10	Copper	Digestion, Inductively Coupled Plasma Method

11 Lead ...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
11	Iron	Digestion, Inductively Coupled Plasma Method
12	Lead	Digestion, Inductively Coupled Plasma Method
13	Manganese	Digestion, Inductively Coupled Plasma Method
14	Mercury	Digestion Cold-Vapor Atomic Absorption Spectrometric Method
15	Molybdenum	Digestion, Inductively Coupled Plasma Method
16	Nickel	Digestion, Inductively Coupled Plasma Method
17	Selenium	Digestion, Inductively Coupled Plasma Method
18	Silver	Digestion, Inductively Coupled Plasma Method
19	Vanadium	Digestion, Inductively Coupled Plasma Method
20	Zinc	Digestion, Inductively Coupled Plasma Method

เอกสารอ้างอิง

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ที่ อก ๐๓๑๐(๓)/ ๑๗๗๘

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๖ มีนาคม ๒๕๖๙

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และขนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๖ กุมภาพันธ์ ๒๕๖๙

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๓๒๓ สถานที่ตั้งเลขที่ ๖๑๖/๓๐ หมู่ที่ ๕ ตำบลแม่น้ำคู้ อำเภอบ่อวิน จังหวัดระยอง ขอเปลี่ยนแปลงบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เพิ่มเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๗ ราย ได้แก่

๑) นายอนวัช คงปลิก	ทะเบียนเลขที่ ว-๓๒๓-๑-๐๐๖๓
๒) นายธนาธิป อิติวุตตา	ทะเบียนเลขที่ ว-๓๒๓-๑-๐๐๖๔
๓) นายเฉลิมชัย บุญชุบ	ทะเบียนเลขที่ ว-๓๒๓-๑-๐๐๖๕
๔) นางสาววิจิตรา งามเลิศม	ทะเบียนเลขที่ ว-๓๒๓-๑-๐๐๖๖
๕) นางสาวลลิตา คำสมัย	ทะเบียนเลขที่ ว-๓๒๓-๑-๐๐๖๗
๖) นางสาวปทิตตา ชูตินันท์	ทะเบียนเลขที่ ว-๓๒๓-๑-๐๐๖๘
๗) นายปฏิญญา ป่านทองทา	ทะเบียนเลขที่ ว-๓๒๓-๑-๐๐๖๙

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ในวันที่ ๒๘ มิถุนายน ๒๕๗๑

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายศิระ จันทร์เอิด)
นักวิทยาศาสตร์เชี่ยวชาญ รักษาราชการแทน
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
โทร. ๐ ๓๓๓๓ ๖๐๕๙ ต่อ ๕๐๐๓-๒
ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th

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bangkok@alsglobal.com

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