

ภาคผนวก ค

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม

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รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม

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- ภาคผนวก ค2 รายงานสรุปผลการติดตามตรวจสอบประสิทธิภาพ
ของระบบตรวจวัดคุณภาพอากาศจากปล่องระบาย
แบบต่อเนื่อง
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(TWA)
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บริเวณปฏิบัติงาน (WBGT)

ภาคผนวก ค1

รายงานผลการติดตามตรวจสอบคุณภาพอากาศจากปล่อง

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JANUARY 20, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JANUARY 20-24, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JANUARY 30, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U007799
SAMPLE TYPE	: STACK	WORK NO.	: 2024-012255
SAMPLING DATE	: JANUARY 16, 2025	ANALYSIS NO.	: T25AB100-0001
SAMPLING TIME	: 10:00-10:48 HOUR		
SAMPLING BY	: MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049		
ANALYZED BY	: MISS SUWAN KONGTHONG ว-145-ค-0025		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			BOILER 200 TON (NORMAL OPERATION) T25AB100-0001	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	13.7	34.0
SAMPLE CONDITION			COMPLETE	

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
ว-145-ค-0011



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
MEASURING TYPE : STACK
MEASURING DATE : JANUARY 16, 2025
MEASURING TIME : 10:10-10:20 HOUR
MEASURING METHOD : U.S. EPA METHOD 6C, 7E
MEASURED BY : MR RONNAPOB PUTRAGULPATTANA ๖-145-๓-0049

RECEIVED DATE : JANUARY 16, 2025
ANALYTICAL DATE : JANUARY 16, 2025
ISSUE DATE : MARCH 31, 2025
REPORT NO. : 2025-U007800
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB100-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			BOILER 200 TON (NORMAL OPERATION) T25AB100-0001	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 6C, JULY 2021	3	7
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	63	156
SAMPLE CONDITION			COMPLETE	

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Nattawat.
 (MR NATTAWAT DANGSAWAT)
 LABORATORY SUPERVISOR
 ๖-145-๓-0021



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
MEASURING TYPE : STACK
MEASURING DATE : JANUARY 16, 2025
MEASURING TIME : 10:15-10:30 HOUR
MEASURING METHOD : RINGELMANN'S METHOD
MEASURED BY : MR RONNAPOB PUTRAGULPATTANA ๓-145-๓-0049
MR PONGTHEP LAOKAJORN ๓-145-๓-0025

RECEIVED DATE : JANUARY 16, 2025
ANALYTICAL DATE : JANUARY 16, 2025
ISSUE DATE : JANUARY 30, 2025
REPORT NO. : 2025-U007801
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB100-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			BOILER 200 TON (NORMAL OPERATION) T25AB100-0001
OPACITY	%	RINGELMANN 'S METHOD	5

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR
๓-145-๓-0021



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JANUARY 16, 2025
SAMPLING TIME : 13:00-13:48 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ๖-145-๖-0049
ANALYZED BY : MISS SUWAN KONGTHONG ๖-145-๓-0025

RECEIVED DATE : JANUARY 20, 2025
ANALYTICAL DATE : JANUARY 20-24, 2025
ISSUE DATE : JANUARY 30, 2025
REPORT NO. : 2025-U007802
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB100-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			BOILER 200 TON (SOOT BLOW) T25AB100-0002	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	14.6	48.8
SAMPLE CONDITION			COMPLETE	

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
๖-145-๓-0011



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
MEASURING TYPE : STACK
MEASURING DATE : JANUARY 16, 2025
MEASURING TIME : 13:10-13:20 HOUR
MEASURING METHOD : U.S. EPA METHOD 6C, 7E
MEASURED BY : MR RONNAPOB PUTRAGULPATTANA จ-145-จ-0049

RECEIVED DATE : JANUARY 16, 2025
ANALYTICAL DATE : JANUARY 16, 2025
ISSUE DATE : JANUARY 30, 2025
REPORT NO. : 2025-U007803
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB100-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			BOILER 200 TON (SOOT BLOW) T25AB100-0002	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 6C, JULY 2021	2	7
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	66	221
SAMPLE CONDITION			COMPLETE	

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR
จ-145-จ-0021



ภาคผนวก ค2

รายงานสรุปผลการติดตามตรวจสอบประสิทธิภาพ
ของระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง

รายงาน

สรุปผลการติดตามตรวจสอบประสิทธิภาพระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง

ปล่องหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง

โครงการโรงไฟฟ้าชีวมวล ขนาดไม่เกิน 30 เมกะวัตต์ (ระยะดำเนินการ)

บริษัท ไทยรุ่งเรือง ไปโอ-เอ็นเนอร์จี้ จำกัด

ระหว่างเดือนมกราคม-มิถุนายน พ.ศ. 2568

เสนอ

บริษัท ไทยรุ่งเรือง ไปโอ-เอ็นเนอร์จี้ จำกัด

เลขที่ 101 หมู่ที่ 12 ตำบลทัพหลวง อำเภอบ้านไร่ จังหวัดอุทัยธานี 61140

ดำเนินการโดย



บริษัท ยูไนเต็ด แอนนาลิสต์ แอนด์ เอ็นจิเนียริ่ง คอนซัลแตนท์ จำกัด

3 ซอยอุดมสุข 41 ถนน สุขุมวิท แขวงบางจาก เขตพระโขนง กรุงเทพฯ 10260

โทรศัพท์ 0 2763 2828 โทรสาร 0 2763 2800

E-mail address: uae@uaeconsultant.com

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เอกสารแนบ

- ใบรายงานผลการวิเคราะห์คุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง

รายงานผลการติดตามตรวจสอบประสิทธิภาพระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง
ปล่องหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง
โครงการโรงไฟฟ้าชีวมวล ขนาดไม่เกิน 30 เมกะวัตต์ (ระยะดำเนินการ) ของบริษัท ไทยรุ่งเรือง ไปโอ-เอ็นเนอร์จี้ จำกัด
ระหว่างวันที่ 16-18 และ 23 มิถุนายน พ.ศ. 2568

1. บทนำ

โครงการโรงไฟฟ้าชีวมวล ขนาดไม่เกิน 30 เมกะวัตต์ ของบริษัท ไทยรุ่งเรือง ไปโอ-เอ็นเนอร์จี้ จำกัด ตั้งอยู่ที่ตำบลทัพหลวง อำเภอบ้านไร่ จังหวัดอุทัยธานี ได้ว่าจ้างบริษัท ยูไนเต็ด แอนนาลิสต์ แอนด์ เอ็นจิเนียริง คอนซัลแตนท์ จำกัด ให้เป็นผู้ดำเนินการติดตามตรวจสอบประสิทธิภาพของระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่องของปล่องหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง โดยดำเนินการระหว่างวันที่ 16-18 และ 23 มิถุนายน พ.ศ. 2568 รายละเอียดดังนี้

2. แผนการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

แผนการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม แสดงดังตารางที่ 1

ตารางที่ 1 แผนการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

รายการที่ตรวจวิเคราะห์	สถานี	ความถี่	วันที่ติดตามตรวจสอบ
- คุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง (CEMs)			
1. ความทึบแสงหรือฝุ่นละออง	ปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง	อย่างน้อย	ครั้งที่ 1 (16-18 และ 23 มิถุนายน พ.ศ. 2568)
2. ก๊าซซัลเฟอร์ไดออกไซด์ (SO ₂)		ปีละ 2 ครั้ง	
3. ออกไซด์ของไนโตรเจน (NO _x)			
4. ก๊าซคาร์บอนมอนอกไซด์ (CO)			

3. การติดตามตรวจสอบประสิทธิภาพของระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง (Continuous Emission Monitoring; CEMs)

3.1. วิธีการติดตามตรวจสอบประสิทธิภาพของระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง

การตรวจสอบความถูกต้องของการทำงาน CEMs ในการตรวจวัด ประกอบด้วยฝุ่นละออง (Dust), ก๊าซออกไซด์ไนโตรเจน (NO_x), ก๊าซซัลเฟอร์ไดออกไซด์ (SO_2), ก๊าซคาร์บอนมอนนอกไซด์ (CO), ก๊าซออกซิเจนไดออกไซด์ (O_2), อัตราการระบาย (Flow Rate) และอุณหภูมิ (Temperature) ใช้วิธี Relative Accuracy Test Audit (RATA) ซึ่งเป็นไปตามวิธีมาตรฐานของ US EPA, 40 CFR Part 60 Appendix B, Performance specification 2, 3, 4 และ 6 (PS-2, PS-3, PS-4, PS-6) การเก็บตัวอย่างแสดงดังรูปที่ 1



ปล่องระบายของหม้อไอน้ำ 200 ตันต่อชั่วโมง Boiler 200 Tons

รูปที่ 1 การติดตามตรวจสอบประสิทธิภาพของระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง

3.2. ผลการติดตามตรวจสอบประสิทธิภาพของระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง

การติดตามตรวจสอบประสิทธิภาพของระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง ระหว่างเดือนมกราคม-มิถุนายน พ.ศ. 2568 ของบริษัท ไทยรุ่งเรือง ไปโอ-เอ็นเนอร์จี้ จำกัด ได้ดำเนินการติดตามตรวจสอบคุณภาพอากาศจากปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง ระหว่างวันที่ 16-18 และ 23 มิถุนายน พ.ศ. 2568 ดังนี้

- Relative Accuracy Test

1) ซัลเฟอร์ไดออกไซด์ (SO₂)

ค่าความเข้มข้นของ SO ₂ จาก เครื่องวิเคราะห์ด้วยวิธีมาตรฐาน	=	5.31	ppm ที่ 7 % O ₂
ค่าความเข้มข้นของ SO ₂ จาก ระบบ CEMs	=	6.46	ppm ที่ 7 % O ₂
ค่าความแตกต่าง	=	2.50	ppm ที่ 7 % O ₂
Confidence coefficient	=	1.27	
ค่า Relative accuracy (≤10%)	=	6.29	%

2) คาร์บอนมอนอกไซด์ (CO)

ค่าความเข้มข้นของ CO จาก เครื่องวิเคราะห์ด้วยวิธีมาตรฐาน	=	97.92	ppm ที่ 7 % O ₂
ค่าความเข้มข้นของ CO จาก ระบบ CEMs	=	98.60	ppm ที่ 7 % O ₂
ค่าความแตกต่าง	=	6.33	ppm ที่ 7 % O ₂
Confidence coefficient	=	2.64	
ค่า Relative accuracy (≤5%)	=	1.30	%

3) ออกซิเจน (O₂)

ค่าความเข้มข้นของ O ₂ จาก เครื่องวิเคราะห์ด้วยวิธีมาตรฐาน	=	11.34	%
ค่าความเข้มข้นของ O ₂ จาก ระบบ CEMs	=	11.21	%
ค่าความแตกต่าง	=	0.14	%
Confidence coefficient	=	-	
ค่า Relative accuracy (≤1%)	=	0.14	%

4) ฝุ่นละออง (Dust)

ค่าความเข้มข้นของฝุ่นละออง จาก เครื่องวิเคราะห์ด้วยวิธีมาตรฐาน	=	31.57	mg/m ³ ที่ 7 % O ₂
ค่าความเข้มข้นของฝุ่นละออง จาก ระบบ CEMs	=	28.96	mg/m ³ ที่ 7 % O ₂
ค่าความแตกต่าง	=	6.34	mg/m ³ ที่ 7 % O ₂
Confidence coefficient	=	3.45	
ค่า Relative accuracy (≤10%)	=	8.16	%

5) อัตราการระบาย (Flow Rate)

ค่าปริมาณอัตราการระบาย (Flow Rate)	=	324,029	Nm ³ /hr.
จาก เครื่องวิเคราะห์ด้วยวิธีมาตรฐาน			
ค่าปริมาณอัตราการระบาย (Flow Rate) จาก ระบบ CEMs	=	337,009	Nm ³ /hr.
ค่าความแตกต่าง	=	15,829	Nm ³ /hr.
Confidence coefficient	=	5,911	
ค่า Relative accuracy ($\leq 20\%$)	=	6.71	%

6) อุณหภูมิ (Temperature)

ค่าอุณหภูมิ (Temperature) จาก เครื่องวิเคราะห์ด้วยวิธีมาตรฐาน	=	125.78	°C
ค่าอุณหภูมิ (Temperature) จาก ระบบ CEMs	=	118.55	°C
ค่าความแตกต่าง	=	7.23	°C
Confidence coefficient	=	0.3	
ค่า Relative accuracy ($\leq 20\%$)	=	5.95	%

7) ออกไซด์ของไนโตรเจน (NO_x)

ค่าความเข้มข้นของ NO _x จาก เครื่องวิเคราะห์ด้วยวิธีมาตรฐาน	=	171.97	ppm ที่ 7 % O ₂
ค่าความเข้มข้นของ NO _x จาก ระบบ CEMs	=	154.62	ppm ที่ 7 % O ₂
ค่าความแตกต่าง	=	17.35	ppm ที่ 7 % O ₂
Confidence coefficient	=	4.40	
ค่า Relative accuracy ($\leq 20\%$)	=	12.65	%

8) ออกซิเจน (O₂)

ค่าความเข้มข้นของ O ₂ จาก เครื่องวิเคราะห์ด้วยวิธีมาตรฐาน	=	11.90	%
ค่าความเข้มข้นของ O ₂ จาก ระบบ CEMs	=	12.03	%
ค่าความแตกต่าง	=	0.19	%
Confidence coefficient	=	-	
ค่า Relative accuracy ($\leq 1\%$)	=	0.19	%

รายละเอียดผล Relative Accuracy จากปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง ดังตารางที่ 2

ตารางที่ 2 ผล Relative Accuracy จากปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง

ชุดข้อมูลที่	วันที่	เวลา		ซัลเฟอร์ไดออกไซด์ (SO ₂)			คาร์บอนมอนอกไซด์ (CO)		
		เริ่มต้น	สุดท้าย	วิธีมาตรฐาน	CEMs	ความแตกต่าง (di)	วิธีมาตรฐาน	CEMs	ความแตกต่าง (di)
				ppmvd @ 7% O ₂			ppmvd @ 7% O ₂		
1	16/6/2025	16:00	16:20	7.22 ^{3/}	2.34 ^{3/}	4.87 ^{3/}	132.05	123.44	8.60
2	16/6/2025	16:21	16:41	5.42	3.44	1.98	123.39	124.42	1.02
3	16/6/2025	16:42	17:02	5.53	10.17	4.64	87.01 ^{3/}	100.50 ^{3/}	13.49 ^{3/}
4	16/6/2025	17:03	17:23	5.73	5.45	0.27	99.44 ^{3/}	90.02 ^{3/}	9.42 ^{3/}
5	16/6/2025	17:24	17:44	5.56	3.31	2.25	88.23	95.26	7.03
6	16/6/2025	17:45	18:05	5.10	5.49	0.39	93.39	98.40	5.01
7	16/6/2025	18:06	18:26	4.85	7.61	2.76	92.89	84.16	8.73
8	16/6/2025	18:27	18:47	5.09	9.09	4.00	95.71	95.89	0.18
9	16/6/2025	18:48	19:08	5.12	9.74	4.62	95.01	96.33	1.32
10	16/6/2025	19:09	19:29	5.42	3.86	1.56	129.50 ^{3/}	111.34 ^{3/}	18.16 ^{3/}
11	16/6/2025	19:30	19:50	5.88 ^{3/}	1.31 ^{3/}	4.57 ^{3/}	88.15	96.38	8.23
12	16/6/2025	19:51	20:11	5.56 ^{3/}	10.65 ^{3/}	5.08 ^{3/}	91.12	95.45	4.33
Average				5.31	6.46	2.50	97.92	98.60	6.33
Confidence Coefficient				1.27			2.64		
Relative Accuracy Test				6.29			1.30		
Performance Specification; RA Test				≤10% of Std. ^{1/}			≤5% of Std. ^{2/}		

หมายเหตุ: Instrumental RM and CEMs data were on a consistent dry basis and 7% oxygen.

^{1/} 10% of Std. Value (SO₂ 60 ppmvd @ 7% O₂)

^{2/} 5% of Std. Value (CO 690 ppmvd @ 7% O₂)

^{3/} Reject

ตารางที่ 2 (ต่อ) ผล Relative Accuracy จากปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง

ชุดข้อมูล	วันที่	เวลา		ออกซิเจน (O ₂)		
		เริ่มต้น	สุดท้าย	วิธีมาตรฐาน	CEMs	ความแตกต่าง(di)
				% O ₂		
1	16/6/2025	16:00	16:20	12.44	12.42	0.02
2	16/6/2025	16:21	16:41	11.62	11.64	0.01
3	16/6/2025	16:42	17:02	11.09	11.12	0.03
4	16/6/2025	17:03	17:23	11.49 ^{1/}	10.29 ^{1/}	1.21 ^{1/}
5	16/6/2025	17:24	17:44	11.39	11.16	0.23
6	16/6/2025	17:45	18:05	11.12	11.15	0.03
7	16/6/2025	18:06	18:26	11.12 ^{1/}	10.15 ^{1/}	0.97 ^{1/}
8	16/6/2025	18:27	18:47	11.22	11.13	0.08
9	16/6/2025	18:48	19:08	11.31	11.21	0.10
10	16/6/2025	19:09	19:29	11.78 ^{1/}	11.08 ^{1/}	0.69 ^{1/}
11	16/6/2025	19:30	19:50	10.84	10.33	0.51
12	16/6/2025	19:51	20:11	11.00	10.77	0.24
Average				11.34	11.21	0.14
Confidence Coefficient				-		
Relative Accuracy Test				0.14		
Performance Specification; RA Test				≤1% of Value		

หมายเหตุ: Instrumental RM and CEMs data were on a consistent dry basis and 7% oxygen.

^{1/} Reject

ตารางที่ 2 (ต่อ) ผล Relative Accuracy จากปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง

ชุดข้อมูลที่	วันที่	เวลา		ฝุ่นละออง (Dust)		
		เริ่มต้น	สุดท้าย	วิธีมาตรฐาน	CEMs	ความแตกต่าง(di)
				mg/m ³ @ 7% O ₂		
1	16/6/2025	13:30	14:12	35.00	26.48	8.52
2	17/6/2025	09:20	10:02	62.30 ^{2/}	31.11 ^{2/}	31.19 ^{2/}
3	17/6/2025	11:00	11:42	50.50 ^{2/}	28.03 ^{2/}	22.47 ^{2/}
4	17/6/2025	12:00	12:42	29.90	27.27	2.63
5	17/6/2025	12:50	13:32	26.50	30.24	3.74
6	17/6/2025	13:40	14:22	23.10	26.46	3.36
7	17/6/2025	14:35	15:17	28.50	29.51	1.01
8	17/6/2025	15:25	15:07	23.40	32.12	8.72
9	18/6/2025	09:30	10:12	43.50 ^{2/}	27.35 ^{2/}	16.15 ^{2/}
10	18/6/2025	10:20	11:02	43.50	31.17	12.33
11	18/6/2025	11:20	12:02	43.70	30.39	13.31
12	18/6/2025	12:20	13:02	30.50	27.03	3.47
Average				31.57	28.96	6.34
Confidence Coefficient				3.45		
Relative Accuracy Test				8.16		
Performance Specification; RA Test				≤10% of RM ^{1/}		

หมายเหตุ: Instrumental RM and CEMs data were on a consistent dry basis and 7% oxygen.

^{1/} 10% of RM Value (TSP 120 mg/m³ @ 7% O₂)

^{2/} Reject

ตารางที่ 2 (ต่อ) ผล Relative Accuracy จากปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง

ชุดข้อมูลที่	วันที่	เวลา		อัตราการระบาย (Flow rate)		
		เริ่มต้น	สุดท้าย	วิธีมาตรฐาน	CEMs	ความแตกต่าง(di)
				Nm ³ /hr.		
1	16/6/2025	13:30	14:12	308,652 ^{1/}	350,011 ^{1/}	41,359 ^{1/}
2	16/6/2025	14:20	15:02	320,515	336,450	15,935
3	16/6/2025	15:10	15:52	324,935	329,557	4,622
4	17/6/2025	09:20	10:02	326,592	341,103	14,511
5	17/6/2025	10:05	10:47	309,853 ^{1/}	345,837 ^{1/}	35,985 ^{1/}
6	17/6/2025	11:00	11:42	312,182	324,246	12,064
7	17/6/2025	12:50	13:32	305,027 ^{1/}	342,201 ^{1/}	37,174 ^{1/}
8	17/6/2025	13:40	14:22	311,984	343,032	31,048
9	18/6/2025	09:30	10:12	330,097	343,534	13,437
10	18/6/2025	10:20	11:02	332,811	346,128	13,318
11	18/6/2025	11:20	12:02	328,982	316,165	12,816
12	18/6/2025	12:20	13:02	328,161	352,867	24,706
Average				324,029	337,009	15,829
Confidence Coefficient				2.306		
Relative Accuracy Test				5,911		
Performance Specification; RA Test				≤20% of RM		

หมายเหตุ: Instrumental RM and CEMs data were on a consistent dry basis and 7% oxygen.

^{1/} Reject

ตารางที่ 2 (ต่อ) ผล Relative Accuracy จากปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง

ชุดข้อมูลที่	วันที่	เวลา		อุณหภูมิ (Temperature)		
		เริ่มต้น	สุดท้าย	วิธีมาตรฐาน	CEMs	ความแตกต่าง(di)
				°C		
1	16/6/2025	13:30	14:12	125.92	119.70	6.22
2	16/6/2025	15:10	15:52	126.42	119.39	7.03
3	17/6/2025	09:20	10:02	125.58	118.00	7.58
4	17/6/2025	10:05	10:47	125.25	118.00	7.25
5	17/6/2025	11:00	11:42	125.33	117.91	7.42
6	17/6/2025	12:00	12:42	125.17	117.45	7.72
7	17/6/2025	12:50	13:32	125.17	117.98	7.19
8	17/6/2025	13:40	14:22	125.83	118.95	6.88
9	17/6/2025	14:35	15:17	126.50	119.00	7.50
10	17/6/2025	15:25	15:07	126.17	119.12	7.05
11	18/6/2025	09:30	10:12	125.42	118.01	7.41
12	18/6/2025	10:20	11:02	126.58	119.13	7.45
Average				125.78	118.55	7.23
Confidence Coefficient				0.3		
Relative Accuracy Test				5.95		
Performance Specification; RA Test				≤ 20% OF RM		

หมายเหตุ: Instrumental RM and CEMs data were on a consistent dry basis and 7% oxygen.

ตารางที่ 2 (ต่อ) ผล Relative Accuracy จากปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง

ชุดข้อมูลที่	วันที่	เวลา		ออกซิเจน (O ₂)			ออกไซด์ของไนโตรเจน (NO _x)		
		เริ่มต้น	สุดท้าย	วิธีมาตรฐาน	CEMs	ความแตกต่าง (di)	วิธีมาตรฐาน	CEMs	ความแตกต่าง (di)
				% O ₂			ppmvd @ 7% O ₂		
1	23/6/2025	14:01	14:30	11.84	11.75	0.10	170.36 ^{2/}	140.53 ^{2/}	29.83 ^{2/}
2	23/6/2025	14:31	15:00	12.00	12.24	0.24	169.39 ^{2/}	135.96 ^{2/}	33.43 ^{2/}
3	23/6/2025	15:01	15:30	12.13	12.03	0.10	176.04	158.86	17.18
4	23/6/2025	15:31	16:00	11.77	11.81	0.03	179.85	161.66	18.19
5	23/6/2025	16:01	16:30	11.92	11.93	0.01	170.02	145.58	24.43
6	23/6/2025	16:31	17:00	11.54	11.58	0.04	170.32	156.03	14.29
7	23/6/2025	17:01	17:30	11.50	11.59	0.09	159.20	146.84	12.36
8	23/6/2025	17:31	18:00	11.87	12.39	0.52	163.31	148.17	15.13
9	23/6/2025	18:01	18:30	12.31	12.65	0.35	183.40	154.58	28.82
10	23/6/2025	18:31	19:00	12.17	12.57	0.41	179.26 ^{2/}	143.06 ^{2/}	36.20 ^{2/}
11	23/6/2025	19:01	19:30	12.21	12.45	0.24	173.83	161.10	12.73
12	23/6/2025	19:31	20:00	11.52	11.33	0.19	171.80	158.78	13.03
Average				11.90	12.03	0.19	171.97	154.62	17.35
Confidence Coefficient				-			4.40		
Relative Accuracy Test				0.19			12.65		
Performance Specification; RA Test				≤1% of Value			≤20% of RM ^{1/}		

หมายเหตุ: Instrumental RM and CEMs data were on a consistent dry basis and 7% oxygen.

^{1/} 20% of RM Value (NO_x 200 ppmvd @ 7% O₂)

^{2/} Reject

3.3. สรุปผลการติดตามตรวจสอบประสิทธิภาพของระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง

- Relative Accuracy Test

ผลการตรวจสอบประสิทธิภาพของระบบตรวจวัดคุณภาพอากาศจากปล่องระบายแบบต่อเนื่อง โครงการโรงไฟฟ้าชีวมวล ขนาดไม่เกิน 30 เมกะวัตต์ ของบริษัท ไทยรุ่งเรือง ไปโอ-เอ็นเนอร์จี้ จำกัด โดยทำการตรวจวัดปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง ในส่วนของระบบตรวจวัด ประกอบด้วยฝุ่นละออง (Dust), ก๊าซออกไซด์ไนโตรเจน (NO_x), ก๊าซซัลเฟอร์ไดออกไซด์ (SO_2), ก๊าซคาร์บอนมอนอกไซด์ (CO), ก๊าซออกซิเจนไดออกไซด์ (O_2), อัตราการระบาย (Flow Rate) และอุณหภูมิ (Temperature) ดังต่อไปนี้

ปล่องระบายของหม้อไอน้ำ ขนาด 200 ตัน/ชั่วโมง

ประสิทธิภาพของระบบตรวจวัดก๊าซออกซิเจน (O_2) ผลตรวจวัดมีความแตกต่างจากวิธีมาตรฐานเท่ากับ 0.14 เปอร์เซ็นต์ และ 0.19 เปอร์เซ็นต์ ส่วนระบบตรวจวัดปริมาณฝุ่นละออง (Dust), ก๊าซออกไซด์ของไนโตรเจน (NO_x), ก๊าซซัลเฟอร์ไดออกไซด์ (SO_2), ก๊าซคาร์บอนมอนอกไซด์ (CO) อัตราการระบาย (Flow Rate) และอุณหภูมิ (Temperature) ผลตรวจวัดมีความแตกต่างจากวิธีมาตรฐาน เท่ากับ 8.16, 12.65, 6.29, 1.30, 6.71 และ 5.95 เปอร์เซ็นต์ (ตามลำดับ) ซึ่งเป็นไปตามข้อกำหนดของ US.EPA. 40 CFR Part 60 Appendix B, Performance Specification 2, 3, 4 และ 6 (PS-2, PS-3, PS-4, PS-6) กำหนดให้ผลการตรวจวัดปริมาณฝุ่นละอองมีความแตกต่างไม่เกิน 10 เปอร์เซ็นต์ จากค่ามาตรฐานการปล่อยมลพิษ ก๊าซออกซิเจนมีความแตกต่างไม่เกิน 1 เปอร์เซ็นต์ จากวิธีตรวจวัดมาตรฐาน ผลตรวจวัดก๊าซออกไซด์ของไนโตรเจน กำหนดให้มีความแตกต่างไม่เกิน 20 เปอร์เซ็นต์ จากวิธีตรวจวัดมาตรฐาน ผลตรวจวัดก๊าซซัลเฟอร์ไดออกไซด์ กำหนดให้มีความแตกต่างไม่เกิน 10 เปอร์เซ็นต์ จากค่ามาตรฐานการปล่อยมลพิษ ผลตรวจวัดก๊าซคาร์บอนมอนอกไซด์ กำหนดให้มีความแตกต่างไม่เกิน 5 เปอร์เซ็นต์ จากวิธีมาตรฐาน ผลตรวจวัดอัตราการระบาย กำหนดให้มีความแตกต่างไม่เกิน 20 เปอร์เซ็นต์ จากวิธีมาตรฐาน และผลตรวจวัดอุณหภูมิ กำหนดให้มีความแตกต่างไม่เกิน 20 เปอร์เซ็นต์ จากวิธีมาตรฐาน รายละเอียดดังตารางที่ 3

ตารางที่ 3 สรุปผลการตรวจสอบความถูกต้องการทำงาน CEMs

ปล่อง	เครื่องตรวจวัด	ค่าเฉลี่ยสารเจือปน		ค่าเฉลี่ยความแตกต่าง	Confidence Coefficient	RA (%)	% เกณฑ์การประเมิน	สรุปผลการตรวจสอบ
		วิธีอ้างอิงมาตรฐาน	CEMs					
Boiler 200 Tons	SO ₂ ^{1/}	5.31	6.46	2.50	1.27	6.29	≤ 10	ผ่าน
	CO ^{1/}	97.92	98.60	6.33	2.64	1.30	≤ 5	ผ่าน
	O ₂ ^{1/}	11.34	11.21	0.14	-	0.14	≤ 1	ผ่าน
	Dust ^{1/}	31.57	28.96	6.34	3.45	8.16	≤ 10	ผ่าน
	Flow Rate ^{1/}	324,029	337,009	15,829	5,911	6.71	≤ 20	ผ่าน
	Temperature ^{1/}	125.78	118.55	7.23	0.3	5.95	≤ 20	ผ่าน
	O ₂ ^{2/}	11.90	12.03	0.19	-	0.19	≤ 1	ผ่าน
	NO _x ^{2/}	171.97	154.62	17.35	4.40	12.65	≤ 20	ผ่าน

หมายเหตุ : SO₂, NO_x และ CO มีหน่วย ppmvd @ 7% O₂
O₂ มีหน่วยเป็น % (Dry Basis)
Dust มีหน่วย mg/m³ @ 7% O₂
Flow Rate มีหน่วยเป็น Nm³/hr.
Temperature มีหน่วยเป็น °C
^{1/} เก็บตัวอย่างเมื่อวันที่ 16 มิถุนายน พ.ศ. 2568
^{2/} เก็บตัวอย่างเมื่อวันที่ 23 มิถุนายน พ.ศ. 2568

ใบรายงานผลการวิเคราะห์คุณภาพอากาศ
จากปล่องระบายแบบต่อเนื่อง (CEMs)


ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 16, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 16, 2025
SAMPLING SOURCE	: ปล่องระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง	ISSUE DATE	: JULY 8, 2025
SAMPLE TYPE	: STACK	REPORT NO.	: 2025-U062688
SAMPLING DATE	: JUNE 16, 2025	WORK NO.	: 2025-003429
SAMPLING TIME	: 16:00-20:11 HOUR	ANALYSIS NO.	: T25AP081-0001
SAMPLING BY	: MR SUKSUN PANSING ว-145-จ-0001		
ANALYZED BY	: MR SUKSUN PANSING ว-145-จ-0001		

RM CEMs INSTRUMENTS DETAIL						
PARAMETERS	BRAND	MODEL	SERIAL NUMBER	MEASURING RANGE		
O ₂	THERMO SCIENTIFIC	410I	1180540075	0-25 %		

RELATIVE ACCURACY TEST AUDIT FOR CEMs (RATA)						
RUN NO.	DATE	TIME		O ₂		
		START	END	INSTRUMENTAL RM	CEMs	DIFF (di)
				% O ₂		
1	16/6/2025	16:00	16:20	12.44	12.42	0.02
2	16/6/2025	16:21	16:41	11.62	11.64	0.01
3	16/6/2025	16:42	17:02	11.09	11.12	0.03
4	16/6/2025	17:03	17:23	11.49 ^{1/}	10.29 ^{1/}	1.21 ^{1/}
5	16/6/2025	17:24	17:44	11.39	11.16	0.23
6	16/6/2025	17:45	18:05	11.12	11.15	0.03
7	16/6/2025	18:06	18:26	11.12 ^{1/}	10.15 ^{1/}	0.97 ^{1/}
8	16/6/2025	18:27	18:47	11.22	11.13	0.08
9	16/6/2025	18:48	19:08	11.31	11.21	0.10
10	16/6/2025	19:09	19:29	11.78 ^{1/}	11.08 ^{1/}	0.69 ^{1/}
11	16/6/2025	19:30	19:50	10.84	10.33	0.51
12	16/6/2025	19:51	20:11	11.00	10.77	0.24
AVERAGE				11.34	11.21	0.14
SD						0.16
t-value				2.306		
CONFIDENCE COEFFICIENT				-		
RELATIVE ACCURACY				0.14		
PERFORMANCE SPECIFICATION : RA TEST				≤ 1% OF VALUE		

REMARK ^{1/} REJECT


 (MR NATTAWAT DANGSAWAT)
 LABORATORY SUPERVISOR
 ว-145-ค-0021

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 16, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 16, 2025
SAMPLING SOURCE	: ปล่องระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง	ISSUE DATE	: JULY 8, 2025
SAMPLE TYPE	: STACK	REPORT NO.	: 2025-U062690
SAMPLING DATE	: JUNE 16, 2025	WORK NO.	: 2025-003429
SAMPLING TIME	: 16:00-20:11 HOUR	ANALYSIS NO.	: T25AP081-0001
SAMPLING BY	: MR SUKSUN PANSING ว-145-จ-0001		
ANALYZED BY	: MR SUKSUN PANSING ว-145-จ-0001		

RM CEMs INSTRUMENTS DETAIL						
PARAMETERS		BRAND		MODEL	SERIAL NUMBER	MEASURING RANGE
SO ₂		THERMO SCIENTIFIC		43I-HL	1180540073	0-1000 ppm
RELATIVE ACCURACY TEST AUDIT FOR CEMs (RATA)						
RUN NO.	DATE	TIME		SO ₂		
		START	END	INSTRUMENTAL RM	CEMs	DIFF (di)
				ppmvd @ 7% O2		
1	16/6/2025	16:00	16:20	7.22 ^{2/}	2.34 ^{2/}	4.87 ^{2/}
2	16/6/2025	16:21	16:41	5.42	3.44	1.98
3	16/6/2025	16:42	17:02	5.53	10.17	4.64
4	16/6/2025	17:03	17:23	5.73	5.45	0.27
5	16/6/2025	17:24	17:44	5.56	3.31	2.25
6	16/6/2025	17:45	18:05	5.10	5.49	0.39
7	16/6/2025	18:06	18:26	4.85	7.61	2.76
8	16/6/2025	18:27	18:47	5.09	9.09	4.00
9	16/6/2025	18:48	19:08	5.12	9.74	4.62
10	16/6/2025	19:09	19:29	5.42	3.86	1.56
11	16/6/2025	19:30	19:50	5.88 ^{2/}	1.31 ^{2/}	4.57 ^{2/}
12	16/6/2025	19:51	20:11	5.56 ^{2/}	10.65 ^{2/}	5.08 ^{2/}
AVERAGE				5.31	6.46	2.50
SD						1.66
t-value				2.306		
CONFIDENCE COEFFICIENT				1.27		
RELATIVE ACCURACY				6.29		
PERFORMANCE SPECIFICATION : RA TEST				≤ 10% OF STD. ^{1/}		

REMARK ^{1/} 10% OF STD. (SO₂ 60 ppmvd @ 7% O₂)

^{2/} REJECT



(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR
ว-145-ค-0021

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 16, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 16, 2025
SAMPLING SOURCE	: ปล่องระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง	ISSUE DATE	: JULY 8, 2025
SAMPLE TYPE	: STACK	REPORT NO.	: 2025-U062694
SAMPLING DATE	: JUNE 16, 2025	WORK NO.	: 2025-003429
SAMPLING TIME	: 16:00-20:11 HOUR	ANALYSIS NO.	: T25AP081-0001
SAMPLING BY	: MR SUKSUN PANSING จ-145-จ-0001		
ANALYZED BY	: MR SUKSUN PANSING จ-145-จ-0001		

RM CEMs INSTRUMENTS DETAIL						
PARAMETERS		BRAND		MODEL	SERIAL NUMBER	MEASURING RANGE
CO		THERMO SCIENTIFIC		481	1180540070	0-1000 ppm
RELATIVE ACCURACY TEST AUDIT FOR CEMs (RATA)						
RUN NO.	DATE	TIME		CO		
		START	END	INSTRUMENTAL RM	CEMs	DIFF (di)
				ppmvd @ 7% O2		
1	16/6/2025	16:00	16:20	132.05	123.44	8.60
2	16/6/2025	16:21	16:41	123.39	124.42	1.02
3	16/6/2025	16:42	17:02	87.01 ^{2/}	100.50 ^{2/}	13.49 ^{2/}
4	16/6/2025	17:03	17:23	99.44 ^{2/}	90.02 ^{2/}	9.42 ^{2/}
5	16/6/2025	17:24	17:44	88.23	95.26	7.03
6	16/6/2025	17:45	18:05	93.39	98.40	5.01
7	16/6/2025	18:06	18:26	92.89	84.16	8.73
8	16/6/2025	18:27	18:47	95.71	95.89	0.18
9	16/6/2025	18:48	19:08	95.01	96.33	1.32
10	16/6/2025	19:09	19:29	129.50 ^{2/}	111.34 ^{2/}	18.16 ^{2/}
11	16/6/2025	19:30	19:50	88.15	96.38	8.23
12	16/6/2025	19:51	20:11	91.12	95.45	4.33
AVERAGE				97.92	98.60	6.33
SD						3.43
t-value				2.306		
CONFIDENCE COEFFICIENT				2.64		
RELATIVE ACCURACY				1.30		
PERFORMANCE SPECIFICATION : RA TEST				≤ 5% OF STD. ^{1/}		

REMARK ^{1/} 5% OF STD. (CO 690 ppmvd @ 7% O₂)

^{2/} REJECT



(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR
จ-145-ค-0021

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ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 20, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 20-25, 2025
SAMPLING SOURCE	: ปล่องระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง	ISSUE DATE	: JULY 8, 2025
SAMPLE TYPE	: STACK	REPORT NO.	: 2025-U062701
SAMPLING DATE	: JUNE 16-18, 2025	WORK NO.	: 2025-003429
SAMPLING TIME	: 13:30-13:02 HOUR	ANALYSIS NO.	: T25AN580-0001-T25AN580-0015
SAMPLING BY	: MR SUKSUN PANSING ๖-145-จ-0001		
ANALYZED BY	: MR SUKSUN PANSING ๖-145-จ-0001		

RUN NO.	DATE	TIME		DUST		
		START	END	INSTRUMENTAL RM	CEMs	DIFF (di)
				mg/m ³ @ 7% O ₂		
1	16/6/2025	13:30	14:12	35.00	26.48	8.52
2	17/6/2025	09:20	10:02	62.30 ^{2/}	31.11 ^{2/}	31.19 ^{2/}
3	17/6/2025	11:00	11:42	50.50 ^{2/}	28.03 ^{2/}	22.47 ^{2/}
4	17/6/2025	12:00	12:42	29.90	27.27	2.63
5	17/6/2025	12:50	13:32	26.50	30.24	3.74
6	17/6/2025	13:40	14:22	23.10	26.46	3.36
7	17/6/2025	14:35	15:17	28.50	29.51	1.01
8	17/6/2025	15:25	15:07	23.40	32.12	8.72
9	18/6/2025	09:30	10:12	43.50 ^{2/}	27.35 ^{2/}	16.15 ^{2/}
10	18/6/2025	10:20	11:02	43.50	31.17	12.33
11	18/6/2025	11:20	12:02	43.70	30.39	13.31
12	18/6/2025	12:20	13:02	30.50	27.03	3.47
AVERAGE				31.57	28.96	6.34
SD						4.49
t-value					2.306	
CONFIDENCE COEFFICIENT					3.45	
RELATIVE ACCURACY					8.16	
PERFORMANCE SPECIFICATION : RA TEST					≤ 10% OF RM ^{1/}	

REMARK ^{1/} 10% OF RM (TSP 120 mg/m³ @ 7% O₂)

^{2/} REJECT



(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

๖-145-ค-0021

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ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
SAMPLING SOURCE : ปล่องระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 16-18, 2025
SAMPLING TIME : 13:30-13:02 HOUR
SAMPLING BY : MR SUKSUN PANSING ว-145-จ-0001
ANALYZED BY : MR SUKSUN PANSING ว-145-จ-0001

RECEIVED DATE : JUNE 16-18, 2025
ANALYTICAL DATE : JUNE 16-18, 2025
ISSUE DATE : JULY 8, 2025
REPORT NO. : 2025-U062695
WORK NO. : 2025-003429
ANALYSIS NO. : T25AP081-0001

RELATIVE ACCURACY TEST AUDIT FOR CEMs (RATA)

RUN NO.	DATE	TIME		FLOW RATE		
		START	END	INSTRUMENTAL RM	CEMs	DIFF (di)
					Nm ³ /hr.	
1	16/6/2025	13:30	14:12	308,652 ^{1/}	350,011 ^{1/}	41,359 ^{1/}
2	16/6/2025	14:20	15:02	320,515	336,450	15,935
3	16/6/2025	15:10	15:52	324,935	329,557	4,622
4	17/6/2025	09:20	10:02	326,592	341,103	14,511
5	17/6/2025	10:05	10:47	309,853 ^{1/}	345,837 ^{1/}	35,985 ^{1/}
6	17/6/2025	11:00	11:42	312,182	324,246	12,064
7	17/6/2025	12:50	13:32	305,027 ^{1/}	342,201 ^{1/}	37,174 ^{1/}
8	17/6/2025	13:40	14:22	311,984	343,032	31,048
9	18/6/2025	09:30	10:12	330,097	343,534	13,437
10	18/6/2025	10:20	11:02	332,811	346,128	13,318
11	18/6/2025	11:20	12:02	328,982	316,165	12,816
12	18/6/2025	12:20	13:02	328,161	352,867	24,706
AVERAGE				324,029	337,009	15,829
SD						7,690
t-value					2.306	
CONFIDENCE COEFFICIENT					5.911	
RELATIVE ACCURACY					6.71	
PERFORMANCE SPECIFICATION : RA TEST					≤ 20% OF RM	

REMARK ^{1/} REJECT



(MR NATTAWAT DANGSAWAT)

LABORATORY SUPERVISOR

ว-145-ค-0021

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ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 16-18, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 16-18, 2025
SAMPLING SOURCE	: ปล่องระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง	ISSUE DATE	: JULY 8, 2025
SAMPLE TYPE	: STACK	REPORT NO.	: 2025-U062696
SAMPLING DATE	: JUNE 16,-18 2025	WORK NO.	: 2025-003429
SAMPLING TIME	: 13:30-11:02 HOUR	ANALYSIS NO.	: T25AP081-0001
SAMPLING BY	: MR SUKSUN PANSING จ-145-จ-0001		
ANALYZED BY	: MR SUKSUN PANSING จ-145-จ-0001		

RELATIVE ACCURACY TEST AUDIT FOR CEMs (RATA)

RUN NO.	DATE	TIME		TEMPERATURE		
		START	END	INSTRUMENTAL RM	CEMs	DIFF (di)
					C°	
1	16/6/2025	13:30	14:12	125.92	119.70	6.22
2	16/6/2025	15:10	15:52	126.42	119.39	7.03
3	17/6/2025	09:20	10:02	125.58	118.00	7.58
4	17/6/2025	10:05	10:47	125.25	118.00	7.25
5	17/6/2025	11:00	11:42	125.33	117.91	7.42
6	17/6/2025	12:00	12:42	125.17	117.45	7.72
7	17/6/2025	12:50	13:32	125.17	117.98	7.19
8	17/6/2025	13:40	14:22	125.83	118.95	6.88
9	17/6/2025	14:35	15:17	126.50	119.00	7.50
10	17/6/2025	15:25	15:07	126.17	119.12	7.05
11	18/6/2025	09:30	10:12	125.42	118.01	7.41
12	18/6/2025	10:20	11:02	126.58	119.13	7.45
AVERAGE				125.78	118.55	7.23
SD						0.40
t-value					2.201	
CONFIDENCE COEFFICIENT					0.3	
RELATIVE ACCURACY					5.95	
PERFORMANCE SPECIFICATION : RA TEST					≤ 20% OF RM	



(MR NATTAWAT DANGSAWAT)

LABORATORY SUPERVISOR

จ-145-ค-0021

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ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 23, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 23, 2025
SAMPLING SOURCE	: ปล่องระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง	ISSUE DATE	: JULY 8, 2025
SAMPLE TYPE	: STACK	REPORT NO.	: 2025-U062886
SAMPLING DATE	: JUNE 23, 2025	WORK NO.	: 2025-005698
SAMPLING TIME	: 14:01-20:00 HOUR	ANALYSIS NO.	: T25AN997-0001
SAMPLING BY	: MR PONGTHEP LAOKAJORN ว-145-จ-0025		
ANALYZED BY	: MR PONGTHEP LAOKAJORN ว-145-จ-0025		

RM CEMs INSTRUMENTS DETAIL						
PARAMETERS	BRAND	MODEL	SERIAL NUMBER	MEASURING RANGE		
O ₂	THERMO SCIENTIFIC	4101	1180540075	0-25 %		

RELATIVE ACCURACY TEST AUDIT FOR CEMs (RATA)						
RUN NO.	DATE	TIME		O ₂		
		START	END	INSTRUMENTAL RM	CEMs	DIFF (di)
				% O ₂		
1	23/6/2025	14:01	14:30	11.84	11.75	0.10
2	23/6/2025	14:31	15:00	12.00	12.24	0.24
3	23/6/2025	15:01	15:30	12.13	12.03	0.10
4	23/6/2025	15:31	16:00	11.77	11.81	0.03
5	23/6/2025	16:01	16:30	11.92	11.93	0.01
6	23/6/2025	16:31	17:00	11.54	11.58	0.04
7	23/6/2025	17:01	17:30	11.50	11.59	0.09
8	23/6/2025	17:31	18:00	11.87	12.39	0.52
9	23/6/2025	18:01	18:30	12.31	12.65	0.35
10	23/6/2025	18:31	19:00	12.17	12.57	0.41
11	23/6/2025	19:01	19:30	12.21	12.45	0.24
12	23/6/2025	19:31	20:00	11.52	11.33	0.19
AVERAGE				11.90	12.03	0.19
SD						0.16
t-value				2.201		
CONFIDENCE COEFFICIENT				-		
RELATIVE ACCURACY				0.19		
PERFORMANCE SPECIFICATION : RA TEST				≤ 1% OF VALUE		

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR
ว-145-ค-0021

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 23, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 23, 2025
SAMPLING SOURCE	: ปล่องระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง	ISSUE DATE	: JULY 8, 2025
SAMPLE TYPE	: STACK	REPORT NO.	: 2025-U062887
SAMPLING DATE	: JUNE 23, 2025	WORK NO.	: 2025-005698
SAMPLING TIME	: 14:01-20:00 HOUR	ANALYSIS NO.	: T25AN997-0001
SAMPLING BY	: MR PONGTHEP LAOKAJORN ว-145-จ-0025		
ANALYZED BY	: MR PONGTHEP LAOKAJORN ว-145-จ-0025		

RM CEMs INSTRUMENTS DETAIL						
PARAMETERS	BRAND	MODEL	SERIAL NUMBER	MEASURING RANGE		
NO _x /NO/NO ₂	THERMO SCIENTIFIC	42I-HL	1180540072	0-5000 ppm		

RELATIVE ACCURACY TEST AUDIT FOR CEMs (RATA)						
RUN NO.	DATE	TIME		NO _x		
		START	END	INSTRUMENTAL RM	CEMs	DIFF (di)
				ppmvd @ 7% O ₂		
1	23/6/2025	14:01	14:30	170.36 ^{2/}	140.53 ^{2/}	29.83 ^{2/}
2	23/6/2025	14:31	15:00	169.39 ^{2/}	135.96 ^{2/}	33.43 ^{2/}
3	23/6/2025	15:01	15:30	176.04	158.86	17.18
4	23/6/2025	15:31	16:00	179.85	161.66	18.19
5	23/6/2025	16:01	16:30	170.02	145.58	24.43
6	23/6/2025	16:31	17:00	170.32	156.03	14.29
7	23/6/2025	17:01	17:30	159.20	146.84	12.36
8	23/6/2025	17:31	18:00	163.31	148.17	15.13
9	23/6/2025	18:01	18:30	183.40	154.58	28.82
10	23/6/2025	18:31	19:00	179.26 ^{2/}	143.06 ^{2/}	36.20 ^{2/}
11	23/6/2025	19:01	19:30	173.83	161.10	12.73
12	23/6/2025	19:31	20:00	171.80	158.78	13.03
AVERAGE				171.97	154.62	17.35
SD						5.72
t-value					2.306	
CONFIDENCE COEFFICIENT					4.40	
RELATIVE ACCURACY					12.65	
PERFORMANCE SPECIFICATION : RA TEST					≤ 20% OF RM ^{1/}	

REMARK ^{1/} 20% OF RM (NO_x 200 ppmvd @ 7% O₂)

^{2/} REJECT



(MR NATTAWAT DANGSAWAT)

LABORATORY SUPERVISOR

ว-145-น-0021

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 16, 2025
SAMPLING TIME : 13:30-14:12 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049
ANALYZED BY : MISS SUWAN KONGTHONG ว-145-ค-0025
RECEIVED DATE : JUNE 20, 2025
ANALYTICAL DATE : JUNE 20-25, 2025
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REPORT NO. : 2025-U059096
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 1) T25AN580-0001	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	25.5	35.0
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 1) T25AN580-0001
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	31.92
STACK TEMPERATURE	°C	125.92
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.43
FLOW RATE	Nm ³ /hr	308,651.93
OXYGEN	%	10.78
MOISTURE	%	15.39
CARBONDIOXIDE	%	5.77
VOLUME OF DRY GAS AT STP	m ³	0.944689

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
ว-145-ค-0011



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ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 16, 2025
SAMPLING TIME : 14:20-15:02 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049
ANALYZED BY : MISS SUWAN KONGTHONG ว-145-ค-0025

RECEIVED DATE : JUNE 20, 2025
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REPORT NO. : 2025-U059097
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 2) T25AN580-0002	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	35.7	61.0
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 2) T25AN580-0002
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	34.25
STACK TEMPERATURE	°C	126.33
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.62
FLOW RATE	Nm ³ /hr	320,514.68
OXYGEN	%	12.76
MOISTURE	%	14.48
CARBONDIOXIDE	%	4.64
VOLUME OF DRY GAS AT STP	m ³	0.933065

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

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ว-145-ค-0011



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ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 16, 2025
SAMPLING TIME : 15:10-15:52 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA จ-145-จ-0049
ANALYZED BY : MISS SUWAN KONGTHONG จ-145-ค-0025

RECEIVED DATE : JUNE 20, 2025
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REPORT NO. : 2025-U059098
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 3) T25AN580-0003	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	39.4	61.9
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 3) T25AN580-0003
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	37
STACK TEMPERATURE	°C	126.42
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.69
FLOW RATE	Nm ³ /hr	324,935.23
OXYGEN	%	12.05
MOISTURE	%	14.29
CARBONDIOXIDE	%	5.06
VOLUME OF DRY GAS AT STP	m ³	0.924959

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

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ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 17, 2025
SAMPLING TIME : 09:20-10:02 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049
ANALYZED BY : MISS SUWAN KONGTHONG ว-145-ค-0025

RECEIVED DATE : JUNE 20, 2025
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REPORT NO. : 2025-U059099
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 4) T25AN580-0004	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	39.5	62.3
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 4) T25AN580-0004
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	30.92
STACK TEMPERATURE	°C	125.58
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.58
FLOW RATE	Nm ³ /hr	326,592.16
OXYGEN	%	12.09
MOISTURE	%	12.62
CARBONDIOXIDE	%	5.04
VOLUME OF DRY GAS AT STP	m ³	0.943605

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

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CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 17, 2025
SAMPLING TIME : 10:05-10:47 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049
ANALYZED BY : MISS SUWAN KONGTHONG ว-145-ค-0025

RECEIVED DATE : JUNE 20, 2025
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REPORT NO. : 2025-U059100
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 5) T25AN580-0005	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	40.9	60.0
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 5) T25AN580-0005
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	32.67
STACK TEMPERATURE	°C	125.25
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.27
FLOW RATE	Nm ³ /hr	309,852.81
OXYGEN	%	11.42
MOISTURE	%	12.95
CARBONDIOXIDE	%	5.32
VOLUME OF DRY GAS AT STP	m ³	0.946791

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

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ว-145-ค-0011



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ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 17, 2025
SAMPLING TIME : 11:00-11:42 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049
ANALYZED BY : MISS SUWAN KONGTHONG ว-145-ค-0025

RECEIVED DATE : JUNE 20, 2025
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ISSUE DATE : JUNE 27, 2025
REPORT NO. : 2025-U059101
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 6) T25AN580-0006	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	36.4	50.5
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 6) T25AN580-0006
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	33.5
STACK TEMPERATURE	°C	125.33
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.36
FLOW RATE	Nm ³ /hr	312,182.31
OXYGEN	%	10.88
MOISTURE	%	13.61
CARBONDIOXIDE	%	5.74
VOLUME OF DRY GAS AT STP	m ³	0.938814

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

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CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 20, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 20-25, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JUNE 27, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U059102
SAMPLE TYPE	: STACK	WORK NO.	: 2025-003429
SAMPLING DATE	: JUNE 17, 2025	ANALYSIS NO.	: T25AN580-0007
SAMPLING TIME	: 12:00-12:42 HOUR		
SAMPLING BY	: MR RONNAPOB PUTRAGULPATTANA ร-145-จ-0049		
ANALYZED BY	: MISS SUWAN KONGTHONG ร-145-ค-0025		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 7) T25AN580-0007	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	22.3	29.9
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 7) T25AN580-0007
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	34.58
STACK TEMPERATURE	°C	125.17
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.21
FLOW RATE	Nm ³ /hr	307,299.19
OXYGEN	%	10.53
MOISTURE	%	12.92
CARBONDIOXIDE	%	6.04
VOLUME OF DRY GAS AT STP	m ³	0.93614

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

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LABORATORY SUPERVISOR
ร-145-ค-0011



ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 20, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 20-25, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JUNE 27, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U059103
SAMPLE TYPE	: STACK	WORK NO.	: 2025-003429
SAMPLING DATE	: JUNE 17, 2025	ANALYSIS NO.	: T25AN580-0008
SAMPLING TIME	: 12:50-13:32 HOUR		
SAMPLING BY	: MR RONNAPOB PUTRAGULPATTANA ๖-145-๖-0049		
ANALYZED BY	: MISS SUWAN KONGTHONG ๖-145-๓-0025		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 8) T25AN580-0008	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	16.5	26.5
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 8) T25AN580-0008
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	36.33
STACK TEMPERATURE	°C	125.17
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.25
FLOW RATE	Nm ³ /hr	305,026.92
OXYGEN	%	12.23
MOISTURE	%	14.1
CARBONDIOXIDE	%	5
VOLUME OF DRY GAS AT STP	m ³	0.927756

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
๖-145-๓-0011



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 17, 2025
SAMPLING TIME : 13:40-14:22 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049
ANALYZED BY : MISS SUWAN KONGTHONG ว-145-ค-0025

RECEIVED DATE : JUNE 20, 2025
ANALYTICAL DATE : JUNE 20-25, 2025
ISSUE DATE : JUNE 27, 2025
REPORT NO. : 2025-U059104
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 9) T25AN580-0009	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	16.1	23.1
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 9) T25AN580-0009
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	37.5
STACK TEMPERATURE	°C	125.83
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.37
FLOW RATE	Nm ³ /hr	311,983.60
OXYGEN	%	11.21
MOISTURE	%	13.63
CARBONDIOXIDE	%	5.66
VOLUME OF DRY GAS AT STP	m ³	0.924909

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
ว-145-ค-0011



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 17, 2025
SAMPLING TIME : 14:35-15:17 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049
ANALYZED BY : MISS SUWAN KONGTHONG ว-145-ค-0025

RECEIVED DATE : JUNE 20, 2025
ANALYTICAL DATE : JUNE 20-25, 2025
ISSUE DATE : JUNE 27, 2025
REPORT NO. : 2025-U059105
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 10) T25AN580-0010	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	18.4	28.5
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 10) T25AN580-0010
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	38.33
STACK TEMPERATURE	°C	126.5
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.24
FLOW RATE	Nm ³ /hr	305,222.96
OXYGEN	%	11.92
MOISTURE	%	13.6
CARBONDIOXIDE	%	5.15
VOLUME OF DRY GAS AT STP	m ³	0.927266

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Budsakorn ✓

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LABORATORY SUPERVISOR
ว-145-ค-0011



ANALYSIS REPORT


CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 20, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 20-25, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JUNE 27, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U059106
SAMPLE TYPE	: STACK	WORK NO.	: 2025-003429
SAMPLING DATE	: JUNE 17, 2025	ANALYSIS NO.	: T25AN580-0011
SAMPLING TIME	: 15:25-16:07 HOUR		
SAMPLING BY	: MR RONNAPOB PUTRAGULPATTANA ๖-145-๑-0049		
ANALYZED BY	: MISS SUWAN KONGTHONG ๖-145-๑-0025		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 11) T25AN580-0011	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	15.7	23.4
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 11) T25AN580-0011
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	39.67
STACK TEMPERATURE	°C	126.17
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.33
FLOW RATE	Nm ³ /hr	312,613.95
OXYGEN	%	11.56
MOISTURE	%	12.83
CARBONDIOXIDE	%	5.35
VOLUME OF DRY GAS AT STP	m ³	0.923924

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.


 (MISS BUDSAKORN LERDPANUMAS)
 LABORATORY SUPERVISOR
 ๖-145-๑-0011



ANALYSIS REPORT


CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 20, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 20-25, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JUNE 27, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U059107
SAMPLE TYPE	: STACK	WORK NO.	: 2025-003429
SAMPLING DATE	: JUNE 18, 2025	ANALYSIS NO.	: T25AN580-0012
SAMPLING TIME	: 09:30-10:12 HOUR		
SAMPLING BY	: MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049		
ANALYZED BY	: MISS SUWAN KONGTHONG ว-145-ค-0025		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 12) T25AN580-0012	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	25.5	43.5
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 12) T25AN580-0012
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	30.75
STACK TEMPERATURE	°C	125.42
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.71
FLOW RATE	Nm ³ /hr	330,097.23
OXYGEN	%	12.76
MOISTURE	%	13.34
CARBONDIOXIDE	%	4.63
VOLUME OF DRY GAS AT STP	m ³	0.943454

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.


 (MISS BUDSAKORN LERDPANUMAS)
 LABORATORY SUPERVISOR
 ว-145-ค-0011




ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 20, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 20-25, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JUNE 27, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U059108
SAMPLE TYPE	: STACK	WORK NO.	: 2025-003429
SAMPLING DATE	: JUNE 18, 2025	ANALYSIS NO.	: T25AN580-0013
SAMPLING TIME	: 10:20-11:02 HOUR		
SAMPLING BY	: MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049		
ANALYZED BY	: MISS SUWAN KONGTHONG ว-145-ค-0025		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 13) T25AN580-0013	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	27.6	43.5
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 13) T25AN580-0013
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	31.5
STACK TEMPERATURE	°C	126.58
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.76
FLOW RATE	Nm ³ /hr	332,810.58
OXYGEN	%	12.08
MOISTURE	%	13
CARBONDIOXIDE	%	5.1
VOLUME OF DRY GAS AT STP	m ³	0.94852

REMARK
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.


.....
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
ว-145-ค-0011



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 18, 2025
SAMPLING TIME : 11:20-12:02 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ๖-145-๖-0049
ANALYZED BY : MISS SUWAN KONGTHONG ๖-145-ค-0025

RECEIVED DATE : JUNE 20, 2025
ANALYTICAL DATE : JUNE 20-25, 2025
ISSUE DATE : JUNE 27, 2025
REPORT NO. : 2025-U059109
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0014

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 14) T25AN580-0014	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	26.4	43.7
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 14) T25AN580-0014
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	33.17
STACK TEMPERATURE	°C	127
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.65
FLOW RATE	Nm ³ /hr	328,981.73
OXYGEN	%	12.5
MOISTURE	%	12.47
CARBONDIOXIDE	%	4.81
VOLUME OF DRY GAS AT STP	m ³ •	0.940228

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
๖-145-ค-0011



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : JUNE 18, 2025
SAMPLING TIME : 12:20-13:02 HOUR
SAMPLING BY : MR RONNAPOB PUTRAGULPATTANA ว-145-จ-0049
ANALYZED BY : MISS SUWAN KONGTHONG ว-145-ค-0025

RECEIVED DATE : JUNE 20, 2025
ANALYTICAL DATE : JUNE 20-25, 2025
ISSUE DATE : JUNE 27, 2025
REPORT NO. : 2025-U059110
WORK NO. : 2025-003429
ANALYSIS NO. : T25AN580-0015

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ ชั่วโมง (ครั้งที่ 15) T25AN580-0015	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	19.6	30.5
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยระบายของหม้อไอน้ำ 200 ตัน/ชั่วโมง (ครั้งที่ 15) T25AN580-0015
AMBIENT PRESSURE	mmHg	755
AMBIENT TEMPERATURE	°C	34.5
STACK TEMPERATURE	°C	127
DIAMETER	m	5.2
GAS VELOCITY	m/s	6.77
FLOW RATE	Nm ³ /hr	328,160.67
OXYGEN	%	11.98
MOISTURE	%	14.25
CARBONDIOXIDE	%	5.02
VOLUME OF DRY GAS AT STP	m ³	0.934799

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
ว-145-ค-0011



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



ภาคผนวก ค3

รายงานผลการติดตามตรวจสอบคุณภาพอากาศในบรรยากาศ

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JANUARY 21, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JANUARY 21-24, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: FEBRUARY 3, 2025
SAMPLING SOURCE	: บ้านศิลาทอง	REPORT NO.	: 2025-U007247
SAMPLE TYPE	: AMBIENT	WORK NO.	: 2024-012255
SAMPLING DATE	: *, **, ***	ANALYSIS NO.	: T25AB233-0001 - T25AB233-0003
SAMPLING TIME	: *, **, ***		
SAMPLING BY	: MR JIRAWAT SUKKASEM		
ANALYZED BY	: MISS JETJARIN TUMSA-AT		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านศิลาทอง		
			* T25AB233-0001	** T25AB233-0002	*** T25AB233-0003
TOTAL SUSPENDED PARTICULATE MATTER ^a	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.063	0.074	0.073
PARTICULATE MATTER as PM10 (≤ 10 µm) ^a	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.040	0.047	0.055
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) ^a	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021	26.2	36.2	32.9
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.

TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.

PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.

* : SAMPLING FROM 09:00 HOUR ON JANUARY 12, 2025 TO 09:00 HOUR ON JANUARY 13, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 33.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg

** : SAMPLING FROM 09:00 HOUR ON JANUARY 13, 2025 TO 09:00 HOUR ON JANUARY 14, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 31.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg

*** : SAMPLING FROM 09:00 HOUR ON JANUARY 14, 2025 TO 09:00 HOUR ON JANUARY 15, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 30.5 °C, BAROMETRIC PRESSURE IS 757.0 mmHg

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : บ้านศิลาทอง
SAMPLE TYPE : AMBIENT
SAMPLING DATE : * ** *** ****
SAMPLING TIME : * ** *** ****
SAMPLING BY : MR JIRAWAT SUKKASEM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : JANUARY 21, 2025
ANALYTICAL DATE : JANUARY 21-24, 2025
ISSUE DATE : FEBRUARY 3, 2025
REPORT NO. : 2025-U007250
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB233-0004 - T25AB233-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านศิลาทอง			
			*	**	***	****
			T25AB233-0004	T25AB233-0005	T25AB233-0006	T25AB233-0007
TOTAL SUSPENDED PARTICULATE MATTER ^a	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.062	0.066	0.068	0.070
PARTICULATE MATTER as PM10 (≤ 10 µm) ^a	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.047	0.054	0.050	0.054
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) ^a	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021	35.0	34.5	32.2	36.4
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
 PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
 TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
 PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
 * : SAMPLING FROM 09:00 HOUR ON JANUARY 15, 2025 TO 09:00 HOUR ON JANUARY 16, 2025. PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 757.5 mmHg
 ** : SAMPLING FROM 09:00 HOUR ON JANUARY 16, 2025 TO 09:00 HOUR ON JANUARY 17, 2025. PM2.5 AMBIENT AIR TEMPERATURE IS 31.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg
 *** : SAMPLING FROM 09:00 HOUR ON JANUARY 17, 2025 TO 09:00 HOUR ON JANUARY 18, 2025. PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 759.5 mmHg
 **** : SAMPLING FROM 09:00 HOUR ON JANUARY 18, 2025 TO 09:00 HOUR ON JANUARY 19, 2025. PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 759.5 mmHg

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : บ้านทัพพนัน
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR JIRAWAT SUKASEM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : JANUARY 21, 2025
ANALYTICAL DATE : JANUARY 21-24, 2025
ISSUE DATE : FEBRUARY 3, 2025
REPORT NO. : 2025-U007252
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB233-0008 - T25AB233-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านทัพพนัน		
			* T25AB233-0008	** T25AB233-0009	*** T25AB233-0010
TOTAL SUSPENDED PARTICULATE MATTER ^a	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.079	0.108	0.141
PARTICULATE MATTER as PM10 (≤ 10 µm) ^a	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.044	0.062	0.078
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) ^a	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021	14.0	20.8	24.5
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
 PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
 TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
 PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
 * : SAMPLING FROM 09:30 HOUR ON JANUARY 12, 2025 TO 09:30 HOUR ON JANUARY 13, 2025.
 PM2.5 AMBIENT AIR TEMPERATURE IS 33.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg
 ** : SAMPLING FROM 09:30 HOUR ON JANUARY 13, 2025 TO 09:30 HOUR ON JANUARY 14, 2025.
 PM2.5 AMBIENT AIR TEMPERATURE IS 31.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg
 *** : SAMPLING FROM 09:30 HOUR ON JANUARY 14, 2025 TO 09:30 HOUR ON JANUARY 15, 2025.
 PM2.5 AMBIENT AIR TEMPERATURE IS 30.5 °C, BAROMETRIC PRESSURE IS 757.0 mmHg

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : บ้านห้วยหมื่น
SAMPLE TYPE : AMBIENT
SAMPLING DATE : * ** *** ****
SAMPLING TIME : * ** *** ****
SAMPLING BY : MR JIRAWAT SUKASEM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : JANUARY 21, 2025
ANALYTICAL DATE : JANUARY 21-24, 2025
ISSUE DATE : FEBRUARY 3, 2025
REPORT NO. : 2025-U007255
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB233-0011 - T25AB233-0014

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านห้วยหมื่น			
			*	**	***	****
			T25AB233-0011	T25AB233-0012	T25AB233-0013	T25AB233-0014
TOTAL SUSPENDED PARTICULATE MATTER ^a	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.104	0.110	0.090	0.097
PARTICULATE MATTER as PM10 (≤ 10 µm) ^a	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.051	0.059	0.045	0.041
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) ^a	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021	18.8	19.2	13.0	26.1
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 09:30 HOUR ON JANUARY 15, 2025 TO 09:30 HOUR ON JANUARY 16, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 757.5 mmHg
** : SAMPLING FROM 09:30 HOUR ON JANUARY 16, 2025 TO 09:30 HOUR ON JANUARY 17, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 31.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg
*** : SAMPLING FROM 09:30 HOUR ON JANUARY 17, 2025 TO 09:30 HOUR ON JANUARY 18, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 759.5 mmHg
**** : SAMPLING FROM 09:30 HOUR ON JANUARY 18, 2025 TO 09:30 HOUR ON JANUARY 19, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 759.5 mmHg

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : วัดห้วยผึ้งน้อย
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR JIRAWAT SUKKASEM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : JANUARY 21, 2025
ANALYTICAL DATE : JANUARY 21-24, 2025
ISSUE DATE : MAY 29, 2025
REPORT NO. : 2025-U046807
WORK NO. : 2025-003429
ANALYSIS NO. : T25AK713-0001 - T25AK713-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			วัดห้วยผึ้งน้อย		
			* T25AK713-0001	** T25AK713-0002	*** T25AK713-0003
TOTAL SUSPENDED PARTICULATE MATTER ^a	mg/m ³	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.084	0.115	0.136
PARTICULATE MATTER as PM10 (≤ 10 µm) ^a	mg/m ³	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.043	0.061	0.074
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) ^a	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE REVISED AS OF OCTOBER 15, 2021	23.9	36.2	35.2
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
* : SAMPLING FROM 08:30 HOUR ON JANUARY 12, 2025 TO 08:30 HOUR ON JANUARY 13, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 33.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg
** : SAMPLING FROM 08:30 HOUR ON JANUARY 13, 2025 TO 08:30 HOUR ON JANUARY 14, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 31.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg
*** : SAMPLING FROM 08:30 HOUR ON JANUARY 14, 2025 TO 08:30 HOUR ON JANUARY 15, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 30.5 °C, BAROMETRIC PRESSURE IS 757.0 mmHg

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : วัดห้วยผึ้ง
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***, ****
SAMPLING TIME : *, **, ***, ****
SAMPLING BY : MR JIRAWAT SUKKASEM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : JANUARY 21, 2025
ANALYTICAL DATE : JANUARY 21-24, 2025
ISSUE DATE : MAY 29, 2025
REPORT NO. : 2025-U046811
WORK NO. : 2025-003429
ANALYSIS NO. : T25AK713-0004 - T25AK713-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			วัดห้วยผึ้งน้อย			
			* T25AK713-0004	** T25AK713-0005	*** T25AK713-0006	**** T25AK713-0007
TOTAL SUSPENDED PARTICULATE MATTER ^a	mg/m ³	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.134	0.113	0.085	0.096
PARTICULATE MATTER as PM10 (≤ 10 µm) ^a	mg/m ³	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.067	0.050	0.046	0.050



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			วัดหับฝั่งน้อย			
			*	**	***	****
			T25AK713-0004	T25AK713-0005	T25AK713-0006	T25AK713-0007
FINE PARTICULATE MATTER as PM2.5 ($\leq 2.5 \mu\text{m}$) ^a	$\mu\text{g}/\text{m}^3$	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE REVISED AS OF OCTOBER 15, 2021	31.9	27.7	35.7	35.6
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
* : SAMPLING FROM 08:30 HOUR ON JANUARY 15, 2025 TO 08:30 HOUR ON JANUARY 16, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 757.5 mmHg
** : SAMPLING FROM 08:30 HOUR ON JANUARY 16, 2025 TO 08:30 HOUR ON JANUARY 17, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 31.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg
*** : SAMPLING FROM 08:30 HOUR ON JANUARY 17, 2025 TO 08:30 HOUR ON JANUARY 18, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 759.5 mmHg
**** : SAMPLING FROM 08:30 HOUR ON JANUARY 18, 2025 TO 08:30 HOUR ON JANUARY 19, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 759.5 mmHg

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : ที่พักสงฆ์ในฤๅมิตร
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR JIRAWAT SUKASEM
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : JANUARY 21, 2025
ANALYTICAL DATE : JANUARY 21-24, 2025
ISSUE DATE : MAY 29, 2025
REPORT NO. : 2025-U046815
WORK NO. : 2025-003429
ANALYSIS NO. : T25AK713-0008 - T25AK713-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			ที่พักสงฆ์ในฤๅมิตร		
			* T25AK713-0008	** T25AK713-0009	*** T25AK713-0010
TOTAL SUSPENDED PARTICULATE MATTER ^a	mg/m ³	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.079	0.103	0.106
PARTICULATE MATTER as PM10 (≤ 10 µm) ^a	mg/m ³	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.050	0.051	0.072
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) ^a	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE REVISED AS OF OCTOBER 15, 2021	30.8	27.2	37.4
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
* : SAMPLING FROM 10:00 HOUR ON JANUARY 12, 2025 TO 10:00 HOUR ON JANUARY 13, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 33.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg
** : SAMPLING FROM 10:00 HOUR ON JANUARY 13, 2025 TO 10:00 HOUR ON JANUARY 14, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 31.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg
*** : SAMPLING FROM 10:00 HOUR ON JANUARY 14, 2025 TO 10:00 HOUR ON JANUARY 15, 2025.
PM2.5 AMBIENT AIR TEMPERATURE IS 30.5 °C, BAROMETRIC PRESSURE IS 757.0 mmHg

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : ที่พักสงฆ์ณมิตร
SAMPLE TYPE : AMBIENT
SAMPLING DATE : * , ** , *** , ****
SAMPLING TIME : * , ** , *** , ****
SAMPLING BY : MR JIRAWAT SUKASEM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : JANUARY 21, 2025
ANALYTICAL DATE : JANUARY 21-24, 2025
ISSUE DATE : MAY 29, 2025
REPORT NO. : 2025-U046817
WORK NO. : 2025-003429
ANALYSIS NO. : T25AK713-0011 - T25AK713-0014

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			ที่พักสงฆ์ณมิตร			
			* T25AK713-0011	** T25AK713-0012	*** T25AK713-0013	**** T25AK713-0014
TOTAL SUSPENDED PARTICULATE MATTER ^a	mg/m ³	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.088	0.095	0.082	0.076
PARTICULATE MATTER as PM10 (≤ 10 µm) ^a	mg/m ³	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.062	0.054	0.041	0.043



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			ที่פקสงงนฤมิตร			
			* T25AK713-0011	** T25AK713-0012	*** T25AK713-0013	**** T25AK713-0014
FINE PARTICULATE MATTER as PM2.5 ($\leq 2.5 \mu\text{m}$) ^a	$\mu\text{g}/\text{m}^3$	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE REVISED AS OF OCTOBER 15, 2021	34.3	29.5	27.7	32.0
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.

* : SAMPLING FROM 10:00 HOUR ON JANUARY 15, 2025 TO 10:00 HOUR ON JANUARY 16, 2025.

PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 757.5 mmHg

** : SAMPLING FROM 10:00 HOUR ON JANUARY 16, 2025 TO 10:00 HOUR ON JANUARY 17, 2025.

PM2.5 AMBIENT AIR TEMPERATURE IS 31.0 °C, BAROMETRIC PRESSURE IS 757.0 mmHg

*** : SAMPLING FROM 10:00 HOUR ON JANUARY 17, 2025 TO 10:00 HOUR ON JANUARY 18, 2025.

PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 759.5 mmHg

**** : SAMPLING FROM 10:00 HOUR ON JANUARY 18, 2025 TO 10:00 HOUR ON JANUARY 19, 2025.

PM2.5 AMBIENT AIR TEMPERATURE IS 30.0 °C, BAROMETRIC PRESSURE IS 759.5 mmHg

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING PLACE : บ้านศิลาทอง
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : JANUARY 12-19, 2025
MEASURING TIME : *
MEASURING METHOD : CHEMILUMINESCENCE
MEASURED BY : MR JIRAWAT SUKKASEM

RECEIVED DATE : JANUARY 12-19, 2025
ANALYTICAL DATE : JANUARY 12-19, 2025
ISSUE DATE : JANUARY 28, 2025
REPORT NO. : 2025-U006636
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB233-0001 - T25AB233-0007

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บ้านศิลาทอง		
	JANUARY 12-13, 2025 T25AB233-0001	JANUARY 13-14, 2025 T25AB233-0002	JANUARY 14-15, 2025 T25AB233-0003
08:00-09:00 HOUR	0.0238	0.0217	0.0201
09:00-10:00 HOUR	0.0206	0.0195	0.0191
10:00-11:00 HOUR	0.0167	0.0153	0.0163
11:00-12:00 HOUR	0.0147	0.0145	0.0161
12:00-13:00 HOUR	0.0139	0.0145	0.0148
13:00-14:00 HOUR	0.0144	0.0148	0.0158
14:00-15:00 HOUR	0.0156	0.0170	0.0159
15:00-16:00 HOUR	0.0165	0.0181	0.0182
16:00-17:00 HOUR	0.0182	0.0206	0.0206
17:00-18:00 HOUR	0.0182	0.0201	0.0224
18:00-19:00 HOUR	0.0185	0.0211	0.0224
19:00-20:00 HOUR	0.0179	0.0208	0.0223
20:00-21:00 HOUR	0.0183	0.0216	0.0213
21:00-22:00 HOUR	0.0174	0.0205	0.0210
22:00-23:00 HOUR	0.0174	0.0208	0.0188
23:00-00:00 HOUR	0.0174	0.0191	0.0176
00:00-01:00 HOUR	0.0177	0.0177	0.0155
01:00-02:00 HOUR	0.0180	0.0157	0.0148
02:00-03:00 HOUR	0.0179	0.0150	0.0144
03:00-04:00 HOUR	0.0183	0.0147	0.0142
04:00-05:00 HOUR	0.0187	0.0156	0.0155
05:00-06:00 HOUR	0.0188	0.0188	0.0187
06:00-07:00 HOUR	0.0207	0.0208	0.0216
07:00-08:00 HOUR	0.0226	0.0224	0.0238



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	บ้านศิลาทอง			
	JANUARY 15-16, 2025 T25AB233-0004	JANUARY 16-17, 2025 T25AB233-0005	JANUARY 17-18, 2025 T25AB233-0006	JANUARY 18-19, 2025 T25AB233-0007
08:00-09:00 HOUR	0.0220	0.0218	0.0225	0.0211
09:00-10:00 HOUR	0.0204	0.0193	0.0193	0.0201
10:00-11:00 HOUR	0.0180	0.0149	0.0158	0.0164
11:00-12:00 HOUR	0.0164	0.0133	0.0145	0.0152
12:00-13:00 HOUR	0.0167	0.0134	0.0140	0.0147
13:00-14:00 HOUR	0.0159	0.0140	0.0142	0.0158
14:00-15:00 HOUR	0.0175	0.0145	0.0143	0.0171
15:00-16:00 HOUR	0.0174	0.0149	0.0154	0.0180
16:00-17:00 HOUR	0.0199	0.0172	0.0169	0.0188
17:00-18:00 HOUR	0.0205	0.0187	0.0187	0.0193
18:00-19:00 HOUR	0.0211	0.0197	0.0189	0.0195
19:00-20:00 HOUR	0.0210	0.0202	0.0202	0.0199
20:00-21:00 HOUR	0.0223	0.0204	0.0210	0.0204
21:00-22:00 HOUR	0.0236	0.0204	0.0210	0.0213
22:00-23:00 HOUR	0.0244	0.0191	0.0203	0.0218
23:00-00:00 HOUR	0.0232	0.0179	0.0190	0.0205
00:00-01:00 HOUR	0.0223	0.0169	0.0205	0.0198
01:00-02:00 HOUR	0.0199	0.0176	0.0192	0.0182
02:00-03:00 HOUR	0.0198	0.0189	0.0193	0.0181
03:00-04:00 HOUR	0.0191	0.0199	0.0177	0.0182
04:00-05:00 HOUR	0.0195	0.0193	0.0186	0.0190
05:00-06:00 HOUR	0.0202	0.0196	0.0200	0.0204
06:00-07:00 HOUR	0.0213	0.0215	0.0210	0.0203
07:00-08:00 HOUR	0.0232	0.0237	0.0227	0.0207

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING PLACE : บ้านทัพพน์
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : JANUARY 12-19, 2025
MEASURING TIME : *
MEASURING METHOD : CHEMILUMINESCENCE
MEASURED BY : MR JIRAWAT SUKKASEM

RECEIVED DATE : JANUARY 12-19, 2025
ANALYTICAL DATE : JANUARY 12-19, 2025
ISSUE DATE : JANUARY 28, 2025
REPORT NO. : 2025-U006637
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB233-0008 - T25AB233-0014

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บ้านทัพพน์		
	JANUARY 12-13, 2025 T25AB233-0008	JANUARY 13-14, 2025 T25AB233-0009	JANUARY 14-15, 2025 T25AB233-0010
08:00-09:00 HOUR	0.0187	0.0210	0.0205
09:00-10:00 HOUR	0.0168	0.0178	0.0186
10:00-11:00 HOUR	0.0131	0.0161	0.0159
11:00-12:00 HOUR	0.0119	0.0136	0.0139
12:00-13:00 HOUR	0.0121	0.0135	0.0130
13:00-14:00 HOUR	0.0124	0.0134	0.0134
14:00-15:00 HOUR	0.0138	0.0160	0.0145
15:00-16:00 HOUR	0.0149	0.0167	0.0174
16:00-17:00 HOUR	0.0165	0.0183	0.0191
17:00-18:00 HOUR	0.0172	0.0180	0.0201
18:00-19:00 HOUR	0.0189	0.0191	0.0199
19:00-20:00 HOUR	0.0203	0.0191	0.0192
20:00-21:00 HOUR	0.0206	0.0207	0.0205
21:00-22:00 HOUR	0.0187	0.0205	0.0193
22:00-23:00 HOUR	0.0176	0.0206	0.0201
23:00-00:00 HOUR	0.0177	0.0190	0.0182
00:00-01:00 HOUR	0.0181	0.0188	0.0191
01:00-02:00 HOUR	0.0177	0.0180	0.0195
02:00-03:00 HOUR	0.0172	0.0193	0.0198
03:00-04:00 HOUR	0.0182	0.0190	0.0196
04:00-05:00 HOUR	0.0189	0.0206	0.0187
05:00-06:00 HOUR	0.0196	0.0195	0.0202
06:00-07:00 HOUR	0.0215	0.0205	0.0201
07:00-08:00 HOUR	0.0214	0.0207	0.0204



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	บ้านทัพพิน			
	JANUARY 15-16, 2025 T25AB233-0011	JANUARY 16-17, 2025 T25AB233-0012	JANUARY 17-18, 2025 T25AB233-0013	JANUARY 18-19, 2025 T25AB233-0014
08:00-09:00 HOUR	0.0181	0.0201	0.0218	0.0200
09:00-10:00 HOUR	0.0165	0.0170	0.0194	0.0181
10:00-11:00 HOUR	0.0137	0.0140	0.0159	0.0143
11:00-12:00 HOUR	0.0133	0.0120	0.0127	0.0134
12:00-13:00 HOUR	0.0133	0.0122	0.0133	0.0129
13:00-14:00 HOUR	0.0137	0.0134	0.0130	0.0135
14:00-15:00 HOUR	0.0146	0.0156	0.0148	0.0151
15:00-16:00 HOUR	0.0156	0.0168	0.0141	0.0158
16:00-17:00 HOUR	0.0175	0.0189	0.0157	0.0179
17:00-18:00 HOUR	0.0185	0.0195	0.0158	0.0184
18:00-19:00 HOUR	0.0198	0.0206	0.0164	0.0193
19:00-20:00 HOUR	0.0202	0.0211	0.0168	0.0200
20:00-21:00 HOUR	0.0195	0.0222	0.0169	0.0206
21:00-22:00 HOUR	0.0179	0.0222	0.0162	0.0205
22:00-23:00 HOUR	0.0163	0.0218	0.0153	0.0196
23:00-00:00 HOUR	0.0170	0.0211	0.0151	0.0182
00:00-01:00 HOUR	0.0167	0.0208	0.0151	0.0171
01:00-02:00 HOUR	0.0170	0.0204	0.0164	0.0161
02:00-03:00 HOUR	0.0154	0.0196	0.0178	0.0154
03:00-04:00 HOUR	0.0149	0.0185	0.0194	0.0153
04:00-05:00 HOUR	0.0148	0.0185	0.0192	0.0143
05:00-06:00 HOUR	0.0167	0.0181	0.0191	0.0150
06:00-07:00 HOUR	0.0193	0.0201	0.0199	0.0147
07:00-08:00 HOUR	0.0205	0.0212	0.0215	0.0169

Sila Banjongjairuk

(MR. SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JANUARY 12-19, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JANUARY 12-19, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: MAY 20, 2025
MEASURING PLACE	: วัดห้วยผึ้งน้อย	REPORT NO.	: 2025-U043769
MEASURING TYPE	: AMBIENT (AIR)	WORK NO.	: 2025-003429
MEASURING DATE	: JANUARY 12-19, 2025	ANALYSIS NO.	: T25AK713-0001 - T25AK713-0007
MEASURING TIME	: *		
MEASURING METHOD	: CHEMILUMINESCENCE		
MEASURED BY	: MR. JIRAWAT SUKKASEM		

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	วัดห้วยผึ้งน้อย		
	JANUARY 12-13, 2025 T25AK713-0001	JANUARY 13-14, 2025 T25AK713-0002	JANUARY 14-15, 2025 T25AK713-0003
08:00-09:00 HOUR	0.0150	0.0170	0.0158
09:00-10:00 HOUR	0.0138	0.0157	0.0146
10:00-11:00 HOUR	0.0120	0.0133	0.0118
11:00-12:00 HOUR	0.0117	0.0123	0.0112
12:00-13:00 HOUR	0.0128	0.0120	0.0115
13:00-14:00 HOUR	0.0133	0.0130	0.0119
14:00-15:00 HOUR	0.0150	0.0145	0.0134
15:00-16:00 HOUR	0.0151	0.0147	0.0135
16:00-17:00 HOUR	0.0161	0.0153	0.0154
17:00-18:00 HOUR	0.0157	0.0147	0.0157
18:00-19:00 HOUR	0.0161	0.0163	0.0166
19:00-20:00 HOUR	0.0155	0.0159	0.0166
20:00-21:00 HOUR	0.0163	0.0159	0.0172
21:00-22:00 HOUR	0.0169	0.0151	0.0169
22:00-23:00 HOUR	0.0185	0.0161	0.0177
23:00-00:00 HOUR	0.0179	0.0165	0.0164
00:00-01:00 HOUR	0.0176	0.0161	0.0157
01:00-02:00 HOUR	0.0160	0.0157	0.0146
02:00-03:00 HOUR	0.0151	0.0153	0.0149
03:00-04:00 HOUR	0.0135	0.0153	0.0150
04:00-05:00 HOUR	0.0138	0.0148	0.0148
05:00-06:00 HOUR	0.0141	0.0146	0.0149
06:00-07:00 HOUR	0.0158	0.0150	0.0151
07:00-08:00 HOUR	0.0167	0.0163	0.0155



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	วัดหับผึ้งน้อย			
	JANUARY 15-16, 2025 T25AK713-0004	JANUARY 16-17, 2025 T25AK713-0005	JANUARY 17-18, 2025 T25AK713-0006	JANUARY 18-19, 2025 T25AK713-0007
08:00-09:00 HOUR	0.0152	0.0155	0.0166	0.0160
09:00-10:00 HOUR	0.0146	0.0151	0.0149	0.0140
10:00-11:00 HOUR	0.0126	0.0142	0.0128	0.0125
11:00-12:00 HOUR	0.0111	0.0133	0.0117	0.0111
12:00-13:00 HOUR	0.0113	0.0130	0.0124	0.0115
13:00-14:00 HOUR	0.0121	0.0131	0.0132	0.0117
14:00-15:00 HOUR	0.0129	0.0148	0.0145	0.0129
15:00-16:00 HOUR	0.0132	0.0141	0.0146	0.0128
16:00-17:00 HOUR	0.0153	0.0150	0.0152	0.0141
17:00-18:00 HOUR	0.0166	0.0148	0.0155	0.0139
18:00-19:00 HOUR	0.0170	0.0155	0.0160	0.0141
19:00-20:00 HOUR	0.0162	0.0159	0.0159	0.0139
20:00-21:00 HOUR	0.0154	0.0169	0.0165	0.0139
21:00-22:00 HOUR	0.0158	0.0177	0.0168	0.0146
22:00-23:00 HOUR	0.0156	0.0183	0.0173	0.0149
23:00-00:00 HOUR	0.0166	0.0167	0.0168	0.0152
00:00-01:00 HOUR	0.0159	0.0163	0.0163	0.0146
01:00-02:00 HOUR	0.0156	0.0150	0.0156	0.0140
02:00-03:00 HOUR	0.0144	0.0154	0.0161	0.0138
03:00-04:00 HOUR	0.0142	0.0146	0.0151	0.0137
04:00-05:00 HOUR	0.0140	0.0141	0.0147	0.0138
05:00-06:00 HOUR	0.0143	0.0137	0.0145	0.0141
06:00-07:00 HOUR	0.0152	0.0153	0.0160	0.0143
07:00-08:00 HOUR	0.0156	0.0166	0.0166	0.0143

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING PLACE : ที่พักสงฆ์ณมิตร
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : JANUARY 12-19, 2025
MEASURING TIME : *
MEASURING METHOD : CHEMILUMINESCENCE
MEASURED BY : MR JIRAWAT SUKKASEM

RECEIVED DATE : JANUARY 12-19, 2025
ANALYTICAL DATE : JANUARY 12-19, 2025
ISSUE DATE : MAY 20, 2025
REPORT NO. : 2025-U043770
WORK NO. : 2025-003429
ANALYSIS NO. : T25AK713-0008 - T25AK713-0014

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	ที่พักสงฆ์ณมิตร		
	JANUARY 12-13, 2025 T25AK713-0008	JANUARY 13-14, 2025 T25AK713-0009	JANUARY 14-15, 2025 T25AK713-0010
08:00-09:00 HOUR	0.0161	0.0168	0.0176
09:00-10:00 HOUR	0.0156	0.0146	0.0157
10:00-11:00 HOUR	0.0137	0.0116	0.0123
11:00-12:00 HOUR	0.0137	0.0107	0.0102
12:00-13:00 HOUR	0.0128	0.0116	0.0111
13:00-14:00 HOUR	0.0126	0.0112	0.0117
14:00-15:00 HOUR	0.0132	0.0121	0.0127
15:00-16:00 HOUR	0.0147	0.0126	0.0131
16:00-17:00 HOUR	0.0162	0.0146	0.0147
17:00-18:00 HOUR	0.0172	0.0165	0.0151
18:00-19:00 HOUR	0.0174	0.0171	0.0154
19:00-20:00 HOUR	0.0173	0.0176	0.0163
20:00-21:00 HOUR	0.0169	0.0168	0.0166
21:00-22:00 HOUR	0.0166	0.0166	0.0177
22:00-23:00 HOUR	0.0161	0.0169	0.0171
23:00-00:00 HOUR	0.0153	0.0157	0.0176
00:00-01:00 HOUR	0.0143	0.0152	0.0160
01:00-02:00 HOUR	0.0143	0.0134	0.0148
02:00-03:00 HOUR	0.0150	0.0132	0.0140
03:00-04:00 HOUR	0.0161	0.0125	0.0141
04:00-05:00 HOUR	0.0167	0.0127	0.0140
05:00-06:00 HOUR	0.0176	0.0135	0.0145
06:00-07:00 HOUR	0.0175	0.0149	0.0153
07:00-08:00 HOUR	0.0185	0.0170	0.0165



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	ที่พักสงฆ์ณฤมิตร			
	JANUARY 15-16, 2025 T25AK713-0011	JANUARY 16-17, 2025 T25AK713-0012	JANUARY 17-18, 2025 T25AK713-0013	JANUARY 18-19, 2025 T25AK713-0014
08:00-09:00 HOUR	0.0154	0.0175	0.0156	0.0170
09:00-10:00 HOUR	0.0136	0.0147	0.0145	0.0154
10:00-11:00 HOUR	0.0113	0.0122	0.0132	0.0129
11:00-12:00 HOUR	0.0105	0.0112	0.0131	0.0116
12:00-13:00 HOUR	0.0109	0.0119	0.0123	0.0115
13:00-14:00 HOUR	0.0112	0.0128	0.0123	0.0114
14:00-15:00 HOUR	0.0119	0.0132	0.0135	0.0122
15:00-16:00 HOUR	0.0123	0.0137	0.0147	0.0129
16:00-17:00 HOUR	0.0147	0.0160	0.0153	0.0151
17:00-18:00 HOUR	0.0155	0.0177	0.0156	0.0155
18:00-19:00 HOUR	0.0165	0.0187	0.0152	0.0164
19:00-20:00 HOUR	0.0156	0.0176	0.0159	0.0158
20:00-21:00 HOUR	0.0161	0.0175	0.0168	0.0159
21:00-22:00 HOUR	0.0162	0.0173	0.0163	0.0154
22:00-23:00 HOUR	0.0167	0.0181	0.0154	0.0153
23:00-00:00 HOUR	0.0164	0.0177	0.0143	0.0145
00:00-01:00 HOUR	0.0159	0.0172	0.0144	0.0136
01:00-02:00 HOUR	0.0151	0.0165	0.0146	0.0135
02:00-03:00 HOUR	0.0146	0.0168	0.0158	0.0136
03:00-04:00 HOUR	0.0147	0.0164	0.0166	0.0130
04:00-05:00 HOUR	0.0149	0.0157	0.0180	0.0127
05:00-06:00 HOUR	0.0150	0.0155	0.0179	0.0132
06:00-07:00 HOUR	0.0166	0.0167	0.0182	0.0141
07:00-08:00 HOUR	0.0176	0.0174	0.0178	0.0148

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING PLACE : บ้านคิลาทอง
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : JANUARY 12-19, 2025
MEASURING TIME : *
MEASURING METHOD : UV FLUORESCENCE
MEASURED BY : MR JIRAWAT SUKKASEM

RECEIVED DATE : JANUARY 12-19, 2025
ANALYTICAL DATE : JANUARY 12-19, 2025
ISSUE DATE : JANUARY 28, 2025
REPORT NO. : 2025-U006638
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB233-0001 - T25AB233-0007

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	บ้านคิลาทอง		
	JANUARY 12-13, 2025 T25AB233-0001	JANUARY 13-14, 2025 T25AB233-0002	JANUARY 14-15, 2025 T25AB233-0003
08:00-09:00 HOUR	0.0044	0.0050	0.0035
09:00-10:00 HOUR	0.0039	0.0047	0.0031
10:00-11:00 HOUR	0.0037	0.0041	0.0033
11:00-12:00 HOUR	0.0036	0.0042	0.0037
12:00-13:00 HOUR	0.0039	0.0046	0.0039
13:00-14:00 HOUR	0.0047	0.0048	0.0044
14:00-15:00 HOUR	0.0051	0.0049	0.0046
15:00-16:00 HOUR	0.0057	0.0045	0.0055
16:00-17:00 HOUR	0.0054	0.0043	0.0061
17:00-18:00 HOUR	0.0060	0.0042	0.0065
18:00-19:00 HOUR	0.0059	0.0046	0.0059
19:00-20:00 HOUR	0.0065	0.0050	0.0054
20:00-21:00 HOUR	0.0060	0.0051	0.0054
21:00-22:00 HOUR	0.0059	0.0048	0.0057
22:00-23:00 HOUR	0.0058	0.0042	0.0053
23:00-00:00 HOUR	0.0059	0.0039	0.0049
00:00-01:00 HOUR	0.0062	0.0035	0.0045
01:00-02:00 HOUR	0.0058	0.0037	0.0043
02:00-03:00 HOUR	0.0061	0.0038	0.0042
03:00-04:00 HOUR	0.0061	0.0042	0.0043
04:00-05:00 HOUR	0.0058	0.0046	0.0050
05:00-06:00 HOUR	0.0052	0.0047	0.0055
06:00-07:00 HOUR	0.0049	0.0045	0.0054
07:00-08:00 HOUR	0.0054	0.0038	0.0049
AVERAGE 24 HOUR	0.0053	0.0044	0.0048



TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	บ้านคิลาทอง			
	JANUARY 15-16, 2025 T25AB233-0004	JANUARY 16-17, 2025 T25AB233-0005	JANUARY 17-18, 2025 T25AB233-0006	JANUARY 18-19, 2025 T25AB233-0007
08:00-09:00 HOUR	0.0044	0.0047	0.0040	0.0046
09:00-10:00 HOUR	0.0043	0.0044	0.0037	0.0042
10:00-11:00 HOUR	0.0041	0.0038	0.0038	0.0036
11:00-12:00 HOUR	0.0042	0.0035	0.0039	0.0035
12:00-13:00 HOUR	0.0042	0.0041	0.0039	0.0039
13:00-14:00 HOUR	0.0041	0.0046	0.0039	0.0047
14:00-15:00 HOUR	0.0043	0.0056	0.0042	0.0050
15:00-16:00 HOUR	0.0044	0.0059	0.0045	0.0053
16:00-17:00 HOUR	0.0049	0.0058	0.0048	0.0052
17:00-18:00 HOUR	0.0052	0.0056	0.0051	0.0055
18:00-19:00 HOUR	0.0055	0.0057	0.0053	0.0059
19:00-20:00 HOUR	0.0054	0.0061	0.0050	0.0057
20:00-21:00 HOUR	0.0055	0.0060	0.0046	0.0054
21:00-22:00 HOUR	0.0060	0.0057	0.0043	0.0048
22:00-23:00 HOUR	0.0060	0.0053	0.0046	0.0048
23:00-00:00 HOUR	0.0060	0.0051	0.0053	0.0046
00:00-01:00 HOUR	0.0056	0.0047	0.0056	0.0044
01:00-02:00 HOUR	0.0062	0.0046	0.0054	0.0045
02:00-03:00 HOUR	0.0063	0.0043	0.0052	0.0050
03:00-04:00 HOUR	0.0059	0.0047	0.0049	0.0054
04:00-05:00 HOUR	0.0053	0.0049	0.0052	0.0054
05:00-06:00 HOUR	0.0046	0.0053	0.0054	0.0055
06:00-07:00 HOUR	0.0045	0.0051	0.0054	0.0054
07:00-08:00 HOUR	0.0046	0.0046	0.0052	0.0061
AVERAGE 24 HOUR	0.0051	0.0050	0.0047	0.0049

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING PLACE : บ้านทัพพนัน
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : JANUARY 12-19, 2025
MEASURING TIME : *
MEASURING METHOD : UV FLUORESCENCE
MEASURED BY : MR JIRAWAT SUKKASEM

RECEIVED DATE : JANUARY 12-19, 2025
ANALYTICAL DATE : JANUARY 12-19, 2025
ISSUE DATE : JANUARY 28, 2025
REPORT NO. : 2025-U006639
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB233-0008 - T25AB233-0014

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	บ้านทัพพนัน		
	JANUARY 12-13, 2025 T25AB233-0008	JANUARY 13-14, 2025 T25AB233-0009	JANUARY 14-15, 2025 T25AB233-0010
08:00-09:00 HOUR	0.0051	0.0043	0.0040
09:00-10:00 HOUR	0.0047	0.0040	0.0041
10:00-11:00 HOUR	0.0046	0.0036	0.0043
11:00-12:00 HOUR	0.0046	0.0032	0.0044
12:00-13:00 HOUR	0.0045	0.0033	0.0045
13:00-14:00 HOUR	0.0048	0.0034	0.0048
14:00-15:00 HOUR	0.0053	0.0040	0.0052
15:00-16:00 HOUR	0.0060	0.0041	0.0053
16:00-17:00 HOUR	0.0063	0.0048	0.0057
17:00-18:00 HOUR	0.0058	0.0047	0.0055
18:00-19:00 HOUR	0.0055	0.0055	0.0058
19:00-20:00 HOUR	0.0050	0.0055	0.0052
20:00-21:00 HOUR	0.0051	0.0057	0.0055
21:00-22:00 HOUR	0.0054	0.0056	0.0049
22:00-23:00 HOUR	0.0052	0.0050	0.0049
23:00-00:00 HOUR	0.0052	0.0047	0.0043
00:00-01:00 HOUR	0.0052	0.0044	0.0049
01:00-02:00 HOUR	0.0057	0.0042	0.0051
02:00-03:00 HOUR	0.0056	0.0045	0.0053
03:00-04:00 HOUR	0.0056	0.0043	0.0047
04:00-05:00 HOUR	0.0058	0.0045	0.0050
05:00-06:00 HOUR	0.0055	0.0046	0.0051
06:00-07:00 HOUR	0.0050	0.0046	0.0057
07:00-08:00 HOUR	0.0044	0.0044	0.0055
AVERAGE 24 HOUR	0.0052	0.0045	0.0050



TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	บ้านทัพพ่น			
	JANUARY 15-16, 2025 T25AB233-0011	JANUARY 16-17, 2025 T25AB233-0012	JANUARY 17-18, 2025 T25AB233-0013	JANUARY 18-19, 2025 T25AB233-0014
08:00-09:00 HOUR	0.0054	0.0051	0.0046	0.0048
09:00-10:00 HOUR	0.0047	0.0046	0.0040	0.0042
10:00-11:00 HOUR	0.0043	0.0045	0.0036	0.0038
11:00-12:00 HOUR	0.0041	0.0044	0.0040	0.0041
12:00-13:00 HOUR	0.0036	0.0048	0.0040	0.0046
13:00-14:00 HOUR	0.0039	0.0050	0.0045	0.0047
14:00-15:00 HOUR	0.0040	0.0052	0.0047	0.0051
15:00-16:00 HOUR	0.0043	0.0055	0.0051	0.0049
16:00-17:00 HOUR	0.0048	0.0056	0.0050	0.0052
17:00-18:00 HOUR	0.0049	0.0056	0.0051	0.0053
18:00-19:00 HOUR	0.0055	0.0053	0.0050	0.0053
19:00-20:00 HOUR	0.0057	0.0051	0.0052	0.0050
20:00-21:00 HOUR	0.0065	0.0048	0.0050	0.0048
21:00-22:00 HOUR	0.0062	0.0045	0.0050	0.0050
22:00-23:00 HOUR	0.0057	0.0045	0.0051	0.0050
23:00-00:00 HOUR	0.0052	0.0048	0.0051	0.0047
00:00-01:00 HOUR	0.0049	0.0049	0.0052	0.0044
01:00-02:00 HOUR	0.0050	0.0046	0.0054	0.0045
02:00-03:00 HOUR	0.0045	0.0045	0.0050	0.0045
03:00-04:00 HOUR	0.0051	0.0046	0.0053	0.0047
04:00-05:00 HOUR	0.0050	0.0050	0.0056	0.0046
05:00-06:00 HOUR	0.0054	0.0051	0.0060	0.0051
06:00-07:00 HOUR	0.0053	0.0055	0.0058	0.0051
07:00-08:00 HOUR	0.0053	0.0051	0.0053	0.0060
AVERAGE 24 HOUR	0.0050	0.0049	0.0049	0.0048

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JANUARY 12-19, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JANUARY 12-19, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: MAY 20, 2025
MEASURING PLACE	: วัดห้วยผึ้งน้อย	REPORT NO.	: 2025-U043771
MEASURING TYPE	: AMBIENT (AIR)	WORK NO.	: 2025-003429
MEASURING DATE	: JANUARY 12-19, 2025	ANALYSIS NO.	: T25AK713-0001 - T25AK713-0007
MEASURING TIME	: *		
MEASURING METHOD	: UV FLUORESCENCE		
MEASURED BY	: MR JIRAWAT SUKKASEM		

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	วัดห้วยผึ้งน้อย		
	JANUARY 12-13, 2025 T25AK713-0001	JANUARY 13-14, 2025 T25AK713-0002	JANUARY 14-15, 2025 T25AK713-0003
08:00-09:00 HOUR	0.0049	0.0054	0.0048
09:00-10:00 HOUR	0.0044	0.0047	0.0047
10:00-11:00 HOUR	0.0042	0.0043	0.0047
11:00-12:00 HOUR	0.0044	0.0044	0.0046
12:00-13:00 HOUR	0.0047	0.0043	0.0051
13:00-14:00 HOUR	0.0045	0.0043	0.0054
14:00-15:00 HOUR	0.0047	0.0045	0.0060
15:00-16:00 HOUR	0.0047	0.0048	0.0059
16:00-17:00 HOUR	0.0052	0.0048	0.0064
17:00-18:00 HOUR	0.0048	0.0046	0.0059
18:00-19:00 HOUR	0.0049	0.0049	0.0059
19:00-20:00 HOUR	0.0047	0.0051	0.0051
20:00-21:00 HOUR	0.0049	0.0052	0.0054
21:00-22:00 HOUR	0.0047	0.0054	0.0056
22:00-23:00 HOUR	0.0046	0.0052	0.0062
23:00-00:00 HOUR	0.0042	0.0051	0.0057
00:00-01:00 HOUR	0.0041	0.0048	0.0055
01:00-02:00 HOUR	0.0040	0.0047	0.0047
02:00-03:00 HOUR	0.0045	0.0043	0.0052
03:00-04:00 HOUR	0.0050	0.0044	0.0054
04:00-05:00 HOUR	0.0057	0.0047	0.0057
05:00-06:00 HOUR	0.0054	0.0052	0.0055
06:00-07:00 HOUR	0.0057	0.0049	0.0053
07:00-08:00 HOUR	0.0054	0.0050	0.0050
AVERAGE 24 HOUR	0.0048	0.0048	0.0054



TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	วัดหีบผึ้งน้อย			
	JANUARY 15-16, 2025 T25AK713-0004	JANUARY 16-17, 2025 T25AK713-0005	JANUARY 17-18, 2025 T25AK713-0006	JANUARY 18-19, 2025 T25AK713-0007
08:00-09:00 HOUR	0.0048	0.0051	0.0047	0.0055
09:00-10:00 HOUR	0.0047	0.0049	0.0041	0.0052
10:00-11:00 HOUR	0.0045	0.0046	0.0038	0.0046
11:00-12:00 HOUR	0.0040	0.0047	0.0039	0.0045
12:00-13:00 HOUR	0.0039	0.0049	0.0038	0.0046
13:00-14:00 HOUR	0.0043	0.0052	0.0044	0.0049
14:00-15:00 HOUR	0.0050	0.0052	0.0052	0.0052
15:00-16:00 HOUR	0.0051	0.0048	0.0062	0.0056
16:00-17:00 HOUR	0.0055	0.0049	0.0060	0.0058
17:00-18:00 HOUR	0.0056	0.0052	0.0060	0.0055
18:00-19:00 HOUR	0.0055	0.0056	0.0057	0.0053
19:00-20:00 HOUR	0.0051	0.0058	0.0059	0.0050
20:00-21:00 HOUR	0.0048	0.0054	0.0058	0.0050
21:00-22:00 HOUR	0.0046	0.0052	0.0058	0.0045
22:00-23:00 HOUR	0.0043	0.0046	0.0057	0.0042
23:00-00:00 HOUR	0.0037	0.0043	0.0053	0.0039
00:00-01:00 HOUR	0.0038	0.0036	0.0052	0.0044
01:00-02:00 HOUR	0.0036	0.0036	0.0052	0.0051
02:00-03:00 HOUR	0.0038	0.0037	0.0055	0.0055
03:00-04:00 HOUR	0.0042	0.0042	0.0055	0.0055
04:00-05:00 HOUR	0.0050	0.0052	0.0059	0.0057
05:00-06:00 HOUR	0.0053	0.0052	0.0062	0.0053
06:00-07:00 HOUR	0.0053	0.0057	0.0062	0.0053
07:00-08:00 HOUR	0.0049	0.0050	0.0060	0.0045
AVERAGE 24 HOUR	0.0046	0.0049	0.0053	0.0050

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JANUARY 12-19, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JANUARY 12-19, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: MAY 20, 2025
MEASURING PLACE	: ที่พักสงฆ์ณมิตร	REPORT NO.	: 2025-U043772
MEASURING TYPE	: AMBIENT (AIR)	WORK NO.	: 2025-003429
MEASURING DATE	: JANUARY 12-19, 2025	ANALYSIS NO.	: T25AK713-0008 - T25AK713-0014
MEASURING TIME	: *		
MEASURING METHOD	: UV FLUORESCENCE		
MEASURED BY	: MR JIRAWAT SUKKASEM		

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	ที่พักสงฆ์ณมิตร		
	JANUARY 12-13, 2025 T25AK713-0008	JANUARY 13-14, 2025 T25AK713-0009	JANUARY 14-15, 2025 T25AK713-0010
08:00-09:00 HOUR	0.0042	0.0038	0.0033
09:00-10:00 HOUR	0.0039	0.0038	0.0032
10:00-11:00 HOUR	0.0037	0.0034	0.0032
11:00-12:00 HOUR	0.0035	0.0034	0.0036
12:00-13:00 HOUR	0.0036	0.0035	0.0036
13:00-14:00 HOUR	0.0036	0.0040	0.0038
14:00-15:00 HOUR	0.0043	0.0042	0.0042
15:00-16:00 HOUR	0.0044	0.0042	0.0047
16:00-17:00 HOUR	0.0046	0.0045	0.0051
17:00-18:00 HOUR	0.0047	0.0047	0.0049
18:00-19:00 HOUR	0.0048	0.0048	0.0048
19:00-20:00 HOUR	0.0047	0.0043	0.0048
20:00-21:00 HOUR	0.0040	0.0039	0.0046
21:00-22:00 HOUR	0.0038	0.0034	0.0047
22:00-23:00 HOUR	0.0037	0.0035	0.0049
23:00-00:00 HOUR	0.0040	0.0034	0.0051
00:00-01:00 HOUR	0.0038	0.0037	0.0050
01:00-02:00 HOUR	0.0037	0.0038	0.0046
02:00-03:00 HOUR	0.0037	0.0038	0.0046
03:00-04:00 HOUR	0.0042	0.0038	0.0048
04:00-05:00 HOUR	0.0043	0.0036	0.0048
05:00-06:00 HOUR	0.0045	0.0039	0.0046
06:00-07:00 HOUR	0.0042	0.0038	0.0041
07:00-08:00 HOUR	0.0042	0.0037	0.0039
AVERAGE 24 HOUR	0.0041	0.0039	0.0044



TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	ที่פקสงชนฤมิตร			
	JANUARY 15-16, 2025 T25AK713-0011	JANUARY 16-17, 2025 T25AK713-0012	JANUARY 17-18, 2025 T25AK713-0013	JANUARY 18-19, 2025 T25AK713-0014
08:00-09:00 HOUR	0.0037	0.0039	0.0043	0.0039
09:00-10:00 HOUR	0.0035	0.0037	0.0038	0.0037
10:00-11:00 HOUR	0.0033	0.0035	0.0036	0.0033
11:00-12:00 HOUR	0.0034	0.0037	0.0035	0.0034
12:00-13:00 HOUR	0.0032	0.0039	0.0036	0.0038
13:00-14:00 HOUR	0.0038	0.0038	0.0038	0.0040
14:00-15:00 HOUR	0.0040	0.0038	0.0042	0.0040
15:00-16:00 HOUR	0.0047	0.0040	0.0050	0.0042
16:00-17:00 HOUR	0.0045	0.0045	0.0051	0.0050
17:00-18:00 HOUR	0.0048	0.0052	0.0050	0.0053
18:00-19:00 HOUR	0.0048	0.0057	0.0045	0.0055
19:00-20:00 HOUR	0.0049	0.0056	0.0046	0.0052
20:00-21:00 HOUR	0.0050	0.0049	0.0045	0.0052
21:00-22:00 HOUR	0.0050	0.0049	0.0042	0.0046
22:00-23:00 HOUR	0.0051	0.0051	0.0038	0.0040
23:00-00:00 HOUR	0.0048	0.0052	0.0037	0.0034
00:00-01:00 HOUR	0.0046	0.0047	0.0040	0.0036
01:00-02:00 HOUR	0.0046	0.0043	0.0043	0.0037
02:00-03:00 HOUR	0.0045	0.0042	0.0042	0.0043
03:00-04:00 HOUR	0.0043	0.0042	0.0045	0.0042
04:00-05:00 HOUR	0.0043	0.0045	0.0046	0.0043
05:00-06:00 HOUR	0.0047	0.0049	0.0046	0.0044
06:00-07:00 HOUR	0.0046	0.0051	0.0041	0.0047
07:00-08:00 HOUR	0.0046	0.0046	0.0041	0.0053
AVERAGE 24 HOUR	0.0044	0.0045	0.0042	0.0043

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ภาคผนวก ค4

รายงานผลการติดตามตรวจสอบความเร็วและทิศทางการ

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING PLACE : บ้านศิลาทอง
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : JANUARY 12-19, 2025
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR JIRAWAT SUKKASEM

RECEIVED DATE : JANUARY 12-19, 2025
ANALYTICAL DATE : JANUARY 12-19, 2025
ISSUE DATE : JANUARY 28, 2025
REPORT NO. : 2025-U006640
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB233-0001 - T25AB233-0007

TIME *	RESULT (m/s)					
	บ้านศิลาทอง					
	JANUARY 12-13, 2025 T25AB233-0001		JANUARY 13-14, 2025 T25AB233-0002		JANUARY 14-15, 2025 T25AB233-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.4	N	1.5	NW	1.7	ENE
08:00-09:00 HOUR	1.9	NNE	1.5	NE	2.2	NE
09:00-10:00 HOUR	2.3	NNW	2.4	N	1.6	NNE
10:00-11:00 HOUR	2.3	NNE	2.6	NNE	1.5	NNW
11:00-12:00 HOUR	2.6	NNE	2.5	N	1.9	NE
12:00-13:00 HOUR	2.2	NW	1.8	NNE	1.8	N
13:00-14:00 HOUR	2.1	NNW	2.0	NNW	3.1	NNE
14:00-15:00 HOUR	2.1	N	1.4	ENE	2.8	NE
15:00-16:00 HOUR	1.6	N	1.4	NNW	2.4	NE
16:00-17:00 HOUR	2.2	NNE	1.3	NNE	2.0	NE
17:00-18:00 HOUR	1.9	NW	0.9	N	1.5	N
18:00-19:00 HOUR	1.9	NW	0.8	ESE	2.0	ENE
19:00-20:00 HOUR	1.6	N	0.9	ENE	1.8	N
20:00-21:00 HOUR	1.6	NNW	1.0	E	1.6	NNE
21:00-22:00 HOUR	1.8	NNE	0.8	ENE	2.3	NNE
22:00-23:00 HOUR	2.2	WNW	1.0	ENE	2.0	NNW
23:00-00:00 HOUR	1.7	N	0.9	NNE	1.7	NNW
00:00-01:00 HOUR	2.4	N	1.3	E	1.9	NNE
01:00-02:00 HOUR	2.1	NW	1.9	ENE	2.3	NNW
02:00-03:00 HOUR	2.1	N	1.7	ENE	2.0	NNW
03:00-04:00 HOUR	2.3	N	2.5	N	1.7	NE
04:00-05:00 HOUR	1.6	NNW	2.8	N	1.5	NE
05:00-06:00 HOUR	1.4	N	2.5	N	2.0	NE
06:00-07:00 HOUR	1.7	N	2.9	NNW	2.1	N



TIME *	RESULT (m/s)							
	บันทึกผลการทดลอง							
	JANUARY 15-16, 2025		JANUARY 16-17, 2025		JANUARY 17-18, 2025		JANUARY 18-19, 2025	
	T25AB233-0004		T25AB233-0005		T25AB233-0006		T25AB233-0007	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.0	NNW	1.7	E	2.2	NW	2.5	NW
08:00-09:00 HOUR	1.6	N	1.5	ENE	2.7	NNW	2.3	NE
09:00-10:00 HOUR	2.3	NNW	1.6	ENE	3.2	NNW	2.5	N
10:00-11:00 HOUR	2.0	N	1.9	NE	2.2	NW	1.9	N
11:00-12:00 HOUR	2.1	E	1.7	NNE	3.1	WNW	2.3	NNE
12:00-13:00 HOUR	2.4	ESE	2.3	NNE	3.4	ENE	1.3	NW
13:00-14:00 HOUR	1.9	ESE	2.1	NE	3.4	NNW	1.4	WNW
14:00-15:00 HOUR	1.6	NE	1.7	NE	2.4	N	1.0	WNW
15:00-16:00 HOUR	1.1	NE	2.5	NE	1.8	NE	1.2	WNW
16:00-17:00 HOUR	0.8	N	1.8	ENE	2.0	NNW	1.2	WNW
17:00-18:00 HOUR	1.1	NNE	2.1	NE	1.5	NNW	1.0	WNW
18:00-19:00 HOUR	1.2	WNW	2.6	NNE	1.2	NW	1.0	N
19:00-20:00 HOUR	1.1	WNW	3.1	NE	1.4	W	1.2	N
20:00-21:00 HOUR	1.5	W	2.7	NNE	0.9	NW	0.9	NW
21:00-22:00 HOUR	1.4	NW	2.7	E	1.0	WNW	1.2	NNE
22:00-23:00 HOUR	2.2	NNE	2.1	E	1.1	N	1.2	NNE
23:00-00:00 HOUR	1.8	NE	2.4	E	1.3	W	1.2	NNW
00:00-01:00 HOUR	2.4	NW	2.4	NE	2.0	NW	1.0	ENE
01:00-02:00 HOUR	2.0	N	2.2	NW	2.3	W	1.3	NNE
02:00-03:00 HOUR	2.1	NW	2.1	N	1.7	N	1.3	NE
03:00-04:00 HOUR	2.2	NW	2.1	WSW	1.9	WNW	1.6	E
04:00-05:00 HOUR	1.9	N	2.3	W	2.4	NW	1.5	ENE
05:00-06:00 HOUR	1.4	NE	3.2	W	2.8	NNW	1.8	E
06:00-07:00 HOUR	2.3	NE	2.3	N	3.0	NE	2.2	SE

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ISO 9001:2015 CERTIFIED

ISO 14001:2015 CERTIFIED

BY BSI GROUP (THAILAND) CO.,LTD.

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• THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING PLACE : บ้านทัพพนัน
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : JANUARY 12-19, 2025
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR JIRAWAT SUKKASEM

RECEIVED DATE : JANUARY 12-19, 2025
ANALYTICAL DATE : JANUARY 12-19, 2025
ISSUE DATE : JANUARY 28, 2025
REPORT NO. : 2025-U006641
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB233-0008 - T25AB233-0014

TIME *	RESULT (m/s)					
	บ้านทัพพนัน					
	JANUARY 12-13, 2025 T25AB233-0008		JANUARY 13-14, 2025 T25AB233-0009		JANUARY 14-15, 2025 T25AB233-0010	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.0	NE	1.6	W	2.3	NE
08:00-09:00 HOUR	1.3	NE	1.8	WNW	2.6	NE
09:00-10:00 HOUR	1.4	NE	1.4	NNW	2.2	N
10:00-11:00 HOUR	2.3	NW	2.1	NE	2.5	ENE
11:00-12:00 HOUR	1.7	NW	2.3	NE	2.8	ENE
12:00-13:00 HOUR	1.7	NNW	1.9	N	3.0	NNE
13:00-14:00 HOUR	1.7	NNE	2.0	ENE	3.0	NE
14:00-15:00 HOUR	1.5	SE	2.4	N	3.1	E
15:00-16:00 HOUR	2.0	E	2.3	N	2.2	E
16:00-17:00 HOUR	1.8	E	2.0	NE	2.2	ESE
17:00-18:00 HOUR	1.8	N	2.0	NNW	2.5	NE
18:00-19:00 HOUR	2.2	ENE	2.1	NNE	2.4	NNE
19:00-20:00 HOUR	2.0	NNE	1.6	NNW	2.2	NNE
20:00-21:00 HOUR	1.9	NNE	2.2	NNW	2.7	NNE
21:00-22:00 HOUR	2.0	N	1.9	WNW	2.1	NNE
22:00-23:00 HOUR	1.9	NW	1.9	WNW	2.0	N
23:00-00:00 HOUR	1.6	NNW	1.5	NNW	1.7	NNE
00:00-01:00 HOUR	1.9	N	1.9	NNW	1.9	NNE
01:00-02:00 HOUR	1.9	N	2.2	NW	1.5	NE
02:00-03:00 HOUR	1.9	N	1.8	NE	2.2	NE
03:00-04:00 HOUR	2.0	WNW	2.5	E	1.4	NE
04:00-05:00 HOUR	2.0	NNW	3.0	NW	1.4	N
05:00-06:00 HOUR	1.6	W	2.1	NNW	0.9	NE
06:00-07:00 HOUR	1.5	WNW	2.5	NNE	0.9	ENE



TIME *	RESULT (m/s)							
	บ้านห้วยหมื่น							
	JANUARY 15-16, 2025		JANUARY 16-17, 2025		JANUARY 17-18, 2025		JANUARY 18-19, 2025	
	T25AB233-0011		T25AB233-0012		T25AB233-0013		T25AB233-0014	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.2	N	2.5	NW	1.8	NNE	1.7	N
08:00-09:00 HOUR	1.0	NNE	2.9	WNW	1.6	NNE	0.9	N
09:00-10:00 HOUR	1.1	ENE	2.5	NNE	2.1	NNE	1.2	ENE
10:00-11:00 HOUR	1.7	NE	2.2	NNW	3.1	NNE	0.8	ENE
11:00-12:00 HOUR	2.3	ESE	2.2	NNE	3.5	NNE	0.7	NNE
12:00-13:00 HOUR	2.1	ENE	2.6	E	3.1	NNE	0.7	ENE
13:00-14:00 HOUR	1.5	ENE	2.4	SE	2.1	NNE	1.0	ENE
14:00-15:00 HOUR	1.5	N	3.0	E	1.9	ENE	0.7	NNE
15:00-16:00 HOUR	1.8	NNE	2.9	NNE	2.3	NE	0.7	NNE
16:00-17:00 HOUR	2.3	NE	2.8	NE	2.4	NNE	0.9	NNE
17:00-18:00 HOUR	1.4	ENE	2.6	NNE	1.8	ENE	0.9	ENE
18:00-19:00 HOUR	1.7	NNW	2.2	NNE	2.3	NW	1.0	NNE
19:00-20:00 HOUR	1.2	NW	2.0	NNE	1.8	N	1.2	NNE
20:00-21:00 HOUR	0.8	NW	1.8	NW	2.3	NW	0.9	NW
21:00-22:00 HOUR	0.9	NW	1.8	NNW	2.3	NNE	1.1	N
22:00-23:00 HOUR	1.0	NNE	2.3	NW	2.5	NNW	1.1	N
23:00-00:00 HOUR	1.1	NE	1.5	E	2.5	N	0.9	NW
00:00-01:00 HOUR	1.4	NNE	2.2	NW	2.8	NNW	0.8	NW
01:00-02:00 HOUR	1.8	N	1.6	N	3.4	NE	1.2	N
02:00-03:00 HOUR	1.7	N	1.4	NE	2.3	NE	1.1	N
03:00-04:00 HOUR	2.0	N	2.1	N	3.1	N	0.8	NNW
04:00-05:00 HOUR	2.1	N	2.3	N	2.5	E	1.0	NE
05:00-06:00 HOUR	2.4	N	1.7	NW	1.8	NE	0.9	N
06:00-07:00 HOUR	2.6	NNW	1.8	N	1.3	N	0.7	N

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ภาคผนวก ค5

รายงานผลการติดตามตรวจสอบระดับเสียงในบรรยากาศทั่วไป

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JANUARY 12-17, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JANUARY 12-17, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JANUARY 27, 2025
MEASURING SOURCE	: บ้านคิลาทอง	REPORT NO.	: 2025-U006632
MEASURING TYPE	: AMBIENT (NOISE)	WORK NO.	: 2024-012255
MEASURING DATE	: JANUARY 12-17, 2025	ANALYSIS NO.	: T25AB234-0001 - T25AB234-0005
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER**		
MEASURED BY	: MR JIRAWAT SUKKASEM		

TIME*	RESULT dB(A)		
	บ้านคิลาทอง		
	JANUARY 12-13, 2025		
	T25AB234-0001		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	52.2	71.9	48.6
08:00-09:00 HOUR	51.0	66.9	48.9
09:00-10:00 HOUR	53.4	75.1	48.3
10:00-11:00 HOUR	55.5	76.9	48.5
11:00-12:00 HOUR	51.3	68.6	48.4
12:00-13:00 HOUR	50.3	66.0	47.2
13:00-14:00 HOUR	50.9	68.5	47.9
14:00-15:00 HOUR	49.1	64.6	46.5
15:00-16:00 HOUR	48.8	65.1	45.4
16:00-17:00 HOUR	49.1	65.3	46.7
17:00-18:00 HOUR	47.8	63.9	45.4
18:00-19:00 HOUR	47.6	62.5	44.8
19:00-20:00 HOUR	46.5	61.4	43.6
20:00-21:00 HOUR	49.3	65.3	47.0
21:00-22:00 HOUR	49.9	65.3	47.6
22:00-23:00 HOUR	46.2	63.0	43.8
23:00-00:00 HOUR	47.9	64.2	45.2
00:00-01:00 HOUR	48.4	64.5	45.9
01:00-02:00 HOUR	49.1	65.4	46.6
02:00-03:00 HOUR	50.1	64.9	47.4
03:00-04:00 HOUR	48.3	64.6	45.5
04:00-05:00 HOUR	49.1	65.5	46.5
05:00-06:00 HOUR	48.9	64.4	46.2
06:00-07:00 HOUR	49.3	68.3	46.3
L _{Aeq} 24 hours	50.1		
L _{Adn}	55.5		



TIME*	RESULT dB(A)		
	บ้านศิลาทอง		
	JANUARY 13-14, 2025		
	T25AB234-0002		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	49.8	65.4	47.2
08:00-09:00 HOUR	50.1	66.8	47.5
09:00-10:00 HOUR	49.5	66.0	46.6
10:00-11:00 HOUR	51.5	69.9	48.3
11:00-12:00 HOUR	50.8	66.2	48.4
12:00-13:00 HOUR	50.3	66.5	47.3
13:00-14:00 HOUR	50.0	66.5	47.3
14:00-15:00 HOUR	51.3	68.1	48.1
15:00-16:00 HOUR	50.4	66.5	48.4
16:00-17:00 HOUR	51.3	69.0	48.5
17:00-18:00 HOUR	50.7	66.8	48.2
18:00-19:00 HOUR	51.8	68.1	49.2
19:00-20:00 HOUR	53.2	73.2	47.4
20:00-21:00 HOUR	49.5	65.0	47.2
21:00-22:00 HOUR	49.7	65.3	47.0
22:00-23:00 HOUR	54.5	74.5	47.5
23:00-00:00 HOUR	49.9	66.4	46.6
00:00-01:00 HOUR	49.1	66.1	45.9
01:00-02:00 HOUR	46.9	63.4	44.5
02:00-03:00 HOUR	46.4	62.9	43.6
03:00-04:00 HOUR	45.5	62.1	43.1
04:00-05:00 HOUR	46.7	63.2	44.6
05:00-06:00 HOUR	47.2	62.7	44.5
06:00-07:00 HOUR	46.6	61.3	44.0
L _{Aeq} 24 hours		50.2	
L _{Adn}		55.8	

TIME*	RESULT dB(A)		
	บ้านคิลาทอง		
	JANUARY 14-15, 2025		
	T25AB234-0003		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	49.2	64.1	46.8
08:00-09:00 HOUR	49.2	65.2	46.9
09:00-10:00 HOUR	49.7	65.7	47.4
10:00-11:00 HOUR	49.9	65.9	47.5
11:00-12:00 HOUR	52.5	69.4	49.1
12:00-13:00 HOUR	53.7	69.2	51.8
13:00-14:00 HOUR	50.1	65.9	47.2
14:00-15:00 HOUR	51.2	66.9	48.4
15:00-16:00 HOUR	51.0	65.8	48.5
16:00-17:00 HOUR	50.7	68.4	48.0
17:00-18:00 HOUR	50.1	65.0	47.9
18:00-19:00 HOUR	50.0	65.1	47.6
19:00-20:00 HOUR	49.8	67.1	46.7
20:00-21:00 HOUR	50.1	65.9	47.2
21:00-22:00 HOUR	49.8	64.9	47.4
22:00-23:00 HOUR	49.5	64.3	47.0
23:00-00:00 HOUR	51.7	67.5	48.8
00:00-01:00 HOUR	51.5	67.9	49.6
01:00-02:00 HOUR	49.1	65.0	46.5
02:00-03:00 HOUR	47.7	62.2	45.4
03:00-04:00 HOUR	47.2	64.9	44.1
04:00-05:00 HOUR	46.8	63.1	44.9
05:00-06:00 HOUR	46.6	62.9	44.3
06:00-07:00 HOUR	46.9	62.4	43.9
L _{Aeq} 24 hours		50.1	
L _{Adn}		55.7	

TIME*	RESULT dB(A)		
	บ้านศิลาทอง		
	JANUARY 15-16, 2025		
	T25AB234-0004		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	49.9	66.8	47.6
08:00-09:00 HOUR	50.3	66.8	48.2
09:00-10:00 HOUR	49.9	66.8	47.2
10:00-11:00 HOUR	49.5	65.2	47.1
11:00-12:00 HOUR	52.2	68.7	48.8
12:00-13:00 HOUR	51.4	65.9	49.5
13:00-14:00 HOUR	50.4	68.7	47.0
14:00-15:00 HOUR	49.8	65.7	47.3
15:00-16:00 HOUR	50.0	66.0	47.7
16:00-17:00 HOUR	50.1	66.7	47.4
17:00-18:00 HOUR	49.9	65.7	47.4
18:00-19:00 HOUR	50.1	65.7	48.0
19:00-20:00 HOUR	49.7	65.5	47.5
20:00-21:00 HOUR	49.4	65.1	46.8
21:00-22:00 HOUR	50.3	65.8	48.2
22:00-23:00 HOUR	50.4	66.5	47.3
23:00-00:00 HOUR	50.7	67.1	47.8
00:00-01:00 HOUR	51.4	67.9	48.9
01:00-02:00 HOUR	49.0	65.3	46.4
02:00-03:00 HOUR	50.0	66.0	47.7
03:00-04:00 HOUR	48.8	67.2	46.5
04:00-05:00 HOUR	48.2	63.7	45.2
05:00-06:00 HOUR	48.2	64.0	45.4
06:00-07:00 HOUR	48.0	64.5	45.0
L _{Aeq} 24 hours		50.0	
L _{Adn}		56.1	

TIME*	RESULT dB(A)		
	บ้านศิลาทอง		
	JANUARY 16-17, 2025		
	T25AB234-0005		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	49.9	64.6	47.7
08:00-09:00 HOUR	50.2	66.4	48.0
09:00-10:00 HOUR	53.6	75.2	48.1
10:00-11:00 HOUR	50.6	66.3	48.2
11:00-12:00 HOUR	51.3	68.0	48.6
12:00-13:00 HOUR	50.6	65.9	47.9
13:00-14:00 HOUR	51.2	71.2	48.2
14:00-15:00 HOUR	50.5	66.7	48.0
15:00-16:00 HOUR	50.2	67.3	47.7
16:00-17:00 HOUR	51.8	69.1	48.5
17:00-18:00 HOUR	55.5	77.0	48.8
18:00-19:00 HOUR	51.2	69.4	48.7
19:00-20:00 HOUR	49.8	64.9	47.4
20:00-21:00 HOUR	49.5	64.8	46.9
21:00-22:00 HOUR	48.5	64.3	46.0
22:00-23:00 HOUR	46.4	62.7	44.0
23:00-00:00 HOUR	48.1	64.3	45.1
00:00-01:00 HOUR	48.6	64.7	46.1
01:00-02:00 HOUR	47.7	65.0	45.3
02:00-03:00 HOUR	48.3	64.8	44.8
03:00-04:00 HOUR	48.5	66.3	45.9
04:00-05:00 HOUR	48.0	64.4	45.4
05:00-06:00 HOUR	45.9	62.8	42.9
06:00-07:00 HOUR	46.3	61.1	43.4
L _{Aeq} 24 hours		50.3	
L _{Adn}		54.8	

REMARK : ** ISO 1996-1:2016

** NOTIFICATION OF NATION ENVIRONMENT BOARD NO. 15 B.E. 2540 (1997) (MARCH 12, 1977)

** NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT (B.E. 2540) REGARDING THE CALCULATION METHOD FOR SOUND LEVELS, DATED AUGUST 11, B.E. 2540

** NOTIFICATION OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT ON THE ESTABLISHMENT OF STANDARDS FOR CONTROLLING NOISE AND VIBRATION, DATED NOVEMBER 7, B.E. 2548

** NOTIFICATION OF THE DEPARTMENT OF INDUSTRIAL WORKS ON THE MEASUREMENT METHOD FOR NOISE POLLUTION, 24-HOUR AVERAGE NOISE LEVEL, AND MAXIMUM NOISE LEVEL FROM INDUSTRIAL OPERATIONS, B.E. 2553, DATED DECEMBER 20, B.E. 2553

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JANUARY 12-17, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JANUARY 12-17, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JANUARY 28, 2025
MEASURING SOURCE	: บ้านทัพพม้น	REPORT NO.	: 2025-U006633
MEASURING TYPE	: AMBIENT (NOISE)	WORK NO.	: 2024-012255
MEASURING DATE	: JANUARY 12-17, 2025	ANALYSIS NO.	: T25AB234-0006 - T25AB234-0010
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER**		
MEASURED BY	: MR JIRAWAT SUKKASEM		

TIME*	RESULT dB(A)		
	บ้านทัพพม้น		
	JANUARY 12-13, 2025		
	T25AB234-0006		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	60.6	78.7	57.0
08:00-09:00 HOUR	59.6	77.9	56.2
09:00-10:00 HOUR	58.8	74.8	56.3
10:00-11:00 HOUR	56.5	74.4	53.3
11:00-12:00 HOUR	56.4	73.2	52.9
12:00-13:00 HOUR	54.8	70.2	51.6
13:00-14:00 HOUR	55.1	71.0	52.7
14:00-15:00 HOUR	55.0	71.0	51.7
15:00-16:00 HOUR	54.7	70.7	52.2
16:00-17:00 HOUR	54.4	70.5	52.0
17:00-18:00 HOUR	54.4	69.3	51.8
18:00-19:00 HOUR	53.8	70.1	51.6
19:00-20:00 HOUR	54.3	70.3	51.8
20:00-21:00 HOUR	53.5	69.0	51.0
21:00-22:00 HOUR	53.3	68.6	50.6
22:00-23:00 HOUR	51.4	69.6	48.4
23:00-00:00 HOUR	53.1	69.9	49.8
00:00-01:00 HOUR	53.8	71.8	50.2
01:00-02:00 HOUR	53.9	72.8	50.4
02:00-03:00 HOUR	53.7	71.2	51.0
03:00-04:00 HOUR	55.2	72.6	52.4
04:00-05:00 HOUR	55.3	71.7	52.4
05:00-06:00 HOUR	54.1	70.4	49.9
06:00-07:00 HOUR	53.1	71.1	50.2
L _{Aeq} 24 hours		55.6	
L _{Adn}		60.7	



TIME*	RESULT dB(A)		
	บ้านทัพทัน		
	JANUARY 13-14, 2025		
	T25AB234-0007		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	54.9	70.2	52.6
08:00-09:00 HOUR	54.7	71.2	52.5
09:00-10:00 HOUR	54.4	71.2	51.7
10:00-11:00 HOUR	54.2	70.0	51.8
11:00-12:00 HOUR	54.0	69.8	51.7
12:00-13:00 HOUR	53.5	70.3	50.9
13:00-14:00 HOUR	53.7	71.4	51.0
14:00-15:00 HOUR	53.0	69.5	50.5
15:00-16:00 HOUR	58.6	77.3	54.1
16:00-17:00 HOUR	60.7	78.9	57.0
17:00-18:00 HOUR	58.8	75.1	55.5
18:00-19:00 HOUR	57.2	72.2	54.6
19:00-20:00 HOUR	57.8	74.9	55.4
20:00-21:00 HOUR	56.1	72.2	53.1
21:00-22:00 HOUR	55.7	71.6	52.8
22:00-23:00 HOUR	54.6	71.3	52.1
23:00-00:00 HOUR	53.3	70.9	50.6
00:00-01:00 HOUR	54.2	71.3	52.3
01:00-02:00 HOUR	53.2	69.7	50.3
02:00-03:00 HOUR	52.1	69.6	49.3
03:00-04:00 HOUR	51.6	67.8	48.2
04:00-05:00 HOUR	52.4	69.4	49.5
05:00-06:00 HOUR	52.9	70.0	50.4
06:00-07:00 HOUR	52.1	67.9	50.0
L _{Aeq} 24 hours		55.5	
L _{Adn}		60.1	

TIME*	RESULT dB(A)		
	บ้านทัพพมณ		
	JANUARY 14-15, 2025		
	T25AB234-0008		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	60.3	77.7	55.6
08:00-09:00 HOUR	61.1	78.8	58.3
09:00-10:00 HOUR	58.6	74.8	56.0
10:00-11:00 HOUR	57.4	74.1	55.1
11:00-12:00 HOUR	56.0	72.2	53.6
12:00-13:00 HOUR	55.3	72.9	52.2
13:00-14:00 HOUR	55.7	71.4	52.8
14:00-15:00 HOUR	55.7	72.8	53.1
15:00-16:00 HOUR	54.6	71.2	51.9
16:00-17:00 HOUR	54.5	70.0	52.0
17:00-18:00 HOUR	54.4	70.2	51.7
18:00-19:00 HOUR	54.7	70.5	51.7
19:00-20:00 HOUR	54.4	70.2	52.2
20:00-21:00 HOUR	54.3	69.9	52.0
21:00-22:00 HOUR	54.2	69.8	51.7
22:00-23:00 HOUR	51.6	68.2	49.1
23:00-00:00 HOUR	53.8	70.4	50.7
00:00-01:00 HOUR	60.2	76.2	57.8
01:00-02:00 HOUR	57.9	74.9	54.6
02:00-03:00 HOUR	56.5	72.3	53.7
03:00-04:00 HOUR	55.5	72.7	52.7
04:00-05:00 HOUR	53.6	69.4	51.2
05:00-06:00 HOUR	55.4	71.5	52.5
06:00-07:00 HOUR	54.4	71.8	51.2
L _{Aeq} 24 hours		56.5	
L _{Adn}		62.6	

TIME*	RESULT dB(A)		
	บ้านทัพพินัน		
	JANUARY 15-16, 2025		
	T25AB234-0009		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.0	73.5	52.9
08:00-09:00 HOUR	56.1	74.9	51.6
09:00-10:00 HOUR	54.9	71.6	51.7
10:00-11:00 HOUR	55.7	74.0	51.9
11:00-12:00 HOUR	54.6	72.9	52.4
12:00-13:00 HOUR	55.2	72.9	51.9
13:00-14:00 HOUR	55.2	71.7	51.9
14:00-15:00 HOUR	54.2	70.6	51.6
15:00-16:00 HOUR	54.8	73.3	51.8
16:00-17:00 HOUR	55.3	72.3	51.9
17:00-18:00 HOUR	55.9	73.6	52.6
18:00-19:00 HOUR	55.5	73.1	52.1
19:00-20:00 HOUR	55.9	74.2	52.0
20:00-21:00 HOUR	56.8	77.5	52.5
21:00-22:00 HOUR	56.6	75.1	52.9
22:00-23:00 HOUR	53.8	69.6	51.2
23:00-00:00 HOUR	53.0	69.5	50.2
00:00-01:00 HOUR	54.1	72.8	51.3
01:00-02:00 HOUR	53.8	72.6	51.7
02:00-03:00 HOUR	53.3	69.3	51.3
03:00-04:00 HOUR	52.3	68.7	49.4
04:00-05:00 HOUR	54.2	70.6	51.7
05:00-06:00 HOUR	54.0	69.9	51.3
06:00-07:00 HOUR	54.6	72.7	50.7
L _{Aeq} 24 hours		55.0	
L _{Adn}		60.5	

TIME*	RESULT dB(A)		
	บ้านห้วยหิน		
	JANUARY 16-17, 2025		
	T25AB234-0010		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	57.1	77.0	52.5
08:00-09:00 HOUR	61.4	77.6	58.9
09:00-10:00 HOUR	58.2	74.2	55.4
10:00-11:00 HOUR	57.0	74.8	54.4
11:00-12:00 HOUR	56.1	73.1	52.8
12:00-13:00 HOUR	55.9	71.2	53.1
13:00-14:00 HOUR	55.5	71.8	52.6
14:00-15:00 HOUR	55.4	71.0	52.5
15:00-16:00 HOUR	54.7	71.1	51.5
16:00-17:00 HOUR	54.3	70.4	51.4
17:00-18:00 HOUR	54.0	69.3	51.4
18:00-19:00 HOUR	54.3	70.3	51.5
19:00-20:00 HOUR	54.2	68.8	51.5
20:00-21:00 HOUR	53.8	69.4	51.8
21:00-22:00 HOUR	53.8	69.9	51.0
22:00-23:00 HOUR	52.1	68.6	49.3
23:00-00:00 HOUR	52.3	69.4	49.2
00:00-01:00 HOUR	52.0	70.1	49.2
01:00-02:00 HOUR	52.2	68.3	49.1
02:00-03:00 HOUR	51.5	67.8	49.3
03:00-04:00 HOUR	52.3	68.8	49.9
04:00-05:00 HOUR	52.6	70.9	50.0
05:00-06:00 HOUR	53.8	71.0	50.8
06:00-07:00 HOUR	53.7	70.5	50.7
L _{Aeq} 24 hours		55.2	
L _{Adn}		59.7	

REMARK : ** ISO 1996-1:2016

** NOTIFICATION OF NATION ENVIRONMENT BOARD NO. 15 B.E. 2540 (1997) (MARCH 12, 1977)

** NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT (B.E. 2540) REGARDING THE CALCULATION METHOD FOR SOUND LEVELS, DATED AUGUST 11, B.E. 2540

** NOTIFICATION OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT ON THE ESTABLISHMENT OF STANDARDS FOR CONTROLLING NOISE AND VIBRATION, DATED NOVEMBER 7, B.E. 2548

** NOTIFICATION OF THE DEPARTMENT OF INDUSTRIAL WORKS ON THE MEASUREMENT METHOD FOR NOISE POLLUTION, 24-HOUR AVERAGE NOISE LEVEL, AND MAXIMUM NOISE LEVEL FROM INDUSTRIAL OPERATIONS, B.E. 2553, DATED DECEMBER 20, B.E. 2553

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ภาคผนวก ค6

รายงานผลการติดตามตรวจสอบระดับการรบกวน

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED

ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140

CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com

MEASURING PLACE : บ้านศิลาทอง

MEASURING TYPE : AMBIENT (ANNOYANCE SOUND LEVEL)

MEASURING DATE : JANUARY 12-17, 2025

MEASURING TIME : *

MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND
CALCULATION****

MEASURED BY : MR JIRAWAT SUKKASEM

RECEIVED DATE : JANUARY 12-17, 2025

ANALYTICAL DATE : JANUARY 12-17, 2025

ISSUE DATE : JANUARY 27, 2025

REPORT NO. : 2025-U006634

WORK NO. : 2024-012255

ANALYSIS NO. : T25AB234-0001 - T25AB234-0005

DATE	TIME*	RESULT (dB(A))				
		บ้านศิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 12, 2025 T25AB234-0001	DAY TIME ^{1/}					
	07:00-08:00 HOUR	52.2 ^{1/}	48.2 **	50.0 ^{1/}	46.9 **	3.1
	08:00-09:00 HOUR	51.0 ^{1/}	48.2 **	47.8 ^{1/}	46.8 **	1.0
	09:00-10:00 HOUR	53.4 ^{1/}	49.1 **	51.4 ^{1/}	47.8 **	3.6
	10:00-11:00 HOUR	55.5 ^{1/}	49.2 **	54.3 ^{1/}	48.1 **	6.2
	11:00-12:00 HOUR	51.3 ^{1/}	48.0 **	48.6 ^{1/}	46.5 **	2.1
	12:00-13:00 HOUR	50.3 ^{1/}	46.7 **	47.8 ^{1/}	45.4 **	2.4
	13:00-14:00 HOUR	50.9 ^{1/}	47.4 **	48.3 ^{1/}	46.0 **	2.3
	14:00-15:00 HOUR	49.1 ^{1/}	45.9 **	46.3 ^{1/}	44.5 **	1.8
	15:00-16:00 HOUR	48.8 ^{1/}	45.7 **	45.9 ^{1/}	44.1 **	1.8
	16:00-17:00 HOUR	49.1 ^{1/}	46.1 **	46.1 ^{1/}	44.6 **	1.5
	17:00-18:00 HOUR	47.8 ^{1/}	44.6 **	45.0 ^{1/}	43.5 **	1.5
	18:00-19:00 HOUR	47.6 ^{1/}	44.5 **	44.7 ^{1/}	43.2 **	1.5
	19:00-20:00 HOUR	46.5 ^{1/}	44.0 **	42.9 ^{1/}	42.8 **	<0.8 ^{3/}
	20:00-21:00 HOUR	49.3 ^{1/}	46.5 **	46.1 ^{1/}	45.1 **	1.0
	21:00-22:00 HOUR	49.9 ^{1/}	46.8 **	47.0 ^{1/}	45.3 **	1.7
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	46.1 ^{2/}	44.9 ***	42.9 ^{2/}	43.5 ***	<0.8 ^{3/}
	22:05-22:10 HOUR	46.8 ^{2/}	44.9 ***	45.3 ^{2/}	43.5 ***	1.8
	22:10-22:15 HOUR	48.0 ^{2/}	44.9 ***	48.1 ^{2/}	43.5 ***	4.6
	22:15-22:20 HOUR	46.2 ^{2/}	42.6 ***	46.7 ^{2/}	41.2 ***	5.5
	22:20-22:25 HOUR	45.7 ^{2/}	42.6 ***	45.8 ^{2/}	41.2 ***	4.6
	22:25-22:30 HOUR	44.8 ^{2/}	42.6 ***	43.8 ^{2/}	41.2 ***	2.6
	22:30-22:35 HOUR	45.5 ^{2/}	43.8 ***	43.6 ^{2/}	42.3 ***	1.3
	22:35-22:40 HOUR	46.4 ^{2/}	43.8 ***	45.9 ^{2/}	42.3 ***	3.6
	22:40-22:45 HOUR	46.2 ^{2/}	43.8 ***	45.5 ^{2/}	42.3 ***	3.2
	22:45-22:50 HOUR	45.5 ^{2/}	44.5 ***	41.6 ^{2/}	43.2 ***	<0.8 ^{3/}
	22:50-22:55 HOUR	45.1 ^{2/}	44.5 ***	39.2 ^{2/}	43.2 ***	<0.8 ^{3/}
	22:55-23:00 HOUR	47.4 ^{2/}	44.5 ***	47.3 ^{2/}	43.2 ***	4.1
	23:00-23:05 HOUR	47.4 ^{2/}	44.5 ***	47.3 ^{2/}	43.1 ***	4.2
	23:05-23:10 HOUR	46.5 ^{2/}	44.5 ***	45.2 ^{2/}	43.1 ***	2.1
	23:10-23:15 HOUR	47.8 ^{2/}	44.5 ***	48.1 ^{2/}	43.1 ***	5.0
	23:15-23:20 HOUR	46.9 ^{2/}	44.8 ***	45.7 ^{2/}	43.3 ***	2.4



DATE	TIME*	RESULT (dB(A))				
		บ้านศิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 12, 2025	NIGHT TIME ^{2/}					
T25AB234-0001	23:20-23:25 HOUR	47.5 ^{2/}	44.8 ***	47.2 ^{2/}	43.3 ***	3.9
	23:25-23:30 HOUR	48.1 ^{2/}	44.8 ***	48.4 ^{2/}	43.3 ***	5.1
	23:30-23:35 HOUR	48.4 ^{2/}	44.9 ***	48.8 ^{2/}	43.4 ***	5.4
	23:35-23:40 HOUR	49.3 ^{2/}	44.9 ***	50.3 ^{2/}	43.4 ***	6.9
	23:40-23:45 HOUR	46.5 ^{2/}	44.9 ***	44.4 ^{2/}	43.4 ***	1.0
	23:45-23:50 HOUR	48.0 ^{2/}	45.4 ***	47.5 ^{2/}	43.8 ***	3.7
	23:50-23:55 HOUR	46.8 ^{2/}	45.4 ***	44.2 ^{2/}	43.8 ***	<0.8 ^{3/}
	23:55-00:00 HOUR	49.7 ^{2/}	45.4 ***	50.7 ^{2/}	43.8 ***	6.9
JANUARY 13, 2025	NIGHT TIME ^{2/}					
T25AB234-0001	00:00-00:05 HOUR	47.0 ^{2/}	43.9 ***	47.1 ^{2/}	42.6 ***	4.5
	00:05-00:10 HOUR	48.0 ^{2/}	43.9 ***	48.9 ^{2/}	42.6 ***	6.3
	00:10-00:15 HOUR	46.2 ^{2/}	43.9 ***	45.3 ^{2/}	42.6 ***	2.7
	00:15-00:20 HOUR	46.4 ^{2/}	45.3 ***	42.9 ^{2/}	43.9 ***	<0.8 ^{3/}
	00:20-00:25 HOUR	47.4 ^{2/}	45.3 ***	46.2 ^{2/}	43.9 ***	2.3
	00:25-00:30 HOUR	47.7 ^{2/}	45.3 ***	47.0 ^{2/}	43.9 ***	3.1
	00:30-00:35 HOUR	50.1 ^{2/}	46.6 ***	50.5 ^{2/}	45.1 ***	5.4
	00:35-00:40 HOUR	48.9 ^{2/}	46.6 ***	48.0 ^{2/}	45.1 ***	2.9
	00:40-00:45 HOUR	48.2 ^{2/}	46.6 ***	46.1 ^{2/}	45.1 ***	1.0
	00:45-00:50 HOUR	49.2 ^{2/}	45.9 ***	49.5 ^{2/}	44.4 ***	5.1
	00:50-00:55 HOUR	48.6 ^{2/}	45.9 ***	48.3 ^{2/}	44.4 ***	3.9
	00:55-01:00 HOUR	50.5 ^{2/}	45.9 ***	51.7 ^{2/}	44.4 ***	7.3
	01:00-01:05 HOUR	51.0 ^{2/}	49.0 ***	49.5 ^{2/}	47.7 ***	1.8
	01:05-01:10 HOUR	49.2 ^{2/}	49.0 ***	39.3 ^{2/}	47.7 ***	<0.8 ^{3/}
	01:10-01:15 HOUR	49.9 ^{2/}	49.0 ***	45.6 ^{2/}	47.7 ***	<0.8 ^{3/}
	01:15-01:20 HOUR	47.4 ^{2/}	45.4 ***	46.1 ^{2/}	44.2 ***	1.9
	01:20-01:25 HOUR	46.1 ^{2/}	45.4 ***	40.8 ^{2/}	44.2 ***	<0.8 ^{3/}
	01:25-01:30 HOUR	48.4 ^{2/}	45.4 ***	48.4 ^{2/}	44.2 ***	4.2
	01:30-01:35 HOUR	51.4 ^{2/}	46.8 ***	52.6 ^{2/}	45.5 ***	7.1
	01:35-01:40 HOUR	47.5 ^{2/}	46.8 ***	42.2 ^{2/}	45.5 ***	<0.8 ^{3/}
	01:40-01:45 HOUR	48.4 ^{2/}	46.8 ***	46.3 ^{2/}	45.5 ***	0.8
	01:45-01:50 HOUR	49.3 ^{2/}	47.9 ***	46.7 ^{2/}	46.7 ***	<0.8 ^{3/}
	01:50-01:55 HOUR	48.1 ^{2/}	47.9 ***	37.6 ^{2/}	46.7 ***	<0.8 ^{3/}
	01:55-02:00 HOUR	49.7 ^{2/}	47.9 ***	48.0 ^{2/}	46.7 ***	1.3
	02:00-02:05 HOUR	50.9 ^{2/}	47.0 ***	51.6 ^{2/}	45.4 ***	6.2
	02:05-02:10 HOUR	48.6 ^{2/}	47.0 ***	46.5 ^{2/}	45.4 ***	1.1
	02:10-02:15 HOUR	50.6 ^{2/}	47.0 ***	51.1 ^{2/}	45.4 ***	5.7
	02:15-02:20 HOUR	52.0 ^{2/}	47.8 ***	52.9 ^{2/}	46.5 ***	6.4
	02:20-02:25 HOUR	49.6 ^{2/}	47.8 ***	47.9 ^{2/}	46.5 ***	1.4
	02:25-02:30 HOUR	49.6 ^{2/}	47.8 ***	47.9 ^{2/}	46.5 ***	1.4
	02:30-02:35 HOUR	50.2 ^{2/}	48.6 ***	48.1 ^{2/}	47.2 ***	0.9
	02:35-02:40 HOUR	49.4 ^{2/}	48.6 ***	44.7 ^{2/}	47.2 ***	<0.8 ^{3/}
	02:40-02:45 HOUR	51.4 ^{2/}	48.6 ***	51.2 ^{2/}	47.2 ***	4.0
	02:45-02:50 HOUR	49.8 ^{2/}	45.9 ***	50.5 ^{2/}	44.4 ***	6.1
	02:50-02:55 HOUR	47.1 ^{2/}	45.9 ***	43.9 ^{2/}	44.4 ***	<0.8 ^{3/}

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 13, 2025 T25AB234-0001	NIGHT TIME ^{2/}					
	02:55-03:00 HOUR	50.5 ^{2/}	45.9 ***	51.7 ^{2/}	44.4 ***	7.3
	03:00-03:05 HOUR	48.3 ^{2/}	44.5 ***	49.0 ^{2/}	43.2 ***	5.8
	03:05-03:10 HOUR	47.9 ^{2/}	44.5 ***	48.2 ^{2/}	43.2 ***	5.0
	03:10-03:15 HOUR	46.2 ^{2/}	44.5 ***	44.3 ^{2/}	43.2 ***	1.1
	03:15-03:20 HOUR	47.5 ^{2/}	45.5 ***	46.2 ^{2/}	44.0 ***	2.2
	03:20-03:25 HOUR	48.3 ^{2/}	45.5 ***	48.1 ^{2/}	44.0 ***	4.1
	03:25-03:30 HOUR	48.8 ^{2/}	45.5 ***	49.1 ^{2/}	44.0 ***	5.1
	03:30-03:35 HOUR	50.8 ^{2/}	45.8 ***	52.1 ^{2/}	44.3 ***	7.8
	03:35-03:40 HOUR	46.7 ^{2/}	45.8 ***	42.4 ^{2/}	44.3 ***	<0.8 ^{3/}
	03:40-03:45 HOUR	47.5 ^{2/}	45.8 ***	45.6 ^{2/}	44.3 ***	1.3
	03:45-03:50 HOUR	49.6 ^{2/}	45.3 ***	50.6 ^{2/}	43.7 ***	6.9
	03:50-03:55 HOUR	47.5 ^{2/}	45.3 ***	46.5 ^{2/}	43.7 ***	2.8
	03:55-04:00 HOUR	48.3 ^{2/}	45.3 ***	48.3 ^{2/}	43.7 ***	4.6
	04:00-04:05 HOUR	48.6 ^{2/}	47.9 ***	43.3 ^{2/}	46.1 ***	<0.8 ^{3/}
	04:05-04:10 HOUR	48.7 ^{2/}	47.9 ***	44.0 ^{2/}	46.1 ***	<0.8 ^{3/}
	04:10-04:15 HOUR	50.8 ^{2/}	47.9 ***	50.7 ^{2/}	46.1 ***	4.6
	04:15-04:20 HOUR	49.6 ^{2/}	46.3 ***	49.9 ^{2/}	44.8 ***	5.1
	04:20-04:25 HOUR	48.0 ^{2/}	46.3 ***	46.1 ^{2/}	44.8 ***	1.3
	04:25-04:30 HOUR	49.6 ^{2/}	46.3 ***	49.9 ^{2/}	44.8 ***	5.1
	04:30-04:35 HOUR	48.0 ^{2/}	46.3 ***	46.1 ^{2/}	44.8 ***	1.3
	04:35-04:40 HOUR	51.0 ^{2/}	46.3 ***	52.2 ^{2/}	44.8 ***	7.4
	04:40-04:45 HOUR	47.0 ^{2/}	46.3 ***	41.7 ^{2/}	44.8 ***	<0.8 ^{3/}
	04:45-04:50 HOUR	48.5 ^{2/}	45.1 ***	48.8 ^{2/}	43.7 ***	5.1
	04:50-04:55 HOUR	49.5 ^{2/}	45.1 ***	50.5 ^{2/}	43.7 ***	6.8
	04:55-05:00 HOUR	47.5 ^{2/}	45.1 ***	46.8 ^{2/}	43.7 ***	3.1
	05:00-05:05 HOUR	48.2 ^{2/}	47.0 ***	45.0 ^{2/}	45.5 ***	<0.8 ^{3/}
	05:05-05:10 HOUR	50.0 ^{2/}	47.0 ***	50.0 ^{2/}	45.5 ***	4.5
	05:10-05:15 HOUR	49.9 ^{2/}	47.0 ***	49.8 ^{2/}	45.5 ***	4.3
	05:15-05:20 HOUR	49.3 ^{2/}	44.4 ***	50.5 ^{2/}	43.1 ***	7.4
	05:20-05:25 HOUR	47.8 ^{2/}	44.4 ***	48.1 ^{2/}	43.1 ***	5.0
	05:25-05:30 HOUR	47.1 ^{2/}	44.4 ***	46.8 ^{2/}	43.1 ***	3.7
	05:30-05:35 HOUR	47.7 ^{2/}	46.1 ***	45.6 ^{2/}	44.7 ***	0.9
	05:35-05:40 HOUR	46.2 ^{2/}	46.1 ***	32.8 ^{2/}	44.7 ***	<0.8 ^{3/}
	05:40-05:45 HOUR	50.0 ^{2/}	46.1 ***	50.7 ^{2/}	44.7 ***	6.0
	05:45-05:50 HOUR	48.3 ^{2/}	46.8 ***	46.0 ^{2/}	45.3 ***	<0.8 ^{3/}
	05:50-05:55 HOUR	49.3 ^{2/}	46.8 ***	48.7 ^{2/}	45.3 ***	3.4
	05:55-06:00 HOUR	50.9 ^{2/}	46.8 ***	51.8 ^{2/}	45.3 ***	6.5
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	49.3 ^{1/}	45.8 **	46.7 ^{1/}	44.4 **	2.3
JANUARY 13, 2025 T25AB234-0002	DAY TIME ^{1/}					
	07:00-08:00 HOUR	49.8 ^{1/}	47.0 **	46.6 ^{1/}	45.5 **	1.1
	08:00-09:00 HOUR	50.1 ^{1/}	46.6 **	47.5 ^{1/}	45.2 **	2.3
	09:00-10:00 HOUR	49.5 ^{1/}	46.5 **	46.5 ^{1/}	45.1 **	1.4
	10:00-11:00 HOUR	51.5 ^{1/}	48.1 **	48.8 ^{1/}	46.7 **	2.1
	11:00-12:00 HOUR	50.8 ^{1/}	48.1 **	47.5 ^{1/}	46.7 **	0.8

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 13, 2025 T25AB234-0002	DAY TIME ^{1/}					
	12:00-13:00 HOUR	50.3 ^{1/}	47.8 **	46.7 ^{1/}	46.2 **	<0.8 ^{3/}
	13:00-14:00 HOUR	50.0 ^{1/}	46.7 **	47.3 ^{1/}	45.3 **	2.0
	14:00-15:00 HOUR	51.3 ^{1/}	47.7 **	48.8 ^{1/}	46.3 **	2.5
	15:00-16:00 HOUR	50.4 ^{1/}	47.3 **	47.5 ^{1/}	45.7 **	1.8
	16:00-17:00 HOUR	51.3 ^{1/}	48.5 **	48.1 ^{1/}	47.2 **	0.9
	17:00-18:00 HOUR	50.7 ^{1/}	47.8 **	47.6 ^{1/}	46.3 **	1.3
	18:00-19:00 HOUR	51.8 ^{1/}	49.1 **	48.5 ^{1/}	47.7 **	0.8
	19:00-20:00 HOUR	53.2 ^{1/}	47.4 **	51.9 ^{1/}	46.0 **	5.9
	20:00-21:00 HOUR	49.5 ^{1/}	46.7 **	46.3 ^{1/}	45.4 **	0.9
	21:00-22:00 HOUR	49.7 ^{1/}	46.6 **	46.8 ^{1/}	45.3 **	1.5
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	47.9 ^{2/}	46.1 ***	46.2 ^{2/}	44.6 ***	1.6
	22:05-22:10 HOUR	48.9 ^{2/}	46.1 ***	48.7 ^{2/}	44.6 ***	4.1
	22:10-22:15 HOUR	50.3 ^{2/}	46.1 ***	51.2 ^{2/}	44.6 ***	6.6
	22:15-22:20 HOUR	47.9 ^{2/}	47.4 ***	41.3 ^{2/}	46.2 ***	<0.8 ^{3/}
	22:20-22:25 HOUR	52.0 ^{2/}	47.4 ***	53.2 ^{2/}	46.2 ***	7.0
	22:25-22:30 HOUR	49.8 ^{2/}	47.4 ***	49.1 ^{2/}	46.2 ***	2.9
	22:30-22:35 HOUR	60.3 ^{2/}	57.1 ***	60.4 ^{2/}	55.7 ***	4.7
	22:35-22:40 HOUR	58.2 ^{2/}	57.1 ***	54.7 ^{2/}	55.7 ***	<0.8 ^{3/}
	22:40-22:45 HOUR	59.2 ^{2/}	57.1 ***	58.1 ^{2/}	55.7 ***	2.4
	22:45-22:50 HOUR	50.1 ^{2/}	46.6 ***	50.4 ^{2/}	45.4 ***	5.0
	22:50-22:55 HOUR	49.4 ^{2/}	46.6 ***	49.2 ^{2/}	45.4 ***	3.8
	22:55-23:00 HOUR	49.2 ^{2/}	46.6 ***	48.7 ^{2/}	45.4 ***	3.3
	23:00-23:05 HOUR	51.0 ^{2/}	50.9 ***	37.6 ^{2/}	49.5 ***	<0.8 ^{3/}
	23:05-23:10 HOUR	52.3 ^{2/}	50.9 ***	49.7 ^{2/}	49.5 ***	<0.8 ^{3/}
	23:10-23:15 HOUR	51.9 ^{2/}	50.9 ***	47.8 ^{2/}	49.5 ***	<0.8 ^{3/}
	23:15-23:20 HOUR	49.2 ^{2/}	44.7 ***	50.3 ^{2/}	43.2 ***	7.1
	23:20-23:25 HOUR	48.6 ^{2/}	44.7 ***	49.3 ^{2/}	43.2 ***	6.1
	23:25-23:30 HOUR	47.0 ^{2/}	44.7 ***	46.1 ^{2/}	43.2 ***	2.9
	23:30-23:35 HOUR	48.2 ^{2/}	45.8 ***	47.5 ^{2/}	44.3 ***	3.2
	23:35-23:40 HOUR	48.1 ^{2/}	45.8 ***	47.2 ^{2/}	44.3 ***	2.9
	23:40-23:45 HOUR	47.9 ^{2/}	45.8 ***	46.7 ^{2/}	44.3 ***	2.4
	23:45-23:50 HOUR	50.0 ^{2/}	49.5 ***	43.4 ^{2/}	48.1 ***	<0.8 ^{3/}
	23:50-23:55 HOUR	49.9 ^{2/}	49.5 ***	42.3 ^{2/}	48.1 ***	<0.8 ^{3/}
	23:55-00:00 HOUR	51.5 ^{2/}	49.5 ***	50.2 ^{2/}	48.1 ***	2.1
JANUARY 14, 2025 T25AB234-0002	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	51.7 ^{2/}	47.8 ***	52.4 ^{2/}	46.4 ***	6.0
	00:05-00:10 HOUR	51.0 ^{2/}	47.8 ***	51.2 ^{2/}	46.4 ***	4.8
	00:10-00:15 HOUR	51.7 ^{2/}	47.8 ***	52.4 ^{2/}	46.4 ***	6.0
	00:15-00:20 HOUR	49.3 ^{2/}	45.2 ***	50.2 ^{2/}	43.8 ***	6.4
	00:20-00:25 HOUR	49.1 ^{2/}	45.2 ***	49.8 ^{2/}	43.8 ***	6.0
	00:25-00:30 HOUR	48.8 ^{2/}	45.2 ***	49.3 ^{2/}	43.8 ***	5.5
	00:30-00:35 HOUR	47.5 ^{2/}	45.2 ***	46.6 ^{2/}	43.9 ***	2.7
	00:35-00:40 HOUR	46.9 ^{2/}	45.2 ***	45.0 ^{2/}	43.9 ***	1.1
	00:40-00:45 HOUR	47.2 ^{2/}	45.2 ***	45.9 ^{2/}	43.9 ***	2.0

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 14, 2025 T25AB234-0002	NIGHT TIME ^{2/}					
	00:45-00:50 HOUR	46.3 ^{2/}	45.2 ***	42.8 ^{2/}	44.1 ***	<0.8 ^{3/}
	00:50-00:55 HOUR	47.9 ^{2/}	45.2 ***	47.6 ^{2/}	44.1 ***	3.5
	00:55-01:00 HOUR	46.6 ^{2/}	45.2 ***	44.0 ^{2/}	44.1 ***	<0.8 ^{3/}
	01:00-01:05 HOUR	47.6 ^{2/}	44.7 ***	47.5 ^{2/}	43.3 ***	4.2
	01:05-01:10 HOUR	46.1 ^{2/}	44.7 ***	43.5 ^{2/}	43.3 ***	<0.8 ^{3/}
	01:10-01:15 HOUR	47.6 ^{2/}	44.7 ***	47.5 ^{2/}	43.3 ***	4.2
	01:15-01:20 HOUR	46.7 ^{2/}	45.0 ***	44.8 ^{2/}	43.5 ***	1.3
	01:20-01:25 HOUR	48.5 ^{2/}	45.0 ***	48.9 ^{2/}	43.5 ***	5.4
	01:25-01:30 HOUR	47.3 ^{2/}	45.0 ***	46.4 ^{2/}	43.5 ***	2.9
	01:30-01:35 HOUR	48.0 ^{2/}	43.5 ***	49.1 ^{2/}	42.0 ***	7.1
	01:35-01:40 HOUR	46.0 ^{2/}	43.5 ***	45.4 ^{2/}	42.0 ***	3.4
	01:40-01:45 HOUR	45.8 ^{2/}	43.5 ***	44.9 ^{2/}	42.0 ***	2.9
	01:45-01:50 HOUR	45.0 ^{2/}	42.8 ***	44.0 ^{2/}	41.4 ***	2.6
	01:50-01:55 HOUR	46.4 ^{2/}	42.8 ***	46.9 ^{2/}	41.4 ***	5.5
	01:55-02:00 HOUR	46.8 ^{2/}	42.8 ***	47.6 ^{2/}	41.4 ***	6.2
	02:00-02:05 HOUR	46.2 ^{2/}	45.1 ***	42.7 ^{2/}	43.5 ***	<0.8 ^{3/}
	02:05-02:10 HOUR	47.4 ^{2/}	45.1 ***	46.5 ^{2/}	43.5 ***	3.0
	02:10-02:15 HOUR	47.5 ^{2/}	45.1 ***	46.8 ^{2/}	43.5 ***	3.3
	02:15-02:20 HOUR	45.9 ^{2/}	42.7 ***	46.1 ^{2/}	41.4 ***	4.7
	02:20-02:25 HOUR	46.8 ^{2/}	42.7 ***	47.7 ^{2/}	41.4 ***	6.3
	02:25-02:30 HOUR	47.4 ^{2/}	42.7 ***	48.6 ^{2/}	41.4 ***	7.2
	02:30-02:35 HOUR	44.3 ^{2/}	43.3 ***	40.4 ^{2/}	41.7 ***	<0.8 ^{3/}
	02:35-02:40 HOUR	45.3 ^{2/}	43.3 ***	44.0 ^{2/}	41.7 ***	2.3
	02:40-02:45 HOUR	45.3 ^{2/}	43.3 ***	44.0 ^{2/}	41.7 ***	2.3
	02:45-02:50 HOUR	44.2 ^{2/}	44.3 ***	<0.8 ^{3/}	42.8 ***	<0.8 ^{3/}
	02:50-02:55 HOUR	44.8 ^{2/}	44.3 ***	38.2 ^{2/}	42.8 ***	<0.8 ^{3/}
	02:55-03:00 HOUR	48.8 ^{2/}	44.3 ***	49.9 ^{2/}	42.8 ***	7.1
	03:00-03:05 HOUR	45.2 ^{2/}	42.2 ***	45.2 ^{2/}	40.8 ***	4.4
	03:05-03:10 HOUR	45.5 ^{2/}	42.2 ***	45.8 ^{2/}	40.8 ***	5.0
	03:10-03:15 HOUR	45.5 ^{2/}	42.2 ***	45.8 ^{2/}	40.8 ***	5.0
	03:15-03:20 HOUR	45.0 ^{2/}	44.6 ***	37.4 ^{2/}	42.9 ***	<0.8 ^{3/}
	03:20-03:25 HOUR	45.4 ^{2/}	44.6 ***	40.7 ^{2/}	42.9 ***	<0.8 ^{3/}
	03:25-03:30 HOUR	47.9 ^{2/}	44.6 ***	48.2 ^{2/}	42.9 ***	5.3
	03:30-03:35 HOUR	45.6 ^{2/}	42.9 ***	45.3 ^{2/}	41.5 ***	3.8
	03:35-03:40 HOUR	44.9 ^{2/}	42.9 ***	43.6 ^{2/}	41.5 ***	2.1
	03:40-03:45 HOUR	44.1 ^{2/}	42.9 ***	40.9 ^{2/}	41.5 ***	<0.8 ^{3/}
	03:45-03:50 HOUR	44.6 ^{2/}	42.8 ***	42.9 ^{2/}	41.5 ***	1.4
	03:50-03:55 HOUR	44.6 ^{2/}	42.8 ***	42.9 ^{2/}	41.5 ***	1.4
	03:55-04:00 HOUR	45.9 ^{2/}	42.8 ***	46.0 ^{2/}	41.5 ***	4.5
	04:00-04:05 HOUR	46.9 ^{2/}	43.6 ***	47.2 ^{2/}	42.1 ***	5.1
	04:05-04:10 HOUR	48.0 ^{2/}	43.6 ***	49.0 ^{2/}	42.1 ***	6.9
	04:10-04:15 HOUR	44.6 ^{2/}	43.6 ***	40.7 ^{2/}	42.1 ***	<0.8 ^{3/}
	04:15-04:20 HOUR	47.7 ^{2/}	43.9 ***	48.4 ^{2/}	42.6 ***	5.8
	04:20-04:25 HOUR	44.7 ^{2/}	43.9 ***	40.0 ^{2/}	42.6 ***	<0.8 ^{3/}

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 14, 2025 T25AB234-0002	NIGHT TIME ^{2/}					
	04:25-04:30 HOUR	47.3 ^{2/}	43.9 ***	47.6 ^{2/}	42.6 ***	5.0
	04:30-04:35 HOUR	47.6 ^{2/}	42.8 ***	48.9 ^{2/}	41.3 ***	7.6
	04:35-04:40 HOUR	46.9 ^{2/}	42.8 ***	47.8 ^{2/}	41.3 ***	6.5
	04:40-04:45 HOUR	45.0 ^{2/}	42.8 ***	44.0 ^{2/}	41.3 ***	2.7
	04:45-04:50 HOUR	46.3 ^{2/}	44.2 ***	45.1 ^{2/}	42.6 ***	2.5
	04:50-04:55 HOUR	46.5 ^{2/}	44.2 ***	45.6 ^{2/}	42.6 ***	3.0
	04:55-05:00 HOUR	47.5 ^{2/}	44.2 ***	47.8 ^{2/}	42.6 ***	5.2
	05:00-05:05 HOUR	46.6 ^{2/}	44.5 ***	45.4 ^{2/}	42.8 ***	2.6
	05:05-05:10 HOUR	45.9 ^{2/}	44.5 ***	43.3 ^{2/}	42.8 ***	<0.8 ^{3/}
	05:10-05:15 HOUR	45.4 ^{2/}	44.5 ***	41.1 ^{2/}	42.8 ***	<0.8 ^{3/}
	05:15-05:20 HOUR	47.8 ^{2/}	43.7 ***	48.7 ^{2/}	42.4 ***	6.3
	05:20-05:25 HOUR	46.8 ^{2/}	43.7 ***	46.9 ^{2/}	42.4 ***	4.5
	05:25-05:30 HOUR	48.0 ^{2/}	43.7 ***	49.0 ^{2/}	42.4 ***	6.6
	05:30-05:35 HOUR	45.4 ^{2/}	44.2 ***	42.2 ^{2/}	42.9 ***	<0.8 ^{3/}
	05:35-05:40 HOUR	46.8 ^{2/}	44.2 ***	46.3 ^{2/}	42.9 ***	3.4
	05:40-05:45 HOUR	48.0 ^{2/}	44.2 ***	48.7 ^{2/}	42.9 ***	5.8
	05:45-05:50 HOUR	47.2 ^{2/}	45.2 ***	45.9 ^{2/}	43.9 ***	2.0
	05:50-05:55 HOUR	49.9 ^{2/}	45.2 ***	51.1 ^{2/}	43.9 ***	7.2
	05:55-06:00 HOUR	46.4 ^{2/}	45.2 ***	43.2 ^{2/}	43.9 ***	<0.8 ^{3/}
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	46.6 ^{1/}	44.5 **	42.4 ^{1/}	43.0 **	<0.8 ^{3/}
JANUARY 14, 2025 T25AB234-0003	DAY TIME ^{1/}					
	07:00-08:00 HOUR	49.2 ^{1/}	46.4 **	46.0 ^{1/}	45.0 **	1.0
	08:00-09:00 HOUR	49.2 ^{1/}	46.8 **	45.5 ^{1/}	45.2 **	<0.8 ^{3/}
	09:00-10:00 HOUR	49.7 ^{1/}	47.3 **	46.0 ^{1/}	45.6 **	<0.8 ^{3/}
	10:00-11:00 HOUR	49.9 ^{1/}	47.1 **	46.7 ^{1/}	45.8 **	0.9
	11:00-12:00 HOUR	52.5 ^{1/}	49.3 **	49.7 ^{1/}	47.9 **	1.8
	12:00-13:00 HOUR	53.7 ^{1/}	50.9 **	50.5 ^{1/}	49.5 **	1.0
	13:00-14:00 HOUR	50.1 ^{1/}	47.3 **	46.9 ^{1/}	45.9 **	1.0
	14:00-15:00 HOUR	51.2 ^{1/}	48.5 **	47.9 ^{1/}	47.2 **	<0.8 ^{3/}
	15:00-16:00 HOUR	51.0 ^{1/}	47.8 **	48.2 ^{1/}	46.5 **	1.7
	16:00-17:00 HOUR	50.7 ^{1/}	47.5 **	47.9 ^{1/}	46.0 **	1.9
	17:00-18:00 HOUR	50.1 ^{1/}	47.3 **	46.9 ^{1/}	45.5 **	1.4
	18:00-19:00 HOUR	50.0 ^{1/}	47.0 **	47.0 ^{1/}	45.7 **	1.3
	19:00-20:00 HOUR	49.8 ^{1/}	47.3 **	46.2 ^{1/}	45.8 **	<0.8 ^{3/}
	20:00-21:00 HOUR	50.1 ^{1/}	47.6 **	46.5 ^{1/}	46.3 **	<0.8 ^{3/}
	21:00-22:00 HOUR	49.8 ^{1/}	47.3 **	46.2 ^{1/}	45.9 **	<0.8 ^{3/}
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	49.5 ^{2/}	46.3 ***	49.6 ^{2/}	44.8 ***	4.8
	22:05-22:10 HOUR	50.0 ^{2/}	46.3 ***	50.6 ^{2/}	44.8 ***	5.8
	22:10-22:15 HOUR	48.8 ^{2/}	46.3 ***	48.2 ^{2/}	44.8 ***	3.4
	22:15-22:20 HOUR	48.3 ^{2/}	47.0 ***	45.4 ^{2/}	45.6 ***	<0.8 ^{3/}
	22:20-22:25 HOUR	49.4 ^{2/}	47.0 ***	48.7 ^{2/}	45.6 ***	3.1
	22:25-22:30 HOUR	48.1 ^{2/}	47.0 ***	44.6 ^{2/}	45.6 ***	<0.8 ^{3/}
	22:30-22:35 HOUR	51.3 ^{2/}	47.4 ***	52.0 ^{2/}	45.9 ***	6.1

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 14, 2025 T25AB234-0003	NIGHT TIME ^{2/}					
	22:35-22:40 HOUR	49.9 ^{2/}	47.4 ***	49.3 ^{2/}	45.9 ***	3.4
	22:40-22:45 HOUR	49.1 ^{2/}	47.4 ***	47.2 ^{2/}	45.9 ***	1.3
	22:45-22:50 HOUR	48.7 ^{2/}	47.5 ***	45.5 ^{2/}	46.0 ***	<0.8 ^{3/}
	22:50-22:55 HOUR	49.1 ^{2/}	47.5 ***	47.0 ^{2/}	46.0 ***	1.0
	22:55-23:00 HOUR	50.8 ^{2/}	47.5 ***	51.1 ^{2/}	46.0 ***	5.1
	23:00-23:05 HOUR	51.7 ^{2/}	48.4 ***	52.0 ^{2/}	47.2 ***	4.8
	23:05-23:10 HOUR	50.5 ^{2/}	48.4 ***	49.3 ^{2/}	47.2 ***	2.1
	23:10-23:15 HOUR	50.9 ^{2/}	48.4 ***	50.3 ^{2/}	47.2 ***	3.1
	23:15-23:20 HOUR	50.2 ^{2/}	48.2 ***	48.9 ^{2/}	46.7 ***	2.2
	23:20-23:25 HOUR	49.8 ^{2/}	48.2 ***	47.7 ^{2/}	46.7 ***	1.0
	23:25-23:30 HOUR	49.1 ^{2/}	48.2 ***	44.8 ^{2/}	46.7 ***	<0.8 ^{3/}
	23:30-23:35 HOUR	51.4 ^{2/}	49.4 ***	50.1 ^{2/}	48.1 ***	2.0
	23:35-23:40 HOUR	51.5 ^{2/}	49.4 ***	50.3 ^{2/}	48.1 ***	2.2
	23:40-23:45 HOUR	51.9 ^{2/}	49.4 ***	51.3 ^{2/}	48.1 ***	3.2
	23:45-23:50 HOUR	53.3 ^{2/}	50.2 ***	53.4 ^{2/}	48.8 ***	4.6
	23:50-23:55 HOUR	55.0 ^{2/}	50.2 ***	56.3 ^{2/}	48.8 ***	7.5
	23:55-00:00 HOUR	52.0 ^{2/}	50.2 ***	50.3 ^{2/}	48.8 ***	1.5
JANUARY 15, 2025 T25AB234-0003	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	52.9 ^{2/}	49.1 ***	53.6 ^{2/}	47.8 ***	5.8
	00:05-00:10 HOUR	52.4 ^{2/}	49.1 ***	52.7 ^{2/}	47.8 ***	4.9
	00:10-00:15 HOUR	52.2 ^{2/}	49.1 ***	52.3 ^{2/}	47.8 ***	4.5
	00:15-00:20 HOUR	51.6 ^{2/}	48.1 ***	52.0 ^{2/}	46.7 ***	5.3
	00:20-00:25 HOUR	52.1 ^{2/}	48.1 ***	52.9 ^{2/}	46.7 ***	6.2
	00:25-00:30 HOUR	52.4 ^{2/}	48.1 ***	53.4 ^{2/}	46.7 ***	6.7
	00:30-00:35 HOUR	49.9 ^{2/}	48.7 ***	46.7 ^{2/}	47.1 ***	<0.8 ^{3/}
	00:35-00:40 HOUR	50.3 ^{2/}	48.7 ***	48.2 ^{2/}	47.1 ***	1.1
	00:40-00:45 HOUR	52.1 ^{2/}	48.7 ***	52.4 ^{2/}	47.1 ***	5.3
	00:45-00:50 HOUR	51.6 ^{2/}	47.8 ***	52.3 ^{2/}	46.4 ***	5.9
	00:50-00:55 HOUR	50.8 ^{2/}	47.8 ***	50.7 ^{2/}	46.4 ***	4.3
	00:55-01:00 HOUR	48.3 ^{2/}	47.8 ***	41.7 ^{2/}	46.4 ***	<0.8 ^{3/}
	01:00-01:05 HOUR	47.6 ^{2/}	45.6 ***	46.3 ^{2/}	44.5 ***	1.8
	01:05-01:10 HOUR	49.1 ^{2/}	45.6 ***	49.5 ^{2/}	44.5 ***	5.0
	01:10-01:15 HOUR	47.8 ^{2/}	45.6 ***	46.8 ^{2/}	44.5 ***	2.3
	01:15-01:20 HOUR	49.5 ^{2/}	46.7 ***	49.3 ^{2/}	45.5 ***	3.8
	01:20-01:25 HOUR	49.4 ^{2/}	46.7 ***	49.1 ^{2/}	45.5 ***	3.6
	01:25-01:30 HOUR	51.7 ^{2/}	46.7 ***	53.0 ^{2/}	45.5 ***	7.5
	01:30-01:35 HOUR	47.4 ^{2/}	45.2 ***	46.4 ^{2/}	43.6 ***	2.8
	01:35-01:40 HOUR	48.6 ^{2/}	45.2 ***	48.9 ^{2/}	43.6 ***	5.3
	01:40-01:45 HOUR	47.0 ^{2/}	45.2 ***	45.3 ^{2/}	43.6 ***	1.7
	01:45-01:50 HOUR	49.6 ^{2/}	46.2 ***	49.9 ^{2/}	44.7 ***	5.2
	01:50-01:55 HOUR	48.6 ^{2/}	46.2 ***	47.9 ^{2/}	44.7 ***	3.2
	01:55-02:00 HOUR	50.1 ^{2/}	46.2 ***	50.8 ^{2/}	44.7 ***	6.1
	02:00-02:05 HOUR	49.2 ^{2/}	45.2 ***	50.0 ^{2/}	43.9 ***	6.1
	02:05-02:10 HOUR	48.4 ^{2/}	45.2 ***	48.6 ^{2/}	43.9 ***	4.7

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 15, 2025 T25AB234-0003	NIGHT TIME ^{2/}					
	02:10-02:15 HOUR	48.0 ^{2/}	45.2 ***	47.8 ^{2/}	43.9 ***	3.9
	02:15-02:20 HOUR	46.4 ^{2/}	44.5 ***	44.9 ^{2/}	43.1 ***	1.8
	02:20-02:25 HOUR	46.6 ^{2/}	44.5 ***	45.4 ^{2/}	43.1 ***	2.3
	02:25-02:30 HOUR	47.0 ^{2/}	44.5 ***	46.4 ^{2/}	43.1 ***	3.3
	02:30-02:35 HOUR	46.1 ^{2/}	45.8 ***	37.3 ^{2/}	44.2 ***	<0.8 ^{3/}
	02:35-02:40 HOUR	47.0 ^{2/}	45.8 ***	43.8 ^{2/}	44.2 ***	<0.8 ^{3/}
	02:40-02:45 HOUR	47.8 ^{2/}	45.8 ***	46.5 ^{2/}	44.2 ***	2.3
	02:45-02:50 HOUR	48.8 ^{2/}	45.2 ***	49.3 ^{2/}	43.9 ***	5.4
	02:50-02:55 HOUR	49.1 ^{2/}	45.2 ***	49.8 ^{2/}	43.9 ***	5.9
	02:55-03:00 HOUR	46.9 ^{2/}	45.2 ***	45.0 ^{2/}	43.9 ***	1.1
	03:00-03:05 HOUR	48.7 ^{2/}	46.4 ***	47.8 ^{2/}	44.8 ***	3.0
	03:05-03:10 HOUR	47.8 ^{2/}	46.4 ***	45.2 ^{2/}	44.8 ***	<0.8 ^{3/}
	03:10-03:15 HOUR	47.9 ^{2/}	46.4 ***	45.6 ^{2/}	44.8 ***	0.8
	03:15-03:20 HOUR	49.0 ^{2/}	44.4 ***	50.2 ^{2/}	42.9 ***	7.3
	03:20-03:25 HOUR	46.6 ^{2/}	44.4 ***	45.6 ^{2/}	42.9 ***	2.7
	03:25-03:30 HOUR	45.5 ^{2/}	44.4 ***	42.0 ^{2/}	42.9 ***	<0.8 ^{3/}
	03:30-03:35 HOUR	45.8 ^{2/}	42.9 ***	45.7 ^{2/}	41.4 ***	4.3
	03:35-03:40 HOUR	44.5 ^{2/}	42.9 ***	42.4 ^{2/}	41.4 ***	1.0
	03:40-03:45 HOUR	45.9 ^{2/}	42.9 ***	45.9 ^{2/}	41.4 ***	4.5
	03:45-03:50 HOUR	46.5 ^{2/}	44.8 ***	44.6 ^{2/}	43.5 ***	1.1
	03:50-03:55 HOUR	46.1 ^{2/}	44.8 ***	43.2 ^{2/}	43.5 ***	<0.8 ^{3/}
	03:55-04:00 HOUR	49.2 ^{2/}	44.8 ***	50.2 ^{2/}	43.5 ***	6.7
	04:00-04:05 HOUR	48.6 ^{2/}	44.9 ***	49.2 ^{2/}	43.4 ***	5.8
	04:05-04:10 HOUR	47.4 ^{2/}	44.9 ***	46.8 ^{2/}	43.4 ***	3.4
	04:10-04:15 HOUR	48.0 ^{2/}	44.9 ***	48.1 ^{2/}	43.4 ***	4.7
	04:15-04:20 HOUR	47.4 ^{2/}	43.7 ***	48.0 ^{2/}	42.2 ***	5.8
	04:20-04:25 HOUR	47.3 ^{2/}	43.7 ***	47.8 ^{2/}	42.2 ***	5.6
	04:25-04:30 HOUR	47.1 ^{2/}	43.7 ***	47.4 ^{2/}	42.2 ***	5.2
	04:30-04:35 HOUR	45.7 ^{2/}	43.5 ***	44.7 ^{2/}	42.2 ***	2.5
	04:35-04:40 HOUR	47.5 ^{2/}	43.5 ***	48.3 ^{2/}	42.2 ***	6.1
	04:40-04:45 HOUR	45.7 ^{2/}	43.5 ***	44.7 ^{2/}	42.2 ***	2.5
	04:45-04:50 HOUR	44.5 ^{2/}	42.7 ***	42.8 ^{2/}	41.2 ***	1.6
	04:50-04:55 HOUR	44.4 ^{2/}	42.7 ***	42.5 ^{2/}	41.2 ***	1.3
	04:55-05:00 HOUR	45.6 ^{2/}	42.7 ***	45.5 ^{2/}	41.2 ***	4.3
	05:00-05:05 HOUR	47.3 ^{2/}	43.3 ***	48.1 ^{2/}	41.7 ***	6.4
	05:05-05:10 HOUR	44.5 ^{2/}	43.3 ***	41.3 ^{2/}	41.7 ***	<0.8 ^{3/}
	05:10-05:15 HOUR	44.4 ^{2/}	43.3 ***	40.9 ^{2/}	41.7 ***	<0.8 ^{3/}
	05:15-05:20 HOUR	45.3 ^{2/}	44.8 ***	38.7 ^{2/}	43.4 ***	<0.8 ^{3/}
	05:20-05:25 HOUR	48.1 ^{2/}	44.8 ***	48.4 ^{2/}	43.4 ***	5.0
	05:25-05:30 HOUR	47.3 ^{2/}	44.8 ***	46.7 ^{2/}	43.4 ***	3.3
	05:30-05:35 HOUR	46.0 ^{2/}	44.8 ***	42.8 ^{2/}	43.4 ***	<0.8 ^{3/}
	05:35-05:40 HOUR	48.0 ^{2/}	44.8 ***	48.2 ^{2/}	43.4 ***	4.8
	05:40-05:45 HOUR	46.8 ^{2/}	44.8 ***	45.5 ^{2/}	43.4 ***	2.1
	05:45-05:50 HOUR	46.9 ^{2/}	44.7 ***	45.9 ^{2/}	43.2 ***	2.7

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 15, 2025 T25AB234-0003	NIGHT TIME ^{2/}					
	05:50-05:55 HOUR	45.8 ^{2/}	44.7 ***	42.3 ^{2/}	43.2 ***	<0.8 ^{3/}
	05:55-06:00 HOUR	47.1 ^{2/}	44.7 ***	46.4 ^{2/}	43.2 ***	3.2
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	46.9 ^{1/}	44.5 **	43.2 ^{1/}	42.9 **	<0.8 ^{3/}
JANUARY 15, 2025 T25AB234-0004	DAY TIME ^{1/}					
	07:00-08:00 HOUR	49.9 ^{1/}	46.2 **	47.5 ^{1/}	45.0 **	2.5
	08:00-09:00 HOUR	50.3 ^{1/}	47.7 **	46.8 ^{1/}	46.1 **	<0.8 ^{3/}
	09:00-10:00 HOUR	49.9 ^{1/}	46.9 **	46.9 ^{1/}	45.5 **	1.4
	10:00-11:00 HOUR	49.5 ^{1/}	46.8 **	46.2 ^{1/}	45.5 **	<0.8 ^{3/}
	11:00-12:00 HOUR	52.2 ^{1/}	48.7 **	49.6 ^{1/}	47.1 **	2.5
	12:00-13:00 HOUR	51.4 ^{1/}	48.3 **	48.5 ^{1/}	46.9 **	1.6
	13:00-14:00 HOUR	50.4 ^{1/}	47.7 **	47.1 ^{1/}	46.2 **	0.9
	14:00-15:00 HOUR	49.8 ^{1/}	46.9 **	46.7 ^{1/}	45.5 **	1.2
	15:00-16:00 HOUR	50.0 ^{1/}	46.9 **	47.1 ^{1/}	45.7 **	1.4
	16:00-17:00 HOUR	50.1 ^{1/}	47.0 **	47.2 ^{1/}	45.8 **	1.4
	17:00-18:00 HOUR	49.9 ^{1/}	47.4 **	46.3 ^{1/}	46.0 **	<0.8 ^{3/}
	18:00-19:00 HOUR	50.1 ^{1/}	47.5 **	46.6 ^{1/}	46.0 **	<0.8 ^{3/}
	19:00-20:00 HOUR	49.7 ^{1/}	46.6 **	46.8 ^{1/}	45.4 **	1.4
	20:00-21:00 HOUR	49.4 ^{1/}	46.4 **	46.4 ^{1/}	45.1 **	1.3
	21:00-22:00 HOUR	50.3 ^{1/}	47.2 **	47.4 ^{1/}	45.8 **	1.6
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	51.4 ^{2/}	47.8 ***	51.9 ^{2/}	46.4 ***	5.5
	22:05-22:10 HOUR	52.5 ^{2/}	47.8 ***	53.7 ^{2/}	46.4 ***	7.3
	22:10-22:15 HOUR	49.1 ^{2/}	47.8 ***	46.2 ^{2/}	46.4 ***	<0.8 ^{3/}
	22:15-22:20 HOUR	49.3 ^{2/}	47.6 ***	47.4 ^{2/}	46.1 ***	1.3
	22:20-22:25 HOUR	50.0 ^{2/}	47.6 ***	49.3 ^{2/}	46.1 ***	3.2
	22:25-22:30 HOUR	49.5 ^{2/}	47.6 ***	48.0 ^{2/}	46.1 ***	1.9
	22:30-22:35 HOUR	51.3 ^{2/}	47.3 ***	52.1 ^{2/}	45.9 ***	6.2
	22:35-22:40 HOUR	49.3 ^{2/}	47.3 ***	48.0 ^{2/}	45.9 ***	2.1
	22:40-22:45 HOUR	51.6 ^{2/}	47.3 ***	52.6 ^{2/}	45.9 ***	6.7
	22:45-22:50 HOUR	50.4 ^{2/}	46.3 ***	51.3 ^{2/}	44.8 ***	6.5
	22:50-22:55 HOUR	49.4 ^{2/}	46.3 ***	49.5 ^{2/}	44.8 ***	4.7
	22:55-23:00 HOUR	48.8 ^{2/}	46.3 ***	48.2 ^{2/}	44.8 ***	3.4
	23:00-23:05 HOUR	49.3 ^{2/}	47.8 ***	47.0 ^{2/}	46.4 ***	<0.8 ^{3/}
	23:05-23:10 HOUR	49.2 ^{2/}	47.8 ***	46.6 ^{2/}	46.4 ***	<0.8 ^{3/}
	23:10-23:15 HOUR	48.8 ^{2/}	47.8 ***	44.9 ^{2/}	46.4 ***	<0.8 ^{3/}
	23:15-23:20 HOUR	52.4 ^{2/}	47.9 ***	53.5 ^{2/}	46.6 ***	6.9
	23:20-23:25 HOUR	50.9 ^{2/}	47.9 ***	50.9 ^{2/}	46.6 ***	4.3
	23:25-23:30 HOUR	50.3 ^{2/}	47.9 ***	49.6 ^{2/}	46.6 ***	3.0
	23:30-23:35 HOUR	52.2 ^{2/}	47.7 ***	53.3 ^{2/}	46.3 ***	7.0
	23:35-23:40 HOUR	51.9 ^{2/}	47.7 ***	52.8 ^{2/}	46.3 ***	6.5
	23:40-23:45 HOUR	50.4 ^{2/}	47.7 ***	50.1 ^{2/}	46.3 ***	3.8
	23:45-23:50 HOUR	49.5 ^{2/}	48.0 ***	47.2 ^{2/}	46.4 ***	0.8
	23:50-23:55 HOUR	49.4 ^{2/}	48.0 ***	46.8 ^{2/}	46.4 ***	<0.8 ^{3/}
	23:55-00:00 HOUR	52.1 ^{2/}	48.0 ***	53.0 ^{2/}	46.4 ***	6.6

DATE	TIME*	RESULT (dB(A))				
		มาตรฐานกลาง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 16, 2025 T25AB234-0004	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	51.5 ^{2/}	49.3 ***	50.5 ^{2/}	48.0 ***	2.5
	00:05-00:10 HOUR	54.0 ^{2/}	49.3 ***	55.2 ^{2/}	48.0 ***	7.2
	00:10-00:15 HOUR	53.1 ^{2/}	49.3 ***	53.8 ^{2/}	48.0 ***	5.8
	00:15-00:20 HOUR	51.7 ^{2/}	48.8 ***	51.6 ^{2/}	47.5 ***	4.1
	00:20-00:25 HOUR	50.0 ^{2/}	48.8 ***	46.8 ^{2/}	47.5 ***	<0.8 ^{3/}
	00:25-00:30 HOUR	51.5 ^{2/}	48.8 ***	51.2 ^{2/}	47.5 ***	3.7
	00:30-00:35 HOUR	52.0 ^{2/}	48.5 ***	52.4 ^{2/}	47.0 ***	5.4
	00:35-00:40 HOUR	52.8 ^{2/}	48.5 ***	53.8 ^{2/}	47.0 ***	6.8
	00:40-00:45 HOUR	50.0 ^{2/}	48.5 ***	47.7 ^{2/}	47.0 ***	<0.8 ^{3/}
	00:45-00:50 HOUR	47.9 ^{2/}	46.0 ***	46.4 ^{2/}	44.6 ***	1.8
	00:50-00:55 HOUR	48.5 ^{2/}	46.0 ***	47.9 ^{2/}	44.6 ***	3.3
	00:55-01:00 HOUR	49.5 ^{2/}	46.0 ***	49.9 ^{2/}	44.6 ***	5.3
	01:00-01:05 HOUR	49.1 ^{2/}	47.0 ***	47.9 ^{2/}	45.7 ***	2.2
	01:05-01:10 HOUR	49.1 ^{2/}	47.0 ***	47.9 ^{2/}	45.7 ***	2.2
	01:10-01:15 HOUR	48.7 ^{2/}	47.0 ***	46.8 ^{2/}	45.7 ***	1.1
	01:15-01:20 HOUR	48.0 ^{2/}	47.0 ***	44.1 ^{2/}	45.7 ***	<0.8 ^{3/}
	01:20-01:25 HOUR	50.9 ^{2/}	47.0 ***	51.6 ^{2/}	45.7 ***	5.9
	01:25-01:30 HOUR	48.8 ^{2/}	47.0 ***	47.1 ^{2/}	45.7 ***	1.4
	01:30-01:35 HOUR	46.4 ^{2/}	45.7 ***	41.1 ^{2/}	44.2 ***	<0.8 ^{3/}
	01:35-01:40 HOUR	46.3 ^{2/}	45.7 ***	40.4 ^{2/}	44.2 ***	<0.8 ^{3/}
	01:40-01:45 HOUR	49.7 ^{2/}	45.7 ***	50.5 ^{2/}	44.2 ***	6.3
	01:45-01:50 HOUR	49.1 ^{2/}	48.0 ***	45.6 ^{2/}	46.6 ***	<0.8 ^{3/}
	01:50-01:55 HOUR	48.3 ^{2/}	48.0 ***	39.5 ^{2/}	46.6 ***	<0.8 ^{3/}
	01:55-02:00 HOUR	51.3 ^{2/}	48.0 ***	51.6 ^{2/}	46.6 ***	5.0
	02:00-02:05 HOUR	49.2 ^{2/}	47.0 ***	48.2 ^{2/}	45.7 ***	2.5
	02:05-02:10 HOUR	49.7 ^{2/}	47.0 ***	49.4 ^{2/}	45.7 ***	3.7
	02:10-02:15 HOUR	51.4 ^{2/}	47.0 ***	52.4 ^{2/}	45.7 ***	6.7
	02:15-02:20 HOUR	49.8 ^{2/}	47.8 ***	48.5 ^{2/}	46.5 ***	2.0
	02:20-02:25 HOUR	48.1 ^{2/}	47.8 ***	39.3 ^{2/}	46.5 ***	<0.8 ^{3/}
	02:25-02:30 HOUR	50.1 ^{2/}	47.8 ***	49.2 ^{2/}	46.5 ***	2.7
	02:30-02:35 HOUR	51.0 ^{2/}	46.9 ***	51.9 ^{2/}	45.5 ***	6.4
	02:35-02:40 HOUR	50.5 ^{2/}	46.9 ***	51.0 ^{2/}	45.5 ***	5.5
	02:40-02:45 HOUR	51.5 ^{2/}	46.9 ***	52.7 ^{2/}	45.5 ***	7.2
	02:45-02:50 HOUR	49.7 ^{2/}	48.2 ***	47.4 ^{2/}	46.7 ***	<0.8 ^{3/}
	02:50-02:55 HOUR	48.5 ^{2/}	48.2 ***	39.7 ^{2/}	46.7 ***	<0.8 ^{3/}
	02:55-03:00 HOUR	49.6 ^{2/}	48.2 ***	47.0 ^{2/}	46.7 ***	<0.8 ^{3/}
	03:00-03:05 HOUR	51.0 ^{2/}	47.2 ***	51.7 ^{2/}	45.9 ***	5.8
	03:05-03:10 HOUR	50.0 ^{2/}	47.2 ***	49.8 ^{2/}	45.9 ***	3.9
	03:10-03:15 HOUR	49.7 ^{2/}	47.2 ***	49.1 ^{2/}	45.9 ***	3.2
	03:15-03:20 HOUR	49.0 ^{2/}	45.3 ***	49.6 ^{2/}	44.0 ***	5.6
	03:20-03:25 HOUR	49.3 ^{2/}	45.3 ***	50.1 ^{2/}	44.0 ***	6.1
	03:25-03:30 HOUR	48.8 ^{2/}	45.3 ***	49.2 ^{2/}	44.0 ***	5.2
	03:30-03:35 HOUR	47.9 ^{2/}	44.8 ***	48.0 ^{2/}	43.4 ***	4.6
	03:35-03:40 HOUR	46.8 ^{2/}	44.8 ***	45.5 ^{2/}	43.4 ***	2.1

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 16, 2025 T25AB234-0004	NIGHT TIME ^{2/}					
	03:40-03:45 HOUR	47.0 ^{2/}	44.8 ***	46.0 ^{2/}	43.4 ***	2.6
	03:45-03:50 HOUR	49.1 ^{2/}	45.5 ***	49.6 ^{2/}	44.2 ***	5.4
	03:50-03:55 HOUR	47.0 ^{2/}	45.5 ***	44.7 ^{2/}	44.2 ***	<0.8 ^{3/}
	03:55-04:00 HOUR	47.4 ^{2/}	45.5 ***	45.9 ^{2/}	44.2 ***	1.7
	04:00-04:05 HOUR	46.9 ^{2/}	46.3 ***	41.0 ^{2/}	44.8 ***	<0.8 ^{3/}
	04:05-04:10 HOUR	50.0 ^{2/}	46.3 ***	50.6 ^{2/}	44.8 ***	5.8
	04:10-04:15 HOUR	47.0 ^{2/}	46.3 ***	41.7 ^{2/}	44.8 ***	<0.8 ^{3/}
	04:15-04:20 HOUR	46.6 ^{2/}	46.1 ***	40.0 ^{2/}	44.7 ***	<0.8 ^{3/}
	04:20-04:25 HOUR	47.8 ^{2/}	46.1 ***	45.7 ^{2/}	44.7 ***	1.0
	04:25-04:30 HOUR	47.4 ^{2/}	46.1 ***	44.5 ^{2/}	44.7 ***	<0.8 ^{3/}
	04:30-04:35 HOUR	47.6 ^{2/}	45.2 ***	46.9 ^{2/}	43.9 ***	3.0
	04:35-04:40 HOUR	48.5 ^{2/}	45.2 ***	48.8 ^{2/}	43.9 ***	4.9
	04:40-04:45 HOUR	47.9 ^{2/}	45.2 ***	47.6 ^{2/}	43.9 ***	3.7
	04:45-04:50 HOUR	49.4 ^{2/}	45.2 ***	50.3 ^{2/}	43.9 ***	6.4
	04:50-04:55 HOUR	47.1 ^{2/}	45.2 ***	45.6 ^{2/}	43.9 ***	1.7
	04:55-05:00 HOUR	49.9 ^{2/}	45.2 ***	51.1 ^{2/}	43.9 ***	7.2
	05:00-05:05 HOUR	47.4 ^{2/}	45.2 ***	46.4 ^{2/}	43.8 ***	2.6
	05:05-05:10 HOUR	47.8 ^{2/}	45.2 ***	47.3 ^{2/}	43.8 ***	3.5
	05:10-05:15 HOUR	48.4 ^{2/}	45.2 ***	48.6 ^{2/}	43.8 ***	4.8
	05:15-05:20 HOUR	47.7 ^{2/}	45.7 ***	46.4 ^{2/}	44.0 ***	2.4
	05:20-05:25 HOUR	48.7 ^{2/}	45.7 ***	48.7 ^{2/}	44.0 ***	4.7
	05:25-05:30 HOUR	50.1 ^{2/}	45.7 ***	51.1 ^{2/}	44.0 ***	7.1
	05:30-05:35 HOUR	46.7 ^{2/}	44.3 ***	46.0 ^{2/}	43.0 ***	3.0
	05:35-05:40 HOUR	48.5 ^{2/}	44.3 ***	49.4 ^{2/}	43.0 ***	6.4
	05:40-05:45 HOUR	47.7 ^{2/}	44.3 ***	48.0 ^{2/}	43.0 ***	5.0
	05:45-05:50 HOUR	47.0 ^{2/}	46.4 ***	41.1 ^{2/}	45.1 ***	<0.8 ^{3/}
	05:50-05:55 HOUR	48.3 ^{2/}	46.4 ***	46.8 ^{2/}	45.1 ***	1.7
	05:55-06:00 HOUR	48.6 ^{2/}	46.4 ***	47.6 ^{2/}	45.1 ***	2.5
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	48.0 ^{1/}	45.1 **	44.9 ^{1/}	43.7 **	1.2
JANUARY 16, 2025 T25AB234-0005	DAY TIME ^{1/}					
	07:00-08:00 HOUR	49.9 ^{1/}	46.9 **	46.9 ^{1/}	45.6 **	1.3
	08:00-09:00 HOUR	50.2 ^{1/}	47.0 **	47.4 ^{1/}	45.7 **	1.7
	09:00-10:00 HOUR	53.6 ^{1/}	48.7 **	51.9 ^{1/}	47.4 **	4.5
	10:00-11:00 HOUR	50.6 ^{1/}	48.0 **	47.1 ^{1/}	46.6 **	<0.8 ^{3/}
	11:00-12:00 HOUR	51.3 ^{1/}	48.3 **	48.3 ^{1/}	47.1 **	1.2
	12:00-13:00 HOUR	50.6 ^{1/}	47.4 **	47.8 ^{1/}	46.0 **	1.8
	13:00-14:00 HOUR	51.2 ^{1/}	47.6 **	48.7 ^{1/}	46.4 **	2.3
	14:00-15:00 HOUR	50.5 ^{1/}	47.7 **	47.3 ^{1/}	46.3 **	1.0
	15:00-16:00 HOUR	50.2 ^{1/}	47.3 **	47.1 ^{1/}	46.0 **	1.1
	16:00-17:00 HOUR	51.8 ^{1/}	48.6 **	49.0 ^{1/}	46.9 **	2.1
	17:00-18:00 HOUR	55.5 ^{1/}	49.7 **	54.2 ^{1/}	48.5 **	5.7
	18:00-19:00 HOUR	51.2 ^{1/}	47.3 **	48.9 ^{1/}	45.7 **	3.2
	19:00-20:00 HOUR	49.8 ^{1/}	46.5 **	47.1 ^{1/}	45.4 **	1.7
	20:00-21:00 HOUR	49.5 ^{1/}	45.9 **	47.0 ^{1/}	44.8 **	2.2

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 16, 2025 T25AB234-0005	DAY TIME ^{1/}					
	21:00-22:00 HOUR	48.5 ^{1/}	45.2 **	45.8 ^{1/}	43.9 **	1.9
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	46.2 ^{2/}	43.8 ***	45.5 ^{2/}	42.5 ***	3.0
	22:05-22:10 HOUR	45.6 ^{2/}	43.8 ***	43.9 ^{2/}	42.5 ***	1.4
	22:10-22:15 HOUR	44.4 ^{2/}	43.8 ***	38.5 ^{2/}	42.5 ***	<0.8 ^{3/}
	22:15-22:20 HOUR	47.8 ^{2/}	43.2 ***	49.0 ^{2/}	41.9 ***	7.1
	22:20-22:25 HOUR	46.6 ^{2/}	43.2 ***	46.9 ^{2/}	41.9 ***	5.0
	22:25-22:30 HOUR	45.9 ^{2/}	43.2 ***	45.6 ^{2/}	41.9 ***	3.7
	22:30-22:35 HOUR	45.0 ^{2/}	44.0 ***	41.1 ^{2/}	42.4 ***	<0.8 ^{3/}
	22:35-22:40 HOUR	47.8 ^{2/}	44.0 ***	48.5 ^{2/}	42.4 ***	6.1
	22:40-22:45 HOUR	44.3 ^{2/}	44.0 ***	35.5 ^{2/}	42.4 ***	<0.8 ^{3/}
	22:45-22:50 HOUR	48.0 ^{2/}	45.3 ***	47.7 ^{2/}	44.0 ***	3.7
	22:50-22:55 HOUR	46.8 ^{2/}	45.3 ***	44.5 ^{2/}	44.0 ***	<0.8 ^{3/}
	22:55-23:00 HOUR	46.5 ^{2/}	45.3 ***	43.3 ^{2/}	44.0 ***	<0.8 ^{3/}
	23:00-23:05 HOUR	49.8 ^{2/}	45.0 ***	51.1 ^{2/}	43.6 ***	7.5
	23:05-23:10 HOUR	48.4 ^{2/}	45.0 ***	48.7 ^{2/}	43.6 ***	5.1
	23:10-23:15 HOUR	47.3 ^{2/}	45.0 ***	46.4 ^{2/}	43.6 ***	2.8
	23:15-23:20 HOUR	49.6 ^{2/}	45.0 ***	50.8 ^{2/}	43.8 ***	7.0
	23:20-23:25 HOUR	46.7 ^{2/}	45.0 ***	44.8 ^{2/}	43.8 ***	1.0
	23:25-23:30 HOUR	46.2 ^{2/}	45.0 ***	43.0 ^{2/}	43.8 ***	<0.8 ^{3/}
	23:30-23:35 HOUR	47.1 ^{2/}	44.1 ***	47.1 ^{2/}	42.8 ***	4.3
	23:35-23:40 HOUR	47.6 ^{2/}	44.1 ***	48.0 ^{2/}	42.8 ***	5.2
	23:40-23:45 HOUR	47.1 ^{2/}	44.1 ***	47.1 ^{2/}	42.8 ***	4.3
	23:45-23:50 HOUR	47.1 ^{2/}	46.5 ***	41.2 ^{2/}	45.0 ***	<0.8 ^{3/}
	23:50-23:55 HOUR	49.3 ^{2/}	46.5 ***	49.1 ^{2/}	45.0 ***	4.1
	23:55-00:00 HOUR	48.8 ^{2/}	46.5 ***	47.9 ^{2/}	45.0 ***	2.9
JANUARY 17, 2025 T25AB234-0005	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	49.8 ^{2/}	45.4 ***	50.8 ^{2/}	43.8 ***	7.0
	00:05-00:10 HOUR	49.2 ^{2/}	45.4 ***	49.9 ^{2/}	43.8 ***	6.1
	00:10-00:15 HOUR	47.6 ^{2/}	45.4 ***	46.6 ^{2/}	43.8 ***	2.8
	00:15-00:20 HOUR	48.9 ^{2/}	46.4 ***	48.3 ^{2/}	44.9 ***	3.4
	00:20-00:25 HOUR	48.2 ^{2/}	46.4 ***	46.5 ^{2/}	44.9 ***	1.6
	00:25-00:30 HOUR	48.0 ^{2/}	46.4 ***	45.9 ^{2/}	44.9 ***	1.0
	00:30-00:35 HOUR	48.2 ^{2/}	47.2 ***	44.3 ^{2/}	45.8 ***	<0.8 ^{3/}
	00:35-00:40 HOUR	49.3 ^{2/}	47.2 ***	48.1 ^{2/}	45.8 ***	2.3
	00:40-00:45 HOUR	49.8 ^{2/}	47.2 ***	49.3 ^{2/}	45.8 ***	3.5
	00:45-00:50 HOUR	49.4 ^{2/}	45.0 ***	50.4 ^{2/}	43.7 ***	6.7
	00:50-00:55 HOUR	46.4 ^{2/}	45.0 ***	43.8 ^{2/}	43.7 ***	<0.8 ^{3/}
	00:55-01:00 HOUR	47.6 ^{2/}	45.0 ***	47.1 ^{2/}	43.7 ***	3.4
	01:00-01:05 HOUR	45.7 ^{2/}	45.6 ***	32.3 ^{2/}	44.3 ***	<0.8 ^{3/}
	01:05-01:10 HOUR	48.0 ^{2/}	45.6 ***	47.3 ^{2/}	44.3 ***	3.0
	01:10-01:15 HOUR	48.8 ^{2/}	45.6 ***	49.0 ^{2/}	44.3 ***	4.7
	01:15-01:20 HOUR	46.7 ^{2/}	44.2 ***	46.1 ^{2/}	42.8 ***	3.3
	01:20-01:25 HOUR	48.3 ^{2/}	44.2 ***	49.2 ^{2/}	42.8 ***	6.4
	01:25-01:30 HOUR	46.1 ^{2/}	44.2 ***	44.6 ^{2/}	42.8 ***	1.8

DATE	TIME*	RESULT (dB(A))				
		มาตรฐานของ				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 17, 2025 T25AB234-0005	NIGHT TIME ^{2/}					
	01:30-01:35 HOUR	48.3 ^{2/}	45.6 ***	48.0 ^{2/}	44.2 ***	3.8
	01:35-01:40 HOUR	46.5 ^{2/}	45.6 ***	42.2 ^{2/}	44.2 ***	<0.8 ^{3/}
	01:40-01:45 HOUR	46.6 ^{2/}	45.6 ***	42.7 ^{2/}	44.2 ***	<0.8 ^{3/}
	01:45-01:50 HOUR	49.8 ^{2/}	45.4 ***	50.8 ^{2/}	44.2 ***	6.6
	01:50-01:55 HOUR	47.1 ^{2/}	45.4 ***	45.2 ^{2/}	44.2 ***	1.0
	01:55-02:00 HOUR	48.5 ^{2/}	45.4 ***	48.6 ^{2/}	44.2 ***	4.4
	02:00-02:05 HOUR	46.8 ^{2/}	45.1 ***	44.9 ^{2/}	43.9 ***	1.0
	02:05-02:10 HOUR	47.7 ^{2/}	45.1 ***	47.2 ^{2/}	43.9 ***	3.3
	02:10-02:15 HOUR	47.3 ^{2/}	45.1 ***	46.3 ^{2/}	43.9 ***	2.4
	02:15-02:20 HOUR	48.9 ^{2/}	50.6 ***	<0.8 ^{3/}	49.0 ***	<0.8 ^{3/}
	02:20-02:25 HOUR	52.0 ^{2/}	50.6 ***	49.4 ^{2/}	49.0 ***	<0.8 ^{3/}
	02:25-02:30 HOUR	46.9 ^{2/}	50.6 ***	<0.8 ^{3/}	49.0 ***	<0.8 ^{3/}
	02:30-02:35 HOUR	46.1 ^{2/}	43.1 ***	46.1 ^{2/}	41.7 ***	4.4
	02:35-02:40 HOUR	45.9 ^{2/}	43.1 ***	45.7 ^{2/}	41.7 ***	4.0
	02:40-02:45 HOUR	47.1 ^{2/}	43.1 ***	47.9 ^{2/}	41.7 ***	6.2
	02:45-02:50 HOUR	46.6 ^{2/}	46.6 ***	<0.8 ^{3/}	45.4 ***	<0.8 ^{3/}
	02:50-02:55 HOUR	50.6 ^{2/}	46.6 ***	51.4 ^{2/}	45.4 ***	6.0
	02:55-03:00 HOUR	48.5 ^{2/}	46.6 ***	47.0 ^{2/}	45.4 ***	1.6
	03:00-03:05 HOUR	50.9 ^{2/}	46.4 ***	52.0 ^{2/}	45.0 ***	7.0
	03:05-03:10 HOUR	47.1 ^{2/}	46.4 ***	41.8 ^{2/}	45.0 ***	<0.8 ^{3/}
	03:10-03:15 HOUR	47.8 ^{2/}	46.4 ***	45.2 ^{2/}	45.0 ***	<0.8 ^{3/}
	03:15-03:20 HOUR	47.9 ^{2/}	46.7 ***	44.7 ^{2/}	45.3 ***	<0.8 ^{3/}
	03:20-03:25 HOUR	49.4 ^{2/}	46.7 ***	49.1 ^{2/}	45.3 ***	3.8
	03:25-03:30 HOUR	50.4 ^{2/}	46.7 ***	51.0 ^{2/}	45.3 ***	5.7
	03:30-03:35 HOUR	46.5 ^{2/}	44.0 ***	45.9 ^{2/}	42.7 ***	3.2
	03:35-03:40 HOUR	46.4 ^{2/}	44.0 ***	45.7 ^{2/}	42.7 ***	3.0
	03:40-03:45 HOUR	46.6 ^{2/}	44.0 ***	46.1 ^{2/}	42.7 ***	3.4
	03:45-03:50 HOUR	47.9 ^{2/}	46.4 ***	45.6 ^{2/}	44.7 ***	0.9
	03:50-03:55 HOUR	48.6 ^{2/}	46.4 ***	47.6 ^{2/}	44.7 ***	2.9
	03:55-04:00 HOUR	49.0 ^{2/}	46.4 ***	48.5 ^{2/}	44.7 ***	3.8
	04:00-04:05 HOUR	46.9 ^{2/}	45.6 ***	44.0 ^{2/}	44.1 ***	<0.8 ^{3/}
	04:05-04:10 HOUR	48.0 ^{2/}	45.6 ***	47.2 ^{2/}	44.1 ***	3.1
	04:10-04:15 HOUR	47.1 ^{2/}	45.6 ***	44.8 ^{2/}	44.1 ***	<0.8 ^{3/}
	04:15-04:20 HOUR	48.8 ^{2/}	44.7 ***	49.7 ^{2/}	43.1 ***	6.6
	04:20-04:25 HOUR	46.4 ^{2/}	44.7 ***	44.5 ^{2/}	43.1 ***	1.4
	04:25-04:30 HOUR	46.8 ^{2/}	44.7 ***	45.6 ^{2/}	43.1 ***	2.5
	04:30-04:35 HOUR	49.0 ^{2/}	46.5 ***	48.4 ^{2/}	45.4 ***	3.0
	04:35-04:40 HOUR	49.9 ^{2/}	46.5 ***	50.2 ^{2/}	45.4 ***	4.8
	04:40-04:45 HOUR	48.9 ^{2/}	46.5 ***	48.2 ^{2/}	45.4 ***	2.8
	04:45-04:50 HOUR	47.4 ^{2/}	44.7 ***	47.1 ^{2/}	43.2 ***	3.9
	04:50-04:55 HOUR	48.3 ^{2/}	44.7 ***	48.8 ^{2/}	43.2 ***	5.6
	04:55-05:00 HOUR	47.6 ^{2/}	44.7 ***	47.5 ^{2/}	43.2 ***	4.3
	05:00-05:05 HOUR	45.6 ^{2/}	43.7 ***	44.1 ^{2/}	42.3 ***	1.8
	05:05-05:10 HOUR	46.4 ^{2/}	43.7 ***	46.1 ^{2/}	42.3 ***	3.8

DATE	TIME*	RESULT (dB(A))				
		บ้านคิลาทอง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 17, 2025 T25AB234-0005	NIGHT TIME ^{2/}					
	05:10-05:15 HOUR	48.0 ^{2/}	43.7 ***	49.0 ^{2/}	42.3 ***	6.7
	05:15-05:20 HOUR	45.7 ^{2/}	43.6 ***	44.5 ^{2/}	42.1 ***	2.4
	05:20-05:25 HOUR	44.9 ^{2/}	43.6 ***	42.0 ^{2/}	42.1 ***	<0.8 ^{3/}
	05:25-05:30 HOUR	47.9 ^{2/}	43.6 ***	48.9 ^{2/}	42.1 ***	6.8
	05:30-05:35 HOUR	44.3 ^{2/}	40.9 ***	44.6 ^{2/}	39.7 ***	4.9
	05:35-05:40 HOUR	44.0 ^{2/}	40.9 ***	44.1 ^{2/}	39.7 ***	4.4
	05:40-05:45 HOUR	44.2 ^{2/}	40.9 ***	44.5 ^{2/}	39.7 ***	4.8
	05:45-05:50 HOUR	45.1 ^{2/}	43.0 ***	43.9 ^{2/}	41.7 ***	2.2
	05:50-05:55 HOUR	47.8 ^{2/}	43.0 ***	49.1 ^{2/}	41.7 ***	7.4
	05:55-06:00 HOUR	44.5 ^{2/}	43.0 ***	42.2 ^{2/}	41.7 ***	<0.8 ^{3/}
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	46.3 ^{1/}	43.3 **	43.3 ^{1/}	42.0 **	1.3

- REMARK :**
- 1/ CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC SOUND LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR, MEASURING AS L_{Aeq} 1 hour.
 - 2/ CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR) : SPECIFIC SOUND LEVEL OCCUR IN RESTFUL AREA OR NIGHT TIME, MEASURING AS L_{Aeq} 5 minutes.
 - 3/ THERE IS NO IMPACT CAUSE ANNOYANCE SOUND LEVEL
- *** PERCENTILE LEVEL 90 (L_{A90}) IS THE MIDDLE VALUE OF 11 TIMES MEASURING.
(55 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
- *** PERCENTILE LEVEL 90 (L_{A90}) IS THE MIDDLE VALUE OF 3 TIMES MEASURING.
(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
- **** ISO 1996-1 : 2016
- **** THE NATIONAL ENVIRONMENT COMMITTEE ANNOUNCEMENT NO. 29 (B.E. 2550) REGARDING NOISE LEVEL STANDARDS, DATED JUNE 29, B.E. 2550 (2007)
- **** THE ANNOUNCEMENT FROM THE POLLUTION CONTROL COMMITTEE TITLED "METHODS FOR MEASURING BASELINE NOISE LEVELS, NOISE LEVELS DURING NON-INTERFERENCE, MEASUREMENT AND CALCULATION OF NOISE LEVELS DURING INTERFERENCE, CALCULATION OF NOISE INTERFERENCE LEVELS, AND NOISE MEASUREMENT RECORD FORMS, DATED SEPTEMBER 21, B.E. 2565 (2022).
- **** THE MINISTRY OF INDUSTRY ANNOUNCEMENT (B.E. 2548) REGARDING "DETERMINATION OF NOISE LEVELS FOR INDUSTRIAL OPERATIONS AND NOISE LEVELS GENERATED BY FACTORY ACTIVITIES," DATED DECEMBER 27, B.E. 2548 (2005).
- **** THE DEPARTMENT OF INDUSTRIAL WORKS ANNOUNCEMENT REGARDING "METHODS FOR MEASURING NOISE LEVELS 24-HOUR AVERAGE NOISE LEVELS, AND MAXIMUM NOISE LEVELS GENERATED BY INDUSTRIAL OPERATIONS, " DATED DECEMBER 20, B.E. 2553 (2010).

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trgroup.com
MEASURING PLACE : บ้านห้วยหมื่น
MEASURING TYPE : AMBIENT (ANNOYANCE SOUND LEVEL)
MEASURING DATE : JANUARY 12-17, 2025
MEASURING TIME : *
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND CALCULATION****
MEASURED BY : MR JIRAWAT SUKKASEM

RECEIVED DATE : JANUARY 12-17, 2025
ANALYTICAL DATE : JANUARY 12-17, 2025
ISSUE DATE : JANUARY 27, 2025
REPORT NO. : 2025-U006635
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB234-0006 - T25AB234-0010

DATE	TIME*	RESULT (dB(A))				
		บ้านห้วยหมื่น				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 12, 2025	DAY TIME ^{1/}					
T25AB234-0006	07:00-08:00 HOUR	60.6 ^{1/}	57.1 **	58.0 ^{1/}	55.7 **	2.3
	08:00-09:00 HOUR	59.6 ^{1/}	55.3 **	57.6 ^{1/}	53.7 **	3.9
	09:00-10:00 HOUR	58.8 ^{1/}	55.6 **	56.0 ^{1/}	54.3 **	1.7
	10:00-11:00 HOUR	56.5 ^{1/}	53.5 **	53.5 ^{1/}	52.3 **	1.2
	11:00-12:00 HOUR	56.4 ^{1/}	53.1 **	53.7 ^{1/}	51.8 **	1.9
	12:00-13:00 HOUR	54.8 ^{1/}	51.7 **	51.9 ^{1/}	50.0 **	1.9
	13:00-14:00 HOUR	55.1 ^{1/}	52.4 **	51.8 ^{1/}	51.0 **	0.8
	14:00-15:00 HOUR	55.0 ^{1/}	51.6 **	52.3 ^{1/}	50.5 **	1.8
	15:00-16:00 HOUR	54.7 ^{1/}	51.9 **	51.5 ^{1/}	50.4 **	1.1
	16:00-17:00 HOUR	54.4 ^{1/}	51.5 **	51.3 ^{1/}	50.3 **	1.0
	17:00-18:00 HOUR	54.4 ^{1/}	51.7 **	51.1 ^{1/}	50.4 **	<0.8 ^{3/}
	18:00-19:00 HOUR	53.8 ^{1/}	50.9 **	50.7 ^{1/}	49.6 **	1.1
	19:00-20:00 HOUR	54.3 ^{1/}	51.1 **	51.5 ^{1/}	49.8 **	1.7
	20:00-21:00 HOUR	53.5 ^{1/}	50.4 **	50.6 ^{1/}	48.8 **	1.8
	21:00-22:00 HOUR	53.3 ^{1/}	49.8 **	50.7 ^{1/}	48.4 **	2.3
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	52.2 ^{2/}	48.1 ***	53.1 ^{2/}	46.8 ***	6.3
	22:05-22:10 HOUR	50.3 ^{2/}	48.1 ***	49.3 ^{2/}	46.8 ***	2.5
	22:10-22:15 HOUR	52.1 ^{2/}	48.1 ***	52.9 ^{2/}	46.8 ***	6.1
	22:15-22:20 HOUR	49.5 ^{2/}	49.1 ***	41.9 ^{2/}	47.9 ***	<0.8 ^{3/}
	22:20-22:25 HOUR	49.5 ^{2/}	49.1 ***	41.9 ^{2/}	47.9 ***	<0.8 ^{3/}
	22:25-22:30 HOUR	52.7 ^{2/}	49.1 ***	53.2 ^{2/}	47.9 ***	5.3
	22:30-22:35 HOUR	51.1 ^{2/}	49.2 ***	49.6 ^{2/}	47.8 ***	1.8
	22:35-22:40 HOUR	54.1 ^{2/}	49.2 ***	55.4 ^{2/}	47.8 ***	7.6
	22:40-22:45 HOUR	51.0 ^{2/}	49.2 ***	49.3 ^{2/}	47.8 ***	1.5
	22:45-22:50 HOUR	50.0 ^{2/}	46.6 ***	50.3 ^{2/}	45.4 ***	4.9
	22:50-22:55 HOUR	50.9 ^{2/}	46.6 ***	51.9 ^{2/}	45.4 ***	6.5
	22:55-23:00 HOUR	49.5 ^{2/}	46.6 ***	49.4 ^{2/}	45.4 ***	4.0
	23:00-23:05 HOUR	49.3 ^{2/}	47.8 ***	47.0 ^{2/}	46.7 ***	<0.8 ^{3/}
	23:05-23:10 HOUR	52.5 ^{2/}	47.8 ***	53.7 ^{2/}	46.7 ***	7.0
	23:10-23:15 HOUR	50.4 ^{2/}	47.8 ***	49.9 ^{2/}	46.7 ***	3.2
	23:15-23:20 HOUR	50.2 ^{2/}	49.9 ***	41.4 ^{2/}	48.4 ***	<0.8 ^{3/}



DATE	TIME*	RESULT (dB(A))				
		บ้านทัพทัน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 12, 2025 T25AB234-0006	NIGHT TIME ^{2/}					
	23:20-23:25 HOUR	52.4 ^{2/}	49.9 ***	51.8 ^{2/}	48.4 ***	3.4
	23:25-23:30 HOUR	54.6 ^{2/}	49.9 ***	55.8 ^{2/}	48.4 ***	7.4
	23:30-23:35 HOUR	51.0 ^{2/}	52.7 ***	<0.8 ^{3/}	51.3 ***	<0.8 ^{3/}
	23:35-23:40 HOUR	54.5 ^{2/}	52.7 ***	52.8 ^{2/}	51.3 ***	1.5
	23:40-23:45 HOUR	55.6 ^{2/}	52.7 ***	55.5 ^{2/}	51.3 ***	4.2
	23:45-23:50 HOUR	56.0 ^{2/}	52.1 ***	56.7 ^{2/}	50.8 ***	5.9
	23:50-23:55 HOUR	52.1 ^{2/}	52.1 ***	<0.8 ^{3/}	50.8 ***	<0.8 ^{3/}
	23:55-00:00 HOUR	52.3 ^{2/}	52.1 ***	41.8 ^{2/}	50.8 ***	<0.8 ^{3/}
JANUARY 13, 2025 T25AB234-0006	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	55.3 ^{2/}	51.8 ***	55.7 ^{2/}	50.4 ***	5.3
	00:05-00:10 HOUR	55.0 ^{2/}	51.8 ***	55.2 ^{2/}	50.4 ***	4.8
	00:10-00:15 HOUR	57.0 ^{2/}	51.8 ***	58.4 ^{2/}	50.4 ***	8.0
	00:15-00:20 HOUR	51.0 ^{2/}	49.6 ***	48.4 ^{2/}	48.0 ***	<0.8 ^{3/}
	00:20-00:25 HOUR	51.8 ^{2/}	49.6 ***	50.8 ^{2/}	48.0 ***	2.8
	00:25-00:30 HOUR	52.4 ^{2/}	49.6 ***	52.2 ^{2/}	48.0 ***	4.2
	00:30-00:35 HOUR	51.4 ^{2/}	51.2 ***	40.9 ^{2/}	49.7 ***	<0.8 ^{3/}
	00:35-00:40 HOUR	54.7 ^{2/}	51.2 ***	55.1 ^{2/}	49.7 ***	5.4
	00:40-00:45 HOUR	55.1 ^{2/}	51.2 ***	55.8 ^{2/}	49.7 ***	6.1
	00:45-00:50 HOUR	50.9 ^{2/}	50.3 ***	45.0 ^{2/}	49.2 ***	<0.8 ^{3/}
	00:50-00:55 HOUR	53.1 ^{2/}	50.3 ***	52.9 ^{2/}	49.2 ***	3.7
	00:55-01:00 HOUR	52.0 ^{2/}	50.3 ***	50.1 ^{2/}	49.2 ***	0.9
	01:00-01:05 HOUR	52.1 ^{2/}	51.8 ***	43.3 ^{2/}	50.4 ***	<0.8 ^{3/}
	01:05-01:10 HOUR	56.4 ^{2/}	51.8 ***	57.6 ^{2/}	50.4 ***	7.2
	01:10-01:15 HOUR	57.2 ^{2/}	51.8 ***	58.7 ^{2/}	50.4 ***	8.3
	01:15-01:20 HOUR	53.0 ^{2/}	49.1 ***	53.7 ^{2/}	47.5 ***	6.2
	01:20-01:25 HOUR	48.7 ^{2/}	49.1 ***	<0.8 ^{3/}	47.5 ***	<0.8 ^{3/}
	01:25-01:30 HOUR	51.7 ^{2/}	49.1 ***	51.2 ^{2/}	47.5 ***	3.7
	01:30-01:35 HOUR	52.6 ^{2/}	50.4 ***	51.6 ^{2/}	49.0 ***	2.6
	01:35-01:40 HOUR	55.5 ^{2/}	50.4 ***	56.9 ^{2/}	49.0 ***	7.9
	01:40-01:45 HOUR	50.3 ^{2/}	50.4 ***	<0.8 ^{3/}	49.0 ***	<0.8 ^{3/}
	01:45-01:50 HOUR	52.9 ^{2/}	51.4 ***	50.6 ^{2/}	49.9 ***	<0.8 ^{3/}
	01:50-01:55 HOUR	53.3 ^{2/}	51.4 ***	51.8 ^{2/}	49.9 ***	1.9
	01:55-02:00 HOUR	55.2 ^{2/}	51.4 ***	55.9 ^{2/}	49.9 ***	6.0
	02:00-02:05 HOUR	54.0 ^{2/}	49.8 ***	54.9 ^{2/}	48.4 ***	6.5
	02:05-02:10 HOUR	51.3 ^{2/}	49.8 ***	49.0 ^{2/}	48.4 ***	<0.8 ^{3/}
	02:10-02:15 HOUR	51.2 ^{2/}	49.8 ***	48.6 ^{2/}	48.4 ***	<0.8 ^{3/}
	02:15-02:20 HOUR	52.2 ^{2/}	50.5 ***	50.3 ^{2/}	49.2 ***	1.1
	02:20-02:25 HOUR	51.0 ^{2/}	50.5 ***	44.4 ^{2/}	49.2 ***	<0.8 ^{3/}
	02:25-02:30 HOUR	52.5 ^{2/}	50.5 ***	51.2 ^{2/}	49.2 ***	2.0
	02:30-02:35 HOUR	55.4 ^{2/}	51.1 ***	56.4 ^{2/}	49.7 ***	6.7
	02:35-02:40 HOUR	56.2 ^{2/}	51.1 ***	57.6 ^{2/}	49.7 ***	7.9
	02:40-02:45 HOUR	54.2 ^{2/}	51.1 ***	54.3 ^{2/}	49.7 ***	4.6
	02:45-02:50 HOUR	52.7 ^{2/}	50.5 ***	51.7 ^{2/}	48.9 ***	2.8
	02:50-02:55 HOUR	54.5 ^{2/}	50.5 ***	55.3 ^{2/}	48.9 ***	6.4

DATE	TIME*	RESULT (dB(A))				
		บ้านทัพพิน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 13, 2025 T25AB234-0006	NIGHT TIME ^{2/}					
	02:55-03:00 HOUR	55.1 ^{2/}	50.5 ***	56.3 ^{2/}	48.9 ***	7.4
	03:00-03:05 HOUR	52.7 ^{2/}	51.1 ***	50.6 ^{2/}	49.7 ***	0.9
	03:05-03:10 HOUR	52.0 ^{2/}	51.1 ***	47.7 ^{2/}	49.7 ***	<0.8 ^{3/}
	03:10-03:15 HOUR	54.0 ^{2/}	51.1 ***	53.9 ^{2/}	49.7 ***	4.2
	03:15-03:20 HOUR	53.0 ^{2/}	51.6 ***	50.4 ^{2/}	50.2 ***	<0.8 ^{3/}
	03:20-03:25 HOUR	56.3 ^{2/}	51.6 ***	57.5 ^{2/}	50.2 ***	7.3
	03:25-03:30 HOUR	55.8 ^{2/}	51.6 ***	56.7 ^{2/}	50.2 ***	6.5
	03:30-03:35 HOUR	52.8 ^{2/}	52.8 ***	<0.8 ^{3/}	51.4 ***	<0.8 ^{3/}
	03:35-03:40 HOUR	58.1 ^{2/}	52.8 ***	59.6 ^{2/}	51.4 ***	8.2
	03:40-03:45 HOUR	51.8 ^{2/}	52.8 ***	<0.8 ^{3/}	51.4 ***	<0.8 ^{3/}
	03:45-03:50 HOUR	56.7 ^{2/}	53.0 ***	57.3 ^{2/}	51.7 ***	5.6
	03:50-03:55 HOUR	55.1 ^{2/}	53.0 ***	53.9 ^{2/}	51.7 ***	2.2
	03:55-04:00 HOUR	58.0 ^{2/}	53.0 ***	59.3 ^{2/}	51.7 ***	7.6
	04:00-04:05 HOUR	55.1 ^{2/}	51.5 ***	55.6 ^{2/}	50.3 ***	5.3
	04:05-04:10 HOUR	56.6 ^{2/}	51.5 ***	58.0 ^{2/}	50.3 ***	7.7
	04:10-04:15 HOUR	53.5 ^{2/}	51.5 ***	52.2 ^{2/}	50.3 ***	1.9
	04:15-04:20 HOUR	54.9 ^{2/}	51.8 ***	55.0 ^{2/}	50.2 ***	4.8
	04:20-04:25 HOUR	54.4 ^{2/}	51.8 ***	53.9 ^{2/}	50.2 ***	3.7
	04:25-04:30 HOUR	54.5 ^{2/}	51.8 ***	54.2 ^{2/}	50.2 ***	4.0
	04:30-04:35 HOUR	51.2 ^{2/}	53.4 ***	<0.8 ^{3/}	51.9 ***	<0.8 ^{3/}
	04:35-04:40 HOUR	56.6 ^{2/}	53.4 ***	56.8 ^{2/}	51.9 ***	4.9
	04:40-04:45 HOUR	57.8 ^{2/}	53.4 ***	58.8 ^{2/}	51.9 ***	6.9
	04:45-04:50 HOUR	51.2 ^{2/}	53.7 ***	<0.8 ^{3/}	52.3 ***	<0.8 ^{3/}
	04:50-04:55 HOUR	57.1 ^{2/}	53.7 ***	57.4 ^{2/}	52.3 ***	5.1
	04:55-05:00 HOUR	55.0 ^{2/}	53.7 ***	52.1 ^{2/}	52.3 ***	<0.8 ^{3/}
	05:00-05:05 HOUR	57.5 ^{2/}	53.6 ***	58.2 ^{2/}	52.1 ***	6.1
	05:05-05:10 HOUR	54.5 ^{2/}	53.6 ***	50.2 ^{2/}	52.1 ***	<0.8 ^{3/}
	05:10-05:15 HOUR	56.4 ^{2/}	53.6 ***	56.2 ^{2/}	52.1 ***	4.1
	05:15-05:20 HOUR	52.0 ^{2/}	48.6 ***	52.3 ^{2/}	47.3 ***	5.0
	05:20-05:25 HOUR	52.9 ^{2/}	48.6 ***	53.9 ^{2/}	47.3 ***	6.6
	05:25-05:30 HOUR	52.1 ^{2/}	48.6 ***	52.5 ^{2/}	47.3 ***	5.2
	05:30-05:35 HOUR	51.7 ^{2/}	49.9 ***	50.0 ^{2/}	48.5 ***	1.5
	05:35-05:40 HOUR	51.9 ^{2/}	49.9 ***	50.6 ^{2/}	48.5 ***	2.1
	05:40-05:45 HOUR	52.0 ^{2/}	49.9 ***	50.8 ^{2/}	48.5 ***	2.3
	05:45-05:50 HOUR	52.5 ^{2/}	51.4 ***	49.0 ^{2/}	50.0 ***	<0.8 ^{3/}
	05:50-05:55 HOUR	55.9 ^{2/}	51.4 ***	57.0 ^{2/}	50.0 ***	7.0
	05:55-06:00 HOUR	51.9 ^{2/}	51.4 ***	45.3 ^{2/}	50.0 ***	<0.8 ^{3/}
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	53.1 ^{1/}	50.2 **	50.0 ^{1/}	48.5 **	1.5
JANUARY 13, 2025 T25AB234-0007	DAY TIME ^{1/}					
	07:00-08:00 HOUR	54.9 ^{1/}	51.8 **	52.0 ^{1/}	50.2 **	1.8
	08:00-09:00 HOUR	54.7 ^{1/}	52.1 **	51.2 ^{1/}	50.8 **	<0.8 ^{3/}
	09:00-10:00 HOUR	54.4 ^{1/}	52.0 **	50.7 ^{1/}	50.3 **	<0.8 ^{3/}
	10:00-11:00 HOUR	54.2 ^{1/}	51.4 **	51.0 ^{1/}	49.9 **	1.1
	11:00-12:00 HOUR	54.0 ^{1/}	50.8 **	51.2 ^{1/}	49.5 **	1.7

DATE	TIME*	RESULT (dB(A))				
		บ้านทัพพิน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 13, 2025	DAY TIME ^{1/}					
T25AB234-0007	12:00-13:00 HOUR	53.5 ^{1/}	51.2 **	49.6 ^{1/}	49.8 **	<0.8 ^{3/}
	13:00-14:00 HOUR	53.7 ^{1/}	50.2 **	51.1 ^{1/}	48.7 **	2.4
	14:00-15:00 HOUR	53.0 ^{1/}	49.8 **	50.2 ^{1/}	48.2 **	2.0
	15:00-16:00 HOUR	58.6 ^{1/}	54.6 **	56.4 ^{1/}	53.1 **	3.3
	16:00-17:00 HOUR	60.7 ^{1/}	56.2 **	58.8 ^{1/}	54.7 **	4.1
	17:00-18:00 HOUR	58.8 ^{1/}	55.6 **	56.0 ^{1/}	54.1 **	1.9
	18:00-19:00 HOUR	57.2 ^{1/}	54.3 **	54.1 ^{1/}	52.8 **	1.3
	19:00-20:00 HOUR	57.8 ^{1/}	54.5 **	55.1 ^{1/}	53.0 **	2.1
	20:00-21:00 HOUR	56.1 ^{1/}	53.2 **	53.0 ^{1/}	51.7 **	1.3
	21:00-22:00 HOUR	55.7 ^{1/}	52.7 **	52.7 ^{1/}	51.2 **	1.5
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	55.5 ^{2/}	51.0 ***	56.6 ^{2/}	49.5 ***	7.1
	22:05-22:10 HOUR	51.2 ^{2/}	51.0 ***	40.7 ^{2/}	49.5 ***	<0.8 ^{3/}
	22:10-22:15 HOUR	54.1 ^{2/}	51.0 ***	54.2 ^{2/}	49.5 ***	4.7
	22:15-22:20 HOUR	52.7 ^{2/}	51.6 ***	49.2 ^{2/}	50.4 ***	<0.8 ^{3/}
	22:20-22:25 HOUR	55.0 ^{2/}	51.6 ***	55.3 ^{2/}	50.4 ***	4.9
	22:25-22:30 HOUR	56.7 ^{2/}	51.6 ***	58.1 ^{2/}	50.4 ***	7.7
	22:30-22:35 HOUR	51.9 ^{2/}	51.6 ***	43.1 ^{2/}	50.3 ***	<0.8 ^{3/}
	22:35-22:40 HOUR	54.7 ^{2/}	51.6 ***	54.8 ^{2/}	50.3 ***	4.5
	22:40-22:45 HOUR	53.1 ^{2/}	51.6 ***	50.8 ^{2/}	50.3 ***	<0.8 ^{3/}
	22:45-22:50 HOUR	56.7 ^{2/}	52.7 ***	57.5 ^{2/}	51.1 ***	6.4
	22:50-22:55 HOUR	56.2 ^{2/}	52.7 ***	56.6 ^{2/}	51.1 ***	5.5
	22:55-23:00 HOUR	52.7 ^{2/}	52.7 ***	<0.8 ^{3/}	51.1 ***	<0.8 ^{3/}
	23:00-23:05 HOUR	54.3 ^{2/}	49.9 ***	55.3 ^{2/}	48.5 ***	6.8
	23:05-23:10 HOUR	51.0 ^{2/}	49.9 ***	47.5 ^{2/}	48.5 ***	<0.8 ^{3/}
	23:10-23:15 HOUR	51.8 ^{2/}	49.9 ***	50.3 ^{2/}	48.5 ***	1.8
	23:15-23:20 HOUR	53.1 ^{2/}	51.6 ***	50.8 ^{2/}	50.1 ***	<0.8 ^{3/}
	23:20-23:25 HOUR	53.2 ^{2/}	51.6 ***	51.1 ^{2/}	50.1 ***	1.0
	23:25-23:30 HOUR	54.6 ^{2/}	51.6 ***	54.6 ^{2/}	50.1 ***	4.5
	23:30-23:35 HOUR	53.8 ^{2/}	51.0 ***	53.6 ^{2/}	49.5 ***	4.1
	23:35-23:40 HOUR	55.6 ^{2/}	51.0 ***	56.8 ^{2/}	49.5 ***	7.3
	23:40-23:45 HOUR	53.1 ^{2/}	51.0 ***	51.9 ^{2/}	49.5 ***	2.4
	23:45-23:50 HOUR	50.7 ^{2/}	50.5 ***	40.2 ^{2/}	49.2 ***	<0.8 ^{3/}
	23:50-23:55 HOUR	53.3 ^{2/}	50.5 ***	53.1 ^{2/}	49.2 ***	3.9
	23:55-00:00 HOUR	52.7 ^{2/}	50.5 ***	51.7 ^{2/}	49.2 ***	2.5
JANUARY 14, 2025	NIGHT TIME ^{2/}					
T25AB234-0007	00:00-00:05 HOUR	54.5 ^{2/}	50.8 ***	55.1 ^{2/}	49.2 ***	5.9
	00:05-00:10 HOUR	54.3 ^{2/}	50.8 ***	54.7 ^{2/}	49.2 ***	5.5
	00:10-00:15 HOUR	55.4 ^{2/}	50.8 ***	56.6 ^{2/}	49.2 ***	7.4
	00:15-00:20 HOUR	52.6 ^{2/}	49.0 ***	53.1 ^{2/}	47.6 ***	5.5
	00:20-00:25 HOUR	50.5 ^{2/}	49.0 ***	48.2 ^{2/}	47.6 ***	<0.8 ^{3/}
	00:25-00:30 HOUR	52.3 ^{2/}	49.0 ***	52.6 ^{2/}	47.6 ***	5.0
	00:30-00:35 HOUR	53.1 ^{2/}	51.1 ***	51.8 ^{2/}	49.6 ***	2.2
	00:35-00:40 HOUR	55.8 ^{2/}	51.1 ***	57.0 ^{2/}	49.6 ***	7.4
	00:40-00:45 HOUR	51.0 ^{2/}	51.1 ***	<0.8 ^{3/}	49.6 ***	<0.8 ^{3/}

DATE	TIME*	RESULT (dB(A))				
		บ้านทัพพิน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 14, 2025	NIGHT TIME ^{2/}					
T25AB234-0007	00:45-00:50 HOUR	55.7 ^{2/}	52.2 ***	56.1 ^{2/}	50.8 ***	5.3
	00:50-00:55 HOUR	55.0 ^{2/}	52.2 ***	54.8 ^{2/}	50.8 ***	4.0
	00:55-01:00 HOUR	55.7 ^{2/}	52.2 ***	56.1 ^{2/}	50.8 ***	5.3
	01:00-01:05 HOUR	52.7 ^{2/}	50.2 ***	52.1 ^{2/}	48.8 ***	3.3
	01:05-01:10 HOUR	50.5 ^{2/}	50.2 ***	41.7 ^{2/}	48.8 ***	<0.8 ^{3/}
	01:10-01:15 HOUR	54.4 ^{2/}	50.2 ***	55.3 ^{2/}	48.8 ***	6.5
	01:15-01:20 HOUR	52.9 ^{2/}	50.6 ***	52.0 ^{2/}	49.1 ***	2.9
	01:20-01:25 HOUR	51.8 ^{2/}	50.6 ***	48.6 ^{2/}	49.1 ***	<0.8 ^{3/}
	01:25-01:30 HOUR	52.1 ^{2/}	50.6 ***	49.8 ^{2/}	49.1 ***	<0.8 ^{3/}
	01:30-01:35 HOUR	54.3 ^{2/}	49.5 ***	55.6 ^{2/}	47.9 ***	7.7
	01:35-01:40 HOUR	54.1 ^{2/}	49.5 ***	55.3 ^{2/}	47.9 ***	7.4
	01:40-01:45 HOUR	50.1 ^{2/}	49.5 ***	44.2 ^{2/}	47.9 ***	<0.8 ^{3/}
	01:45-01:50 HOUR	51.3 ^{2/}	51.9 ***	<0.8 ^{3/}	50.2 ***	<0.8 ^{3/}
	01:50-01:55 HOUR	55.6 ^{2/}	51.9 ***	56.2 ^{2/}	50.2 ***	6.0
	01:55-02:00 HOUR	54.5 ^{2/}	51.9 ***	54.0 ^{2/}	50.2 ***	3.8
	02:00-02:05 HOUR	52.9 ^{2/}	48.6 ***	53.8 ^{2/}	47.1 ***	6.7
	02:05-02:10 HOUR	52.4 ^{2/}	48.6 ***	53.0 ^{2/}	47.1 ***	5.9
	02:10-02:15 HOUR	50.6 ^{2/}	48.6 ***	49.3 ^{2/}	47.1 ***	2.2
	02:15-02:20 HOUR	50.1 ^{2/}	49.0 ***	46.6 ^{2/}	47.8 ***	<0.8 ^{3/}
	02:20-02:25 HOUR	51.7 ^{2/}	49.0 ***	51.4 ^{2/}	47.8 ***	3.6
	02:25-02:30 HOUR	53.4 ^{2/}	49.0 ***	54.4 ^{2/}	47.8 ***	6.6
	02:30-02:35 HOUR	51.5 ^{2/}	48.5 ***	51.5 ^{2/}	47.2 ***	4.3
	02:35-02:40 HOUR	50.0 ^{2/}	48.5 ***	47.7 ^{2/}	47.2 ***	<0.8 ^{3/}
	02:40-02:45 HOUR	50.8 ^{2/}	48.5 ***	49.9 ^{2/}	47.2 ***	2.7
	02:45-02:50 HOUR	52.7 ^{2/}	50.1 ***	52.2 ^{2/}	49.0 ***	3.2
	02:50-02:55 HOUR	50.8 ^{2/}	50.1 ***	45.5 ^{2/}	49.0 ***	<0.8 ^{3/}
	02:55-03:00 HOUR	55.0 ^{2/}	50.1 ***	56.3 ^{2/}	49.0 ***	7.3
	03:00-03:05 HOUR	49.8 ^{2/}	49.8 ***	<0.8 ^{3/}	48.6 ***	<0.8 ^{3/}
	03:05-03:10 HOUR	53.9 ^{2/}	49.8 ***	54.8 ^{2/}	48.6 ***	6.2
	03:10-03:15 HOUR	50.6 ^{2/}	49.8 ***	45.9 ^{2/}	48.6 ***	<0.8 ^{3/}
	03:15-03:20 HOUR	50.2 ^{2/}	46.8 ***	50.5 ^{2/}	45.6 ***	4.9
	03:20-03:25 HOUR	49.7 ^{2/}	46.8 ***	49.6 ^{2/}	45.6 ***	4.0
	03:25-03:30 HOUR	50.0 ^{2/}	46.8 ***	50.2 ^{2/}	45.6 ***	4.6
	03:30-03:35 HOUR	50.6 ^{2/}	48.9 ***	48.7 ^{2/}	47.5 ***	1.2
	03:35-03:40 HOUR	50.1 ^{2/}	48.9 ***	46.9 ^{2/}	47.5 ***	<0.8 ^{3/}
	03:40-03:45 HOUR	52.7 ^{2/}	48.9 ***	53.4 ^{2/}	47.5 ***	5.9
	03:45-03:50 HOUR	53.0 ^{2/}	49.0 ***	53.8 ^{2/}	47.4 ***	6.4
	03:50-03:55 HOUR	54.2 ^{2/}	49.0 ***	55.6 ^{2/}	47.4 ***	8.2
	03:55-04:00 HOUR	51.0 ^{2/}	49.0 ***	49.7 ^{2/}	47.4 ***	2.3
	04:00-04:05 HOUR	49.4 ^{2/}	48.9 ***	42.8 ^{2/}	47.6 ***	<0.8 ^{3/}
	04:05-04:10 HOUR	52.0 ^{2/}	48.9 ***	52.1 ^{2/}	47.6 ***	4.5
	04:10-04:15 HOUR	53.4 ^{2/}	48.9 ***	54.5 ^{2/}	47.6 ***	6.9
	04:15-04:20 HOUR	50.0 ^{2/}	49.1 ***	45.7 ^{2/}	47.9 ***	<0.8 ^{3/}
	04:20-04:25 HOUR	54.3 ^{2/}	49.1 ***	55.7 ^{2/}	47.9 ***	7.8

DATE	TIME*	RESULT (dB(A))				
		บ้านทัพพิน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 14, 2025 T25AB234-0007	NIGHT TIME ^{2/}					
	04:25-04:30 HOUR	54.5 ^{2/}	49.1 ***	56.0 ^{2/}	47.9 ***	8.1
	04:30-04:35 HOUR	51.5 ^{2/}	48.8 ***	51.2 ^{2/}	47.6 ***	3.6
	04:35-04:40 HOUR	50.5 ^{2/}	48.8 ***	48.6 ^{2/}	47.6 ***	1.0
	04:40-04:45 HOUR	51.0 ^{2/}	48.8 ***	50.0 ^{2/}	47.6 ***	2.4
	04:45-04:50 HOUR	52.7 ^{2/}	50.1 ***	52.2 ^{2/}	48.8 ***	3.4
	04:50-04:55 HOUR	51.7 ^{2/}	50.1 ***	49.6 ^{2/}	48.8 ***	0.8
	04:55-05:00 HOUR	53.7 ^{2/}	50.1 ***	54.2 ^{2/}	48.8 ***	5.4
	05:00-05:05 HOUR	54.5 ^{2/}	49.1 ***	56.0 ^{2/}	47.8 ***	8.2
	05:05-05:10 HOUR	48.9 ^{2/}	49.1 ***	<0.8 ^{3/}	47.8 ***	<0.8 ^{3/}
	05:10-05:15 HOUR	51.5 ^{2/}	49.1 ***	50.8 ^{2/}	47.8 ***	3.0
	05:15-05:20 HOUR	50.3 ^{2/}	49.7 ***	44.4 ^{2/}	48.4 ***	<0.8 ^{3/}
	05:20-05:25 HOUR	52.2 ^{2/}	49.7 ***	51.6 ^{2/}	48.4 ***	3.2
	05:25-05:30 HOUR	54.8 ^{2/}	49.7 ***	56.2 ^{2/}	48.4 ***	7.8
	05:30-05:35 HOUR	52.0 ^{2/}	49.8 ***	51.0 ^{2/}	48.4 ***	2.6
	05:35-05:40 HOUR	54.2 ^{2/}	49.8 ***	55.2 ^{2/}	48.4 ***	6.8
	05:40-05:45 HOUR	49.8 ^{2/}	49.8 ***	<0.8 ^{3/}	48.4 ***	<0.8 ^{3/}
	05:45-05:50 HOUR	55.1 ^{2/}	49.8 ***	56.6 ^{2/}	48.2 ***	8.4
	05:50-05:55 HOUR	53.3 ^{2/}	49.8 ***	53.7 ^{2/}	48.2 ***	5.5
	05:55-06:00 HOUR	53.5 ^{2/}	49.8 ***	54.1 ^{2/}	48.2 ***	5.9
JANUARY 14, 2025 T25AB234-0008	DAY TIME ^{1/}					
	06:00-07:00 HOUR	52.1 ^{1/}	48.8 **	49.4 ^{1/}	47.4 **	2.0
	DAY TIME ^{1/}					
	07:00-08:00 HOUR	60.3 ^{1/}	55.9 **	58.3 ^{1/}	54.4 **	3.9
	08:00-09:00 HOUR	61.1 ^{1/}	58.2 **	58.0 ^{1/}	56.8 **	1.2
	09:00-10:00 HOUR	58.6 ^{1/}	55.8 **	55.4 ^{1/}	54.4 **	1.0
	10:00-11:00 HOUR	57.4 ^{1/}	54.0 **	54.7 ^{1/}	52.6 **	2.1
	11:00-12:00 HOUR	56.0 ^{1/}	53.1 **	52.9 ^{1/}	51.7 **	1.2
	12:00-13:00 HOUR	55.3 ^{1/}	51.5 **	53.0 ^{1/}	50.3 **	2.7
	13:00-14:00 HOUR	55.7 ^{1/}	52.3 **	53.0 ^{1/}	51.1 **	1.9
	14:00-15:00 HOUR	55.7 ^{1/}	52.2 **	53.1 ^{1/}	50.9 **	2.2
	15:00-16:00 HOUR	54.6 ^{1/}	51.4 **	51.8 ^{1/}	50.0 **	1.8
	16:00-17:00 HOUR	54.5 ^{1/}	51.1 **	51.8 ^{1/}	49.7 **	2.1
	17:00-18:00 HOUR	54.4 ^{1/}	50.8 **	51.9 ^{1/}	49.6 **	2.3
	18:00-19:00 HOUR	54.7 ^{1/}	52.0 **	51.4 ^{1/}	50.5 **	0.9
	19:00-20:00 HOUR	54.4 ^{1/}	50.9 **	51.8 ^{1/}	49.6 **	2.2
	20:00-21:00 HOUR	54.3 ^{1/}	51.0 **	51.6 ^{1/}	49.9 **	1.7
	21:00-22:00 HOUR	54.2 ^{1/}	51.7 **	50.6 ^{1/}	50.1 **	<0.8 ^{3/}
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	50.8 ^{2/}	48.9 ***	49.3 ^{2/}	47.5 ***	1.8
	22:05-22:10 HOUR	52.4 ^{2/}	48.9 ***	52.8 ^{2/}	47.5 ***	5.3
	22:10-22:15 HOUR	53.0 ^{2/}	48.9 ***	53.9 ^{2/}	47.5 ***	6.4
	22:15-22:20 HOUR	52.7 ^{2/}	49.5 ***	52.9 ^{2/}	48.1 ***	4.8
	22:20-22:25 HOUR	51.2 ^{2/}	49.5 ***	49.3 ^{2/}	48.1 ***	1.2
	22:25-22:30 HOUR	50.5 ^{2/}	49.5 ***	46.6 ^{2/}	48.1 ***	<0.8 ^{3/}
	22:30-22:35 HOUR	50.6 ^{2/}	48.5 ***	49.4 ^{2/}	46.9 ***	2.5

DATE	TIME*	RESULT (dB(A))				
		บ้านทัพพิน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 14, 2025 T25AB234-0008	NIGHT TIME ^{2/}					
	22:35-22:40 HOUR	53.2 ^{2/}	48.5 ***	54.4 ^{2/}	46.9 ***	7.5
	22:40-22:45 HOUR	48.6 ^{2/}	48.5 ***	35.2 ^{2/}	46.9 ***	<0.8 ^{3/}
	22:45-22:50 HOUR	49.6 ^{2/}	47.8 ***	47.9 ^{2/}	46.4 ***	1.5
	22:50-22:55 HOUR	52.5 ^{2/}	47.8 ***	53.7 ^{2/}	46.4 ***	7.3
	22:55-23:00 HOUR	52.0 ^{2/}	47.8 ***	52.9 ^{2/}	46.4 ***	6.5
	23:00-23:05 HOUR	53.9 ^{2/}	49.3 ***	55.0 ^{2/}	47.9 ***	7.1
	23:05-23:10 HOUR	51.9 ^{2/}	49.3 ***	51.4 ^{2/}	47.9 ***	3.5
	23:10-23:15 HOUR	50.5 ^{2/}	49.3 ***	47.3 ^{2/}	47.9 ***	<0.8 ^{3/}
	23:15-23:20 HOUR	52.6 ^{2/}	49.6 ***	52.6 ^{2/}	48.3 ***	4.3
	23:20-23:25 HOUR	51.4 ^{2/}	49.6 ***	49.7 ^{2/}	48.3 ***	1.4
	23:25-23:30 HOUR	51.0 ^{2/}	49.6 ***	48.2 ^{2/}	48.3 ***	<0.8 ^{3/}
	23:30-23:35 HOUR	52.5 ^{2/}	51.9 ***	46.6 ^{2/}	50.4 ***	<0.8 ^{3/}
	23:35-23:40 HOUR	54.7 ^{2/}	51.9 ***	54.5 ^{2/}	50.4 ***	4.1
	23:40-23:45 HOUR	54.5 ^{2/}	51.9 ***	54.0 ^{2/}	50.4 ***	3.6
	23:45-23:50 HOUR	55.0 ^{2/}	54.7 ***	45.4 ^{2/}	53.3 ***	<0.8 ^{3/}
	23:50-23:55 HOUR	57.0 ^{2/}	54.7 ***	56.1 ^{2/}	53.3 ***	2.8
	23:55-00:00 HOUR	55.4 ^{2/}	54.7 ***	50.1 ^{2/}	53.3 ***	<0.8 ^{3/}
JANUARY 15, 2025 T25AB234-0008	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	62.5 ^{2/}	58.8 ***	63.1 ^{2/}	57.4 ***	5.7
	00:05-00:10 HOUR	61.9 ^{2/}	58.8 ***	62.0 ^{2/}	57.4 ***	4.6
	00:10-00:15 HOUR	61.5 ^{2/}	58.8 ***	61.2 ^{2/}	57.4 ***	3.8
	00:15-00:20 HOUR	58.0 ^{2/}	57.7 ***	49.2 ^{2/}	56.1 ***	<0.8 ^{3/}
	00:20-00:25 HOUR	60.9 ^{2/}	57.7 ***	61.0 ^{2/}	56.1 ***	4.9
	00:25-00:30 HOUR	58.3 ^{2/}	57.7 ***	52.4 ^{2/}	56.1 ***	<0.8 ^{3/}
	00:30-00:35 HOUR	58.8 ^{2/}	54.8 ***	59.6 ^{2/}	53.5 ***	6.1
	00:35-00:40 HOUR	59.2 ^{2/}	54.8 ***	60.2 ^{2/}	53.5 ***	6.7
	00:40-00:45 HOUR	55.9 ^{2/}	54.8 ***	52.4 ^{2/}	53.5 ***	<0.8 ^{3/}
	00:45-00:50 HOUR	61.1 ^{2/}	56.6 ***	62.2 ^{2/}	55.4 ***	6.8
	00:50-00:55 HOUR	60.1 ^{2/}	56.6 ***	60.5 ^{2/}	55.4 ***	5.1
	00:55-01:00 HOUR	60.6 ^{2/}	56.6 ***	61.4 ^{2/}	55.4 ***	6.0
	01:00-01:05 HOUR	59.9 ^{2/}	55.1 ***	61.2 ^{2/}	53.4 ***	7.8
	01:05-01:10 HOUR	56.4 ^{2/}	55.1 ***	53.5 ^{2/}	53.4 ***	<0.8 ^{3/}
	01:10-01:15 HOUR	57.0 ^{2/}	55.1 ***	55.5 ^{2/}	53.4 ***	2.1
	01:15-01:20 HOUR	55.6 ^{2/}	53.5 ***	54.4 ^{2/}	52.3 ***	2.1
	01:20-01:25 HOUR	58.2 ^{2/}	53.5 ***	59.4 ^{2/}	52.3 ***	7.1
	01:25-01:30 HOUR	54.1 ^{2/}	53.5 ***	48.2 ^{2/}	52.3 ***	<0.8 ^{3/}
	01:30-01:35 HOUR	59.4 ^{2/}	55.5 ***	60.1 ^{2/}	54.4 ***	5.7
	01:35-01:40 HOUR	57.3 ^{2/}	55.5 ***	55.6 ^{2/}	54.4 ***	1.2
	01:40-01:45 HOUR	60.4 ^{2/}	55.5 ***	61.7 ^{2/}	54.4 ***	7.3
	01:45-01:50 HOUR	59.7 ^{2/}	54.4 ***	61.2 ^{2/}	53.2 ***	8.0
	01:50-01:55 HOUR	55.1 ^{2/}	54.4 ***	49.8 ^{2/}	53.2 ***	<0.8 ^{3/}
	01:55-02:00 HOUR	56.2 ^{2/}	54.4 ***	54.5 ^{2/}	53.2 ***	1.3
	02:00-02:05 HOUR	57.2 ^{2/}	53.3 ***	57.9 ^{2/}	52.2 ***	5.7
	02:05-02:10 HOUR	54.6 ^{2/}	53.3 ***	51.7 ^{2/}	52.2 ***	<0.8 ^{3/}

DATE	TIME*	RESULT (dB(A))				
		บ้านเทพนิมิต				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 15, 2025 T25AB234-0008	NIGHT TIME ^{2/}					
	02:10-02:15 HOUR	55.2 ^{2/}	53.3 ***	53.7 ^{2/}	52.2 ***	1.5
	02:15-02:20 HOUR	56.4 ^{2/}	52.4 ***	57.2 ^{2/}	51.2 ***	6.0
	02:20-02:25 HOUR	55.8 ^{2/}	52.4 ***	56.1 ^{2/}	51.2 ***	4.9
	02:25-02:30 HOUR	54.4 ^{2/}	52.4 ***	53.1 ^{2/}	51.2 ***	1.9
	02:30-02:35 HOUR	57.0 ^{2/}	55.1 ***	55.5 ^{2/}	53.8 ***	1.7
	02:35-02:40 HOUR	57.1 ^{2/}	55.1 ***	55.8 ^{2/}	53.8 ***	2.0
	02:40-02:45 HOUR	59.8 ^{2/}	55.1 ***	61.0 ^{2/}	53.8 ***	7.2
	02:45-02:50 HOUR	53.8 ^{2/}	53.3 ***	47.2 ^{2/}	51.9 ***	<0.8 ^{3/}
	02:50-02:55 HOUR	54.2 ^{2/}	53.3 ***	49.9 ^{2/}	51.9 ***	<0.8 ^{3/}
	02:55-03:00 HOUR	58.0 ^{2/}	53.3 ***	59.2 ^{2/}	51.9 ***	7.3
	03:00-03:05 HOUR	53.5 ^{2/}	52.5 ***	49.6 ^{2/}	51.0 ***	<0.8 ^{3/}
	03:05-03:10 HOUR	54.8 ^{2/}	52.5 ***	53.9 ^{2/}	51.0 ***	2.9
	03:10-03:15 HOUR	55.6 ^{2/}	52.5 ***	55.7 ^{2/}	51.0 ***	4.7
	03:15-03:20 HOUR	54.4 ^{2/}	53.9 ***	47.8 ^{2/}	52.7 ***	<0.8 ^{3/}
	03:20-03:25 HOUR	57.5 ^{2/}	53.9 ***	58.0 ^{2/}	52.7 ***	5.3
	03:25-03:30 HOUR	57.1 ^{2/}	53.9 ***	57.3 ^{2/}	52.7 ***	4.6
	03:30-03:35 HOUR	53.2 ^{2/}	52.3 ***	48.9 ^{2/}	50.9 ***	<0.8 ^{3/}
	03:35-03:40 HOUR	57.3 ^{2/}	52.3 ***	58.6 ^{2/}	50.9 ***	7.7
	03:40-03:45 HOUR	56.7 ^{2/}	52.3 ***	57.7 ^{2/}	50.9 ***	6.8
	03:45-03:50 HOUR	53.8 ^{2/}	51.8 ***	52.5 ^{2/}	50.6 ***	1.9
	03:50-03:55 HOUR	53.2 ^{2/}	51.8 ***	50.6 ^{2/}	50.6 ***	<0.8 ^{3/}
	03:55-04:00 HOUR	55.6 ^{2/}	51.8 ***	56.3 ^{2/}	50.6 ***	5.7
	04:00-04:05 HOUR	55.3 ^{2/}	51.9 ***	55.6 ^{2/}	50.3 ***	5.3
	04:05-04:10 HOUR	52.5 ^{2/}	51.9 ***	46.6 ^{2/}	50.3 ***	<0.8 ^{3/}
	04:10-04:15 HOUR	53.2 ^{2/}	51.9 ***	50.3 ^{2/}	50.3 ***	<0.8 ^{3/}
	04:15-04:20 HOUR	54.6 ^{2/}	52.4 ***	53.6 ^{2/}	50.8 ***	2.8
	04:20-04:25 HOUR	53.7 ^{2/}	52.4 ***	50.8 ^{2/}	50.8 ***	<0.8 ^{3/}
	04:25-04:30 HOUR	53.0 ^{2/}	52.4 ***	47.1 ^{2/}	50.8 ***	<0.8 ^{3/}
	04:30-04:35 HOUR	54.0 ^{2/}	50.4 ***	54.5 ^{2/}	48.7 ***	5.8
	04:35-04:40 HOUR	55.1 ^{2/}	50.4 ***	56.3 ^{2/}	48.7 ***	7.6
	04:40-04:45 HOUR	51.6 ^{2/}	50.4 ***	48.4 ^{2/}	48.7 ***	<0.8 ^{3/}
	04:45-04:50 HOUR	53.8 ^{2/}	49.7 ***	54.7 ^{2/}	48.3 ***	6.4
	04:50-04:55 HOUR	51.5 ^{2/}	49.7 ***	49.8 ^{2/}	48.3 ***	1.5
	04:55-05:00 HOUR	53.4 ^{2/}	49.7 ***	54.0 ^{2/}	48.3 ***	5.7
	05:00-05:05 HOUR	55.6 ^{2/}	53.5 ***	54.4 ^{2/}	51.9 ***	2.5
	05:05-05:10 HOUR	53.1 ^{2/}	53.5 ***	<0.8 ^{3/}	51.9 ***	<0.8 ^{3/}
	05:10-05:15 HOUR	57.8 ^{2/}	53.5 ***	58.8 ^{2/}	51.9 ***	6.9
	05:15-05:20 HOUR	55.1 ^{2/}	53.2 ***	53.6 ^{2/}	51.7 ***	1.9
	05:20-05:25 HOUR	57.3 ^{2/}	53.2 ***	58.2 ^{2/}	51.7 ***	6.5
	05:25-05:30 HOUR	52.1 ^{2/}	53.2 ***	<0.8 ^{3/}	51.7 ***	<0.8 ^{3/}
	05:30-05:35 HOUR	54.8 ^{2/}	51.9 ***	54.7 ^{2/}	50.5 ***	4.2
	05:35-05:40 HOUR	51.4 ^{2/}	51.9 ***	<0.8 ^{3/}	50.5 ***	<0.8 ^{3/}
	05:40-05:45 HOUR	55.0 ^{2/}	51.9 ***	55.1 ^{2/}	50.5 ***	4.6
	05:45-05:50 HOUR	56.8 ^{2/}	52.5 ***	57.8 ^{2/}	51.0 ***	6.8

DATE	TIME*	RESULT (dB(A))				
		บ้านทัพพิน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 15, 2025 T25AB234-0008	NIGHT TIME ^{2/}					
	05:50-05:55 HOUR	54.0 ^{2/}	52.5 ***	51.7 ^{2/}	51.0 ***	<0.8 ^{3/}
	05:55-06:00 HOUR	56.6 ^{2/}	52.5 ***	57.5 ^{2/}	51.0 ***	6.5
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	54.4 ^{1/}	50.8 **	51.9 ^{1/}	49.4 **	2.5
JANUARY 15, 2025 T25AB234-0009	DAY TIME ^{1/}					
	07:00-08:00 HOUR	56.0 ^{1/}	52.2 **	53.7 ^{1/}	50.9 **	2.8
	08:00-09:00 HOUR	56.1 ^{1/}	52.3 **	53.8 ^{1/}	50.9 **	2.9
	09:00-10:00 HOUR	54.9 ^{1/}	51.9 **	51.9 ^{1/}	50.7 **	1.2
	10:00-11:00 HOUR	55.7 ^{1/}	52.0 **	53.3 ^{1/}	50.6 **	2.7
	11:00-12:00 HOUR	54.6 ^{1/}	51.3 **	51.9 ^{1/}	49.9 **	2.0
	12:00-13:00 HOUR	55.2 ^{1/}	52.2 **	52.2 ^{1/}	50.8 **	1.4
	13:00-14:00 HOUR	55.2 ^{1/}	51.7 **	52.6 ^{1/}	50.4 **	2.2
	14:00-15:00 HOUR	54.2 ^{1/}	51.1 **	51.3 ^{1/}	49.7 **	1.6
	15:00-16:00 HOUR	54.8 ^{1/}	50.6 **	52.7 ^{1/}	49.2 **	3.5
	16:00-17:00 HOUR	55.3 ^{1/}	52.2 **	52.4 ^{1/}	50.9 **	1.5
	17:00-18:00 HOUR	55.9 ^{1/}	52.4 **	53.3 ^{1/}	51.0 **	2.3
	18:00-19:00 HOUR	55.5 ^{1/}	51.6 **	53.2 ^{1/}	50.1 **	3.1
	19:00-20:00 HOUR	55.9 ^{1/}	51.2 **	54.1 ^{1/}	50.0 **	4.1
	20:00-21:00 HOUR	56.8 ^{1/}	52.4 **	54.8 ^{1/}	51.1 **	3.7
	21:00-22:00 HOUR	56.6 ^{1/}	52.8 **	54.3 ^{1/}	51.4 **	2.9
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	54.7 ^{2/}	50.9 ***	55.4 ^{2/}	49.3 ***	6.1
	22:05-22:10 HOUR	54.2 ^{2/}	50.9 ***	54.5 ^{2/}	49.3 ***	5.2
	22:10-22:15 HOUR	53.5 ^{2/}	50.9 ***	53.0 ^{2/}	49.3 ***	3.7
	22:15-22:20 HOUR	51.8 ^{2/}	50.9 ***	47.5 ^{2/}	49.6 ***	<0.8 ^{3/}
	22:20-22:25 HOUR	54.6 ^{2/}	50.9 ***	55.2 ^{2/}	49.6 ***	5.6
	22:25-22:30 HOUR	55.6 ^{2/}	50.9 ***	56.8 ^{2/}	49.6 ***	7.2
	22:30-22:35 HOUR	53.2 ^{2/}	50.0 ***	53.4 ^{2/}	48.6 ***	4.8
	22:35-22:40 HOUR	55.0 ^{2/}	50.0 ***	56.3 ^{2/}	48.6 ***	7.7
	22:40-22:45 HOUR	51.4 ^{2/}	50.0 ***	48.8 ^{2/}	48.6 ***	<0.8 ^{3/}
	22:45-22:50 HOUR	52.3 ^{2/}	52.1 ***	41.8 ^{2/}	50.6 ***	<0.8 ^{3/}
	22:50-22:55 HOUR	54.1 ^{2/}	52.1 ***	52.8 ^{2/}	50.6 ***	2.2
	22:55-23:00 HOUR	53.5 ^{2/}	52.1 ***	50.7 ^{2/}	50.6 ***	<0.8 ^{3/}
	23:00-23:05 HOUR	51.1 ^{2/}	50.7 ***	43.5 ^{2/}	49.2 ***	<0.8 ^{3/}
	23:05-23:10 HOUR	52.6 ^{2/}	50.7 ***	51.1 ^{2/}	49.2 ***	1.9
	23:10-23:15 HOUR	51.3 ^{2/}	50.7 ***	45.4 ^{2/}	49.2 ***	<0.8 ^{3/}
	23:15-23:20 HOUR	54.7 ^{2/}	49.5 ***	56.1 ^{2/}	48.0 ***	8.1
	23:20-23:25 HOUR	54.6 ^{2/}	49.5 ***	56.0 ^{2/}	48.0 ***	8.0
	23:25-23:30 HOUR	50.8 ^{2/}	49.5 ***	47.9 ^{2/}	48.0 ***	<0.8 ^{3/}
	23:30-23:35 HOUR	53.1 ^{2/}	52.0 ***	49.6 ^{2/}	50.5 ***	<0.8 ^{3/}
	23:35-23:40 HOUR	52.1 ^{2/}	52.0 ***	38.7 ^{2/}	50.5 ***	<0.8 ^{3/}
	23:40-23:45 HOUR	53.8 ^{2/}	52.0 ***	52.1 ^{2/}	50.5 ***	1.6
	23:45-23:50 HOUR	53.4 ^{2/}	50.7 ***	53.1 ^{2/}	49.3 ***	3.8
	23:50-23:55 HOUR	54.2 ^{2/}	50.7 ***	54.6 ^{2/}	49.3 ***	5.3
	23:55-00:00 HOUR	52.1 ^{2/}	50.7 ***	49.5 ^{2/}	49.3 ***	<0.8 ^{3/}

DATE	TIME*	RESULT (dB(A))				
		มาตรฐาน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 16, 2025 T25AB234-0009	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	51.0 ^{2/}	50.4 ***	45.1 ^{2/}	48.9 ***	<0.8 ^{3/}
	00:05-00:10 HOUR	54.4 ^{2/}	50.4 ***	55.2 ^{2/}	48.9 ***	6.3
	00:10-00:15 HOUR	54.1 ^{2/}	50.4 ***	54.7 ^{2/}	48.9 ***	5.8
	00:15-00:20 HOUR	54.0 ^{2/}	51.2 ***	53.8 ^{2/}	49.6 ***	4.2
	00:20-00:25 HOUR	52.9 ^{2/}	51.2 ***	51.0 ^{2/}	49.6 ***	1.4
	00:25-00:30 HOUR	54.9 ^{2/}	51.2 ***	55.5 ^{2/}	49.6 ***	5.9
	00:30-00:35 HOUR	51.4 ^{2/}	49.3 ***	50.2 ^{2/}	48.0 ***	2.2
	00:35-00:40 HOUR	49.2 ^{2/}	49.3 ***	<0.8 ^{3/}	48.0 ***	<0.8 ^{3/}
	00:40-00:45 HOUR	52.1 ^{2/}	49.3 ***	51.9 ^{2/}	48.0 ***	3.9
	00:45-00:50 HOUR	57.5 ^{2/}	52.7 ***	58.8 ^{2/}	51.1 ***	7.7
	00:50-00:55 HOUR	56.3 ^{2/}	52.7 ***	56.8 ^{2/}	51.1 ***	5.7
	00:55-01:00 HOUR	54.4 ^{2/}	52.7 ***	52.5 ^{2/}	51.1 ***	1.4
	01:00-01:05 HOUR	54.2 ^{2/}	49.9 ***	55.2 ^{2/}	48.5 ***	6.7
	01:05-01:10 HOUR	50.3 ^{2/}	49.9 ***	42.7 ^{2/}	48.5 ***	<0.8 ^{3/}
	01:10-01:15 HOUR	52.3 ^{2/}	49.9 ***	51.6 ^{2/}	48.5 ***	3.1
	01:15-01:20 HOUR	51.2 ^{2/}	50.8 ***	43.6 ^{2/}	49.6 ***	<0.8 ^{3/}
	01:20-01:25 HOUR	54.8 ^{2/}	50.8 ***	55.6 ^{2/}	49.6 ***	6.0
	01:25-01:30 HOUR	54.1 ^{2/}	50.8 ***	54.4 ^{2/}	49.6 ***	4.8
	01:30-01:35 HOUR	50.3 ^{2/}	51.6 ***	<0.8 ^{3/}	50.3 ***	<0.8 ^{3/}
	01:35-01:40 HOUR	53.9 ^{2/}	51.6 ***	53.0 ^{2/}	50.3 ***	2.7
	01:40-01:45 HOUR	52.5 ^{2/}	51.6 ***	48.2 ^{2/}	50.3 ***	<0.8 ^{3/}
	01:45-01:50 HOUR	56.9 ^{2/}	52.2 ***	58.1 ^{2/}	50.8 ***	7.3
	01:50-01:55 HOUR	54.2 ^{2/}	52.2 ***	52.9 ^{2/}	50.8 ***	2.1
	01:55-02:00 HOUR	55.8 ^{2/}	52.2 ***	56.3 ^{2/}	50.8 ***	5.5
	02:00-02:05 HOUR	53.5 ^{2/}	52.0 ***	51.2 ^{2/}	50.4 ***	0.8
	02:05-02:10 HOUR	54.1 ^{2/}	52.0 ***	52.9 ^{2/}	50.4 ***	2.5
	02:10-02:15 HOUR	54.9 ^{2/}	52.0 ***	54.8 ^{2/}	50.4 ***	4.4
	02:15-02:20 HOUR	53.7 ^{2/}	49.9 ***	54.4 ^{2/}	48.3 ***	6.1
	02:20-02:25 HOUR	51.1 ^{2/}	49.9 ***	47.9 ^{2/}	48.3 ***	<0.8 ^{3/}
	02:25-02:30 HOUR	54.6 ^{2/}	49.9 ***	55.8 ^{2/}	48.3 ***	7.5
	02:30-02:35 HOUR	51.5 ^{2/}	51.2 ***	42.7 ^{2/}	49.6 ***	<0.8 ^{3/}
	02:35-02:40 HOUR	51.9 ^{2/}	51.2 ***	46.6 ^{2/}	49.6 ***	<0.8 ^{3/}
	02:40-02:45 HOUR	55.6 ^{2/}	51.2 ***	56.6 ^{2/}	49.6 ***	7.0
	02:45-02:50 HOUR	52.3 ^{2/}	47.1 ***	53.7 ^{2/}	45.9 ***	7.8
	02:50-02:55 HOUR	52.2 ^{2/}	47.1 ***	53.6 ^{2/}	45.9 ***	7.7
	02:55-03:00 HOUR	51.6 ^{2/}	47.1 ***	52.7 ^{2/}	45.9 ***	6.8
	03:00-03:05 HOUR	49.1 ^{2/}	49.7 ***	<0.8 ^{3/}	48.5 ***	<0.8 ^{3/}
	03:05-03:10 HOUR	50.5 ^{2/}	49.7 ***	45.8 ^{2/}	48.5 ***	<0.8 ^{3/}
	03:10-03:15 HOUR	54.5 ^{2/}	49.7 ***	55.8 ^{2/}	48.5 ***	7.3
	03:15-03:20 HOUR	50.3 ^{2/}	50.5 ***	<0.8 ^{3/}	48.7 ***	<0.8 ^{3/}
	03:20-03:25 HOUR	52.5 ^{2/}	50.5 ***	51.2 ^{2/}	48.7 ***	2.5
	03:25-03:30 HOUR	50.4 ^{2/}	50.5 ***	<0.8 ^{3/}	48.7 ***	<0.8 ^{3/}
	03:30-03:35 HOUR	52.4 ^{2/}	51.5 ***	48.1 ^{2/}	50.2 ***	<0.8 ^{3/}
	03:35-03:40 HOUR	53.7 ^{2/}	51.5 ***	52.7 ^{2/}	50.2 ***	2.5

DATE	TIME*	RESULT (dB(A))				
		บ้านทัพหน้า				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 16, 2025 T25AB234-0009	NIGHT TIME ^{2/}					
	03:40-03:45 HOUR	54.2 ^{2/}	51.5 ***	53.9 ^{2/}	50.2 ***	3.7
	03:45-03:50 HOUR	51.1 ^{2/}	49.9 ***	47.9 ^{2/}	48.7 ***	<0.8 ^{3/}
	03:50-03:55 HOUR	54.6 ^{2/}	49.9 ***	55.8 ^{2/}	48.7 ***	7.1
	03:55-04:00 HOUR	49.8 ^{2/}	49.9 ***	<0.8 ^{3/}	48.7 ***	<0.8 ^{3/}
	04:00-04:05 HOUR	52.9 ^{2/}	50.7 ***	51.9 ^{2/}	49.2 ***	2.7
	04:05-04:10 HOUR	50.5 ^{2/}	50.7 ***	<0.8 ^{3/}	49.2 ***	<0.8 ^{3/}
	04:10-04:15 HOUR	55.1 ^{2/}	50.7 ***	56.1 ^{2/}	49.2 ***	6.9
	04:15-04:20 HOUR	54.3 ^{2/}	50.8 ***	54.7 ^{2/}	49.4 ***	5.3
	04:20-04:25 HOUR	53.6 ^{2/}	50.8 ***	53.4 ^{2/}	49.4 ***	4.0
	04:25-04:30 HOUR	50.5 ^{2/}	50.8 ***	<0.8 ^{3/}	49.4 ***	<0.8 ^{3/}
	04:30-04:35 HOUR	54.8 ^{2/}	51.6 ***	55.0 ^{2/}	50.2 ***	4.8
	04:35-04:40 HOUR	57.1 ^{2/}	51.6 ***	58.7 ^{2/}	50.2 ***	8.5
	04:40-04:45 HOUR	55.8 ^{2/}	51.6 ***	56.7 ^{2/}	50.2 ***	6.5
	04:45-04:50 HOUR	52.8 ^{2/}	49.9 ***	52.7 ^{2/}	48.6 ***	4.1
	04:50-04:55 HOUR	55.1 ^{2/}	49.9 ***	56.5 ^{2/}	48.6 ***	7.9
	04:55-05:00 HOUR	53.5 ^{2/}	49.9 ***	54.0 ^{2/}	48.6 ***	5.4
	05:00-05:05 HOUR	53.0 ^{2/}	50.2 ***	52.8 ^{2/}	48.6 ***	4.2
	05:05-05:10 HOUR	53.8 ^{2/}	50.2 ***	54.3 ^{2/}	48.6 ***	5.7
	05:10-05:15 HOUR	50.4 ^{2/}	50.2 ***	39.9 ^{2/}	48.6 ***	<0.8 ^{3/}
	05:15-05:20 HOUR	53.8 ^{2/}	51.0 ***	53.6 ^{2/}	49.7 ***	3.9
	05:20-05:25 HOUR	53.3 ^{2/}	51.0 ***	52.4 ^{2/}	49.7 ***	2.7
	05:25-05:30 HOUR	53.5 ^{2/}	51.0 ***	52.9 ^{2/}	49.7 ***	3.2
	05:30-05:35 HOUR	55.4 ^{2/}	51.3 ***	56.3 ^{2/}	50.0 ***	6.3
	05:35-05:40 HOUR	56.2 ^{2/}	51.3 ***	57.5 ^{2/}	50.0 ***	7.5
	05:40-05:45 HOUR	54.0 ^{2/}	51.3 ***	53.7 ^{2/}	50.0 ***	3.7
	05:45-05:50 HOUR	53.5 ^{2/}	49.0 ***	54.6 ^{2/}	47.8 ***	6.8
	05:50-05:55 HOUR	54.3 ^{2/}	49.0 ***	55.8 ^{2/}	47.8 ***	8.0
	05:55-06:00 HOUR	54.5 ^{2/}	49.0 ***	56.1 ^{2/}	47.8 ***	8.3
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	54.6 ^{1/}	50.9 **	52.2 ^{1/}	49.6 **	2.6
JANUARY 16, 2025 T25AB234-0010	DAY TIME ^{1/}					
	07:00-08:00 HOUR	57.1 ^{1/}	51.8 **	55.6 ^{1/}	50.5 **	5.1
	08:00-09:00 HOUR	61.4 ^{1/}	58.2 **	58.6 ^{1/}	56.8 **	1.8
	09:00-10:00 HOUR	58.2 ^{1/}	54.7 **	55.6 ^{1/}	53.4 **	2.2
	10:00-11:00 HOUR	57.0 ^{1/}	53.7 **	54.3 ^{1/}	52.5 **	1.8
	11:00-12:00 HOUR	56.1 ^{1/}	53.1 **	53.1 ^{1/}	51.8 **	1.3
	12:00-13:00 HOUR	55.9 ^{1/}	53.5 **	52.2 ^{1/}	51.9 **	<0.8 ^{3/}
	13:00-14:00 HOUR	55.5 ^{1/}	52.7 **	52.3 ^{1/}	51.4 **	0.9
	14:00-15:00 HOUR	55.4 ^{1/}	51.9 **	52.8 ^{1/}	50.5 **	2.3
	15:00-16:00 HOUR	54.7 ^{1/}	51.6 **	51.8 ^{1/}	50.4 **	1.4
	16:00-17:00 HOUR	54.3 ^{1/}	51.1 **	51.5 ^{1/}	49.7 **	1.8
	17:00-18:00 HOUR	54.0 ^{1/}	50.9 **	51.1 ^{1/}	49.4 **	1.7
	18:00-19:00 HOUR	54.3 ^{1/}	51.1 **	51.5 ^{1/}	50.0 **	1.5
	19:00-20:00 HOUR	54.2 ^{1/}	51.1 **	51.3 ^{1/}	49.8 **	1.5
	20:00-21:00 HOUR	53.8 ^{1/}	51.0 **	50.6 ^{1/}	49.4 **	1.2

DATE	TIME*	RESULT (dB(A))				
		บ้านเทพนิมิต				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 16, 2025 T25AB234-0010	DAY TIME ^{1/}					
	21:00-22:00 HOUR	53.8 ^{1/}	50.2 **	51.3 ^{1/}	49.1 **	2.2
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	53.3 ^{2/}	48.4 ***	54.6 ^{2/}	46.7 ***	7.9
	22:05-22:10 HOUR	50.9 ^{2/}	48.4 ***	50.3 ^{2/}	46.7 ***	3.6
	22:10-22:15 HOUR	52.6 ^{2/}	48.4 ***	53.5 ^{2/}	46.7 ***	6.8
	22:15-22:20 HOUR	50.8 ^{2/}	47.6 ***	51.0 ^{2/}	46.2 ***	4.8
	22:20-22:25 HOUR	51.0 ^{2/}	47.6 ***	51.3 ^{2/}	46.2 ***	5.1
	22:25-22:30 HOUR	49.8 ^{2/}	47.6 ***	48.8 ^{2/}	46.2 ***	2.6
	22:30-22:35 HOUR	50.7 ^{2/}	49.4 ***	47.8 ^{2/}	48.1 ***	<0.8 ^{3/}
	22:35-22:40 HOUR	52.1 ^{2/}	49.4 ***	51.8 ^{2/}	48.1 ***	3.7
	22:40-22:45 HOUR	53.6 ^{2/}	49.4 ***	54.5 ^{2/}	48.1 ***	6.4
	22:45-22:50 HOUR	52.1 ^{2/}	51.0 ***	48.6 ^{2/}	49.5 ***	<0.8 ^{3/}
	22:50-22:55 HOUR	51.2 ^{2/}	51.0 ***	40.7 ^{2/}	49.5 ***	<0.8 ^{3/}
	22:55-23:00 HOUR	54.6 ^{2/}	51.0 ***	55.1 ^{2/}	49.5 ***	5.6
	23:00-23:05 HOUR	52.4 ^{2/}	47.9 ***	53.5 ^{2/}	46.4 ***	7.1
	23:05-23:10 HOUR	49.3 ^{2/}	47.9 ***	46.7 ^{2/}	46.4 ***	<0.8 ^{3/}
	23:10-23:15 HOUR	51.5 ^{2/}	47.9 ***	52.0 ^{2/}	46.4 ***	5.6
	23:15-23:20 HOUR	51.8 ^{2/}	50.8 ***	47.9 ^{2/}	49.3 ***	<0.8 ^{3/}
	23:20-23:25 HOUR	52.2 ^{2/}	50.8 ***	49.6 ^{2/}	49.3 ***	<0.8 ^{3/}
	23:25-23:30 HOUR	51.7 ^{2/}	50.8 ***	47.4 ^{2/}	49.3 ***	<0.8 ^{3/}
	23:30-23:35 HOUR	54.3 ^{2/}	49.2 ***	55.7 ^{2/}	47.9 ***	7.8
	23:35-23:40 HOUR	53.2 ^{2/}	49.2 ***	54.0 ^{2/}	47.9 ***	6.1
	23:40-23:45 HOUR	50.6 ^{2/}	49.2 ***	48.0 ^{2/}	47.9 ***	<0.8 ^{3/}
	23:45-23:50 HOUR	49.0 ^{2/}	49.3 ***	<0.8 ^{3/}	47.9 ***	<0.8 ^{3/}
	23:50-23:55 HOUR	54.6 ^{2/}	49.3 ***	56.1 ^{2/}	47.9 ***	8.2
	23:55-00:00 HOUR	53.3 ^{2/}	49.3 ***	54.1 ^{2/}	47.9 ***	6.2
JANUARY 17, 2025 T25AB234-0010	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	52.2 ^{2/}	48.7 ***	52.6 ^{2/}	47.5 ***	5.1
	00:05-00:10 HOUR	48.8 ^{2/}	48.7 ***	35.4 ^{2/}	47.5 ***	<0.8 ^{3/}
	00:10-00:15 HOUR	53.7 ^{2/}	48.7 ***	55.0 ^{2/}	47.5 ***	7.5
	00:15-00:20 HOUR	49.1 ^{2/}	51.7 ***	<0.8 ^{3/}	50.4 ***	<0.8 ^{3/}
	00:20-00:25 HOUR	53.1 ^{2/}	51.7 ***	50.5 ^{2/}	50.4 ***	<0.8 ^{3/}
	00:25-00:30 HOUR	55.1 ^{2/}	51.7 ***	55.4 ^{2/}	50.4 ***	5.0
	00:30-00:35 HOUR	51.6 ^{2/}	49.2 ***	50.9 ^{2/}	47.8 ***	3.1
	00:35-00:40 HOUR	53.3 ^{2/}	49.2 ***	54.2 ^{2/}	47.8 ***	6.4
	00:40-00:45 HOUR	51.5 ^{2/}	49.2 ***	50.6 ^{2/}	47.8 ***	2.8
	00:45-00:50 HOUR	49.5 ^{2/}	48.7 ***	44.8 ^{2/}	47.3 ***	<0.8 ^{3/}
	00:50-00:55 HOUR	50.5 ^{2/}	48.7 ***	48.8 ^{2/}	47.3 ***	1.5
	00:55-01:00 HOUR	50.6 ^{2/}	48.7 ***	49.1 ^{2/}	47.3 ***	1.8
	01:00-01:05 HOUR	53.6 ^{2/}	49.9 ***	54.2 ^{2/}	48.5 ***	5.7
	01:05-01:10 HOUR	53.4 ^{2/}	49.9 ***	53.8 ^{2/}	48.5 ***	5.3
	01:10-01:15 HOUR	50.6 ^{2/}	49.9 ***	45.3 ^{2/}	48.5 ***	<0.8 ^{3/}
	01:15-01:20 HOUR	52.0 ^{2/}	48.7 ***	52.3 ^{2/}	47.3 ***	5.0
	01:20-01:25 HOUR	51.0 ^{2/}	48.7 ***	50.1 ^{2/}	47.3 ***	2.8
	01:25-01:30 HOUR	53.8 ^{2/}	48.7 ***	55.2 ^{2/}	47.3 ***	7.9

DATE	TIME*	RESULT (dB(A))				
		บ้านทัพทัน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 17, 2025	NIGHT TIME ^{2/}					
T25AB234-0010	01:30-01:35 HOUR	53.2 ^{2/}	48.6 ***	54.4 ^{2/}	47.1 ***	7.3
	01:35-01:40 HOUR	50.4 ^{2/}	48.6 ***	48.7 ^{2/}	47.1 ***	1.6
	01:40-01:45 HOUR	51.4 ^{2/}	48.6 ***	51.2 ^{2/}	47.1 ***	4.1
	01:45-01:50 HOUR	51.4 ^{2/}	50.9 ***	44.8 ^{2/}	49.4 ***	<0.8 ^{3/}
	01:50-01:55 HOUR	50.0 ^{2/}	50.9 ***	<0.8 ^{3/}	49.4 ***	<0.8 ^{3/}
	01:55-02:00 HOUR	53.4 ^{2/}	50.9 ***	52.8 ^{2/}	49.4 ***	3.4
	02:00-02:05 HOUR	51.8 ^{2/}	48.6 ***	52.0 ^{2/}	47.3 ***	4.7
	02:05-02:10 HOUR	50.3 ^{2/}	48.6 ***	48.4 ^{2/}	47.3 ***	1.1
	02:10-02:15 HOUR	49.2 ^{2/}	48.6 ***	43.3 ^{2/}	47.3 ***	<0.8 ^{3/}
	02:15-02:20 HOUR	50.0 ^{2/}	48.5 ***	47.7 ^{2/}	47.1 ***	<0.8 ^{3/}
	02:20-02:25 HOUR	53.6 ^{2/}	48.5 ***	55.0 ^{2/}	47.1 ***	7.9
	02:25-02:30 HOUR	50.2 ^{2/}	48.5 ***	48.3 ^{2/}	47.1 ***	1.2
	02:30-02:35 HOUR	53.3 ^{2/}	48.4 ***	54.6 ^{2/}	47.0 ***	7.6
	02:35-02:40 HOUR	51.4 ^{2/}	48.4 ***	51.4 ^{2/}	47.0 ***	4.4
	02:40-02:45 HOUR	51.1 ^{2/}	48.4 ***	50.8 ^{2/}	47.0 ***	3.8
	02:45-02:50 HOUR	52.2 ^{2/}	49.7 ***	51.6 ^{2/}	48.4 ***	3.2
	02:50-02:55 HOUR	51.4 ^{2/}	49.7 ***	49.5 ^{2/}	48.4 ***	1.1
	02:55-03:00 HOUR	51.7 ^{2/}	49.7 ***	50.4 ^{2/}	48.4 ***	2.0
	03:00-03:05 HOUR	52.3 ^{2/}	51.1 ***	49.1 ^{2/}	49.5 ***	<0.8 ^{3/}
	03:05-03:10 HOUR	55.0 ^{2/}	51.1 ***	55.7 ^{2/}	49.5 ***	6.2
	03:10-03:15 HOUR	51.0 ^{2/}	51.1 ***	<0.8 ^{3/}	49.5 ***	<0.8 ^{3/}
	03:15-03:20 HOUR	50.7 ^{2/}	49.1 ***	48.6 ^{2/}	47.9 ***	<0.8 ^{3/}
	03:20-03:25 HOUR	53.2 ^{2/}	49.1 ***	54.1 ^{2/}	47.9 ***	6.2
	03:25-03:30 HOUR	52.3 ^{2/}	49.1 ***	52.5 ^{2/}	47.9 ***	4.6
	03:30-03:35 HOUR	53.9 ^{2/}	49.8 ***	54.8 ^{2/}	48.4 ***	6.4
	03:35-03:40 HOUR	49.2 ^{2/}	49.8 ***	<0.8 ^{3/}	48.4 ***	<0.8 ^{3/}
	03:40-03:45 HOUR	52.5 ^{2/}	49.8 ***	52.2 ^{2/}	48.4 ***	3.8
	03:45-03:50 HOUR	52.5 ^{2/}	47.9 ***	53.7 ^{2/}	46.5 ***	7.2
	03:50-03:55 HOUR	51.4 ^{2/}	47.9 ***	51.8 ^{2/}	46.5 ***	5.3
	03:55-04:00 HOUR	49.6 ^{2/}	47.9 ***	47.7 ^{2/}	46.5 ***	1.2
	04:00-04:05 HOUR	51.2 ^{2/}	50.6 ***	45.3 ^{2/}	49.1 ***	<0.8 ^{3/}
	04:05-04:10 HOUR	51.3 ^{2/}	50.6 ***	46.0 ^{2/}	49.1 ***	<0.8 ^{3/}
	04:10-04:15 HOUR	51.7 ^{2/}	50.6 ***	48.2 ^{2/}	49.1 ***	<0.8 ^{3/}
	04:15-04:20 HOUR	52.6 ^{2/}	50.6 ***	51.1 ^{2/}	49.1 ***	2.0
	04:20-04:25 HOUR	52.7 ^{2/}	50.6 ***	51.5 ^{2/}	49.1 ***	2.4
	04:25-04:30 HOUR	51.1 ^{2/}	50.6 ***	44.5 ^{2/}	49.1 ***	<0.8 ^{3/}
	04:30-04:35 HOUR	52.4 ^{2/}	51.7 ***	47.1 ^{2/}	50.3 ***	<0.8 ^{3/}
	04:35-04:40 HOUR	55.9 ^{2/}	51.7 ***	56.8 ^{2/}	50.3 ***	6.5
	04:40-04:45 HOUR	53.9 ^{2/}	51.7 ***	52.9 ^{2/}	50.3 ***	2.6
	04:45-04:50 HOUR	53.3 ^{2/}	49.2 ***	54.2 ^{2/}	47.8 ***	6.4
	04:50-04:55 HOUR	52.2 ^{2/}	49.2 ***	52.2 ^{2/}	47.8 ***	4.4
	04:55-05:00 HOUR	49.7 ^{2/}	49.2 ***	43.1 ^{2/}	47.8 ***	<0.8 ^{3/}
	05:00-05:05 HOUR	52.5 ^{2/}	50.7 ***	50.8 ^{2/}	49.0 ***	1.8
	05:05-05:10 HOUR	52.9 ^{2/}	50.7 ***	51.8 ^{2/}	49.0 ***	2.8

DATE	TIME*	RESULT (dB(A))				
		บ้านทัพพิน				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
JANUARY 17, 2025 T25AB234-0010	NIGHT TIME ^{2/}					
	05:10-05:15 HOUR	52.3 ^{2/}	50.7 ***	50.2 ^{2/}	49.0 ***	1.2
	05:15-05:20 HOUR	55.1 ^{2/}	50.0 ***	56.5 ^{2/}	48.5 ***	8.0
	05:20-05:25 HOUR	50.4 ^{2/}	50.0 ***	42.8 ^{2/}	48.5 ***	<0.8 ^{3/}
	05:25-05:30 HOUR	51.5 ^{2/}	50.0 ***	49.2 ^{2/}	48.5 ***	<0.8 ^{3/}
	05:30-05:35 HOUR	54.4 ^{2/}	52.9 ***	52.1 ^{2/}	51.5 ***	<0.8 ^{3/}
	05:35-05:40 HOUR	53.4 ^{2/}	52.9 ***	46.8 ^{2/}	51.5 ***	<0.8 ^{3/}
	05:40-05:45 HOUR	57.0 ^{2/}	52.9 ***	57.9 ^{2/}	51.5 ***	6.4
	05:45-05:50 HOUR	56.1 ^{2/}	51.2 ***	57.4 ^{2/}	49.7 ***	7.7
	05:50-05:55 HOUR	52.9 ^{2/}	51.2 ***	51.0 ^{2/}	49.7 ***	1.3
	05:55-06:00 HOUR	52.9 ^{2/}	51.2 ***	51.0 ^{2/}	49.7 ***	1.3
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	53.7 ^{1/}	50.4 **	51.0 ^{1/}	48.8 **	2.2

- REMARK :**
- 1/ CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC SOUND LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR, MEASURING AS L_{Aeq} 1 hour.
 - 2/ CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR) : SPECIFIC SOUND LEVEL OCCUR IN RESTFUL AREA OR NIGHT TIME, MEASURING AS L_{Aeq} 5 minutes.
 - 3/ THERE IS NO IMPACT CAUSE ANNOYANCE SOUND LEVEL
- ** PERCENTILE LEVEL 90 (L_{A90}) IS THE MIDDLE VALUE OF 11 TIMES MEASURING.
(55 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
- *** PERCENTILE LEVEL 90 (L_{A90}) IS THE MIDDLE VALUE OF 3 TIMES MEASURING.
(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
- **** ISO 1996-1 : 2016
- **** THE NATIONAL ENVIRONMENT COMMITTEE ANNOUNCEMENT NO. 29 (B.E. 2550) REGARDING NOISE LEVEL STANDARDS, DATED JUNE 29, B.E. 2550 (2007)
- **** THE ANNOUNCEMENT FROM THE POLLUTION CONTROL COMMITTEE TITLED "METHODS FOR MEASURING BASELINE NOISE LEVELS, NOISE LEVELS DURING NON-INTERFERENCE, MEASUREMENT AND CALCULATION OF NOISE LEVELS DURING INTERFERENCE, CALCULATION OF NOISE INTERFERENCE LEVELS, AND NOISE MEASUREMENT RECORD FORMS, DATED SEPTEMBER 21, B.E. 2565 (2022).
- **** THE MINISTRY OF INDUSTRY ANNOUNCEMENT (B.E. 2548) REGARDING "DETERMINATION OF NOISE LEVELS FOR INDUSTRIAL OPERATIONS AND NOISE LEVELS GENERATED BY FACTORY ACTIVITIES," DATED DECEMBER 27, B.E. 2548 (2005).
- **** THE DEPARTMENT OF INDUSTRIAL WORKS ANNOUNCEMENT REGARDING "METHODS FOR MEASURING NOISE LEVELS 24-HOUR AVERAGE NOISE LEVELS, AND MAXIMUM NOISE LEVELS GENERATED BY INDUSTRIAL OPERATIONS, " DATED DECEMBER 20, B.E. 2553 (2010).

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

ภาคผนวก ค7
รายงานผลการตรวจสอบคุณภาพน้ำทิ้ง

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: APRIL 4, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: APRIL 4-21, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JUNE 13, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U051453
SAMPLE TYPE	: EFFLUENT	WORK NO.	: 2024-012255
SAMPLING DATE	: APRIL 3, 2025	ANALYSIS NO.	: T25AH470-0001
SAMPLING TIME	: 11:10 HOUR		
SAMPLING METHOD	: GRAB		
SAMPLING BY	: MR SUKSAN BOONLEANG		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บ่อพักน้ำทิ้งของ โรงไฟฟ้าชีวมวล โครงการ 1 T25AH470-0001				
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.2 (33.5°C)	5.5-9.0	6.5-8.5	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	19.1	≤ 20	≤ 20	-	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	48.3	≤ 120	≤ 100	-	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	< 5.0	≤ 50	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,234	≤ 3,000	≤ 1,300	-	25
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	< 3	≤ 5	≤ 5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			ปล่อยพักน้ำทิ้งของ โรงไฟฟ้าชีวมวล โครงการ 1 T25AH470-0001				
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	< 5.0	≤ 100	≤ 35	1.5	5.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN				

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD 1: ANNOUNCEMENT OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT; STANDARD FOR EFFLUENT THAT DISCHARGE FROM ELECTRIC POWER PLANT, B.E. 2565, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 139, PART 238 D, DATED OCTOBER 6, 2022.

REGULATORY STANDARD 2 : ROYAL IRRIGATION DEPARTMENT ORDER NO. 18/2561 (2018) DATED FEBRUARY 26, B.E.2561 (2018).

[^] : SAMPLING BY CUSTOMER AT 16:20 HOUR ON APRIL 29, 2025, ANALYSIS NO. T25AJ237-0001 (ANALYTICAL DATE : APRIL 30 - MAY 9, 2025).

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 3, 2025
SAMPLING TIME : 11:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SUKSAN BOONLEANG
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : APRIL 4, 2025
ANALYTICAL DATE : APRIL 4-21, 2025
ISSUE DATE : JUNE 13, 2025
REPORT NO. : 2025-U051455
WORK NO. : 2024-012255
ANALYSIS NO. : T25AH470-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			รายงานน้ำก่อน ระบายลงสู่บ่อ คอนเดนเซอร์ของ โรงงานน้ำตาล ไทยรุ่งเรือง คอร์ปอเรชั่น T25AH470-0002				
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.3 (33.2°C)	5.5-9.0	6.5-8.5	-	-
TEMPERATURE ^c	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	33.2	-	≤ 40	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	≤ 20	≤ 20	-	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	41.6	≤ 120	≤ 100	-	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	14.4	≤ 50	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS ^{ab}	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	887	≤ 3,000	≤ 1,300	-	25
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	< 3	≤ 5	≤ 5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			รายงานน้ำก่อน ระบายลงสู่บ่อ คอนเดนเซอร์ของ โรงงานน้ำตาล ไทยรุ่งเรือง คอร์ปอเรชั่น T25AH470-0002				
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	< 5.0	≤ 100	≤ 35	1.5	5.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN				

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD 1 : ANNOUNCEMENT OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT; STANDARD FOR EFFLUENT THAT DISCHARGE FROM ELECTRIC POWER PLANT, B.E. 2565, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 139, PART 238 D, DATED OCTOBER 6, 2022.

REGULATORY STANDARD 2 : ROYAL IRRIGATION DEPARTMENT ORDER NO. 18/2561 (2018) DATED FEBRUARY 26, B.E.2561 (2018).

^A : SAMPLING BY CUSTOMER AT 16:30 HOUR ON APRIL 29, 2025, ANALYSIS NO. T25AJ237-0002 (ANALYTICAL DATE : APRIL 30 - MAY 9, 2025).

Wilailak Srisuk.

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 8, 2025
SAMPLING TIME : 10:44 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SUKSAN BOONLEANG
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MAY 9, 2025
ANALYTICAL DATE : MAY 9-19, 2025
ISSUE DATE : JUNE 13, 2025
REPORT NO. : 2025-U051153
WORK NO. : 2024-012255
ANALYSIS NO. : T25AK016-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บอพักน้ำทิ้งของ โรงไฟฟ้าชีวมวล โครงการ 1 T25AK016-0001				
pH ^{ac}	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.2 (25°C)	5.5-9.0	6.5-8.5	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	9.2	≤ 20	≤ 20	-	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	58.2	≤ 120	≤ 100	-	25.0
TOTAL SUSPENDED SOLIDS ^{ab}	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	< 5.0	≤ 50	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS ^{ab}	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,615	≤ 3,000	≤ 1,300	-	25
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	< 3	≤ 5	≤ 5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บอפקน้ำทิ้งของ โรงไฟฟ้าชีวมวล โครงการ 1 T25AK016-0001				
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	< 5.0	≤ 100	≤ 35	1.5	5.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN				

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD 1 : ANNOUNCEMENT OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT; STANDARD FOR EFFLUENT THAT DISCHARGE FROM ELECTRIC POWER PLANT, B.E. 2565, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 139, PART 238 D, DATED OCTOBER 6, 2022.

REGULATORY STANDARD 2 : ROYAL IRRIGATION DEPARTMENT ORDER NO. 18/2561 (2018) DATED FEBRUARY 26, B.E.2561 (2018).

^A : SAMPLING BY CUSTOMER AT 15:00 HOUR ON MAY 21, 2025, ANALYSIS NO. T25AL070-0001 (ANALYTICAL DATE : MAY 23-28, 2025).

THE REASON FOR ISSUING THE NEW REPORT IS TO SUBSTITUTE RESULT OF pH, TOTAL SUSPENDED SOLIDS AND TOTAL DISSOLVED SOLIDS. SUBSTITUTED REPORT FOR REPORT NO. 2025-U044403, ISSUE DATE MAY 22, 2025.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: MAY 9, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: MAY 9-19, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JUNE 13, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U051155
SAMPLE TYPE	: EFFLUENT	WORK NO.	: 2024-012255
SAMPLING DATE	: MAY 8, 2025	ANALYSIS NO.	: T25AK016-0002
SAMPLING TIME	: 10:58 HOUR		
SAMPLING METHOD	: GRAB		
SAMPLING BY	: MR SUKSAN BOONLEANG		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			รางระบายน้ำก่อน ระบายลงสู่บ่อ คอนกรีตเขตรอง โรงงานน้ำตาล ไทยรุ่งเรือง คอร์เปอร์เรชั่น T25AK016-0002				
pH ^{AC}	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.2 (25°C)	5.5-9.0	6.5-8.5	-	-
TEMPERATURE ^C	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	33.2	-	≤ 40	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	≤ 20	≤ 20	-	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	38.8	≤ 120	≤ 100	-	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	8.5	≤ 50	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS ^{ab}	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	961	≤ 3,000	≤ 1,300	-	25
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	< 3	≤ 5	≤ 5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			รายงานน้ำก่อน ระบายลงสู่บ่อ คอนเดนเซอร์ของ โรงงานน้ำตาล ไทยรุ่งเรือง คอร์ปอเรชั่น T25AK016-0002				
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	< 5.0	≤ 100	≤ 35	1.5	5.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN				

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD 1 : ANNOUNCEMENT OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT; STANDARD FOR EFFLUENT THAT DISCHARGE FROM ELECTRIC POWER PLANT, B.E. 2565, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 139, PART 238 D, DATED OCTOBER 6, 2022.

REGULATORY STANDARD 2 : ROYAL IRRIGATION DEPARTMENT ORDER NO. 18/2561 (2018) DATED FEBRUARY 26, B.E.2561 (2018).

^A : SAMPLING BY CUSTOMER AT 15:15 HOUR ON MAY 21, 2025, ANALYSIS NO. T25AL070-0002 (ANALYTICAL DATE : MAY 23-28, 2025).

THE REASON FOR ISSUING THE NEW REPORT IS TO SUBSTITUTE RESULT OF pH, TOTAL DISSOLVED SOLIDS AND NITRATE.

SUBSTITUTED REPORT FOR REPORT NO. 2025-U044406, ISSUE DATE MAY 22, 2025.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 7, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 7-16, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JULY 9, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U062515
SAMPLE TYPE	: EFFLUENT	WORK NO.	: 2024-012255
SAMPLING DATE	: JUNE 6, 2025	ANALYSIS NO.	: T25AM334-0001
SAMPLING TIME	: 10:44 HOUR		
SAMPLING METHOD	: GRAB		
SAMPLING BY	: MR SUKSAN BOONLEANG		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บอพักน้ำหึ่งของ โรงไฟฟ้าชีวมวล โครงการ 1 T25AM334-0001				
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.3 (37.3°C)	5.5-9.0	6.5-8.5	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	6.1	≤ 20	≤ 20	-	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	48.5	≤ 120	≤ 100	-	25.0
TOTAL SUSPENDED SOLIDS ^{a,b}	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	< 5.0	≤ 50	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS ^{a,b}	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	122	≤ 3,000	≤ 1,300	-	25
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	< 3	≤ 5	≤ 5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บ่อพักน้ำทิ้งของ โรงไฟฟ้าชีวมวล โครงการ 1 T25AM334-0001				
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	ND	≤ 100	≤ 35	1.5	5.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN				

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD 1 : ANNOUNCEMENT OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT; STANDARD FOR EFFLUENT THAT DISCHARGE FROM ELECTRIC POWER PLANT, B.E. 2565, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 139, PART 238 D, DATED OCTOBER 6, 2022.

REGULATORY STANDARD 2 : ROYAL IRRIGATION DEPARTMENT ORDER NO. 18/2561 (2018) DATED FEBRUARY 26, B.E.2561 (2018).

ND : NOT DETECTED.

[^] : SAMPLING BY CUSTOMER AT 11:45 HOUR ON JUNE 18, 2025, ANALYSIS NO. T25AN467-0002 (ANALYTICAL DATE : JUNE 19-25, 2025).

THE REASON FOR ISSUING THE NEW REPORT IS TO SUBSTITUTE RESULT OF TOTAL SUSPENDED SOLIDS AND TOTAL DISSOLVED SOLIDS.
SUBSTITUTED REPORT FOR REPORT NO. 2025-U054848, ISSUE DATE JUNE 18, 2025.

Wilailak Sriskul

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : EFFLUENT **RECEIVED DATE** : JUNE 7, 2025
SAMPLING DATE : JUNE 6, 2025 **ANALYTICAL DATE** : JUNE 7-16, 2025
SAMPLING TIME : 10:44 HOUR **ISSUE DATE** : JUNE 19, 2025
SAMPLING METHOD : GRAB **REPORT NO.** : 2025-U054913
SAMPLING BY : MR SUKSAN BOONLEANG **WORK NO.** : 2024-012255
ANALYZED BY : MISS CHOMTHANAN APHIPATPAPHA **ANALYSIS NO.** : T25AM334-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			ผลพิกษาทั้งหมดของ โรงไฟฟ้าชีวมวล โครงการ 1 T25AM334-0001				
NITRATE	mg/L NO ₃	CADMIUM REDUCTION METHOD (SM: PART 4500 -NO ₃ : E)	ND	≤ 10	-	0.09	0.50
FREE CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	≤ 1	0.1	-
METALS							
IRON	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.190	-	-	0.005	0.100
COPPER	mg/L Cu	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 2.0	≤ 1.0	0.005	0.050
ZINC	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	< LOQ	-	≤ 5.0	0.003	0.050
SAMPLE CONDITION							
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN				

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24TH EDITION, 2023.

REGULATORY STANDARD 1: ANNOUNCEMENT OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT; STANDARD FOR EFFLUENT
THAT DISCHARGE FROM ELECTRIC POWER PLANT, B.E. 2565, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE,
VOL 139, PART 238 D, DATED OCTOBER 6, 2022.

REGULATORY STANDARD 2 : ROYAL IRRIGATION DEPARTMENT ORDER NO. 18/2561 (2018) DATED FEBRUARY 26, B.E.2561 (2018).

ND : NOT DETECTED.

< LOQ : < LIMIT OF QUANTITATION (ZINC ≥ 0.003 AND < 0.050 mg/L).

Benjawan V.

(MISS BENJAWAN VIRIYOTHA)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 7, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 7-17, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JULY 16, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U064776
SAMPLE TYPE	: EFFLUENT	WORK NO.	: 2024-012255
SAMPLING DATE	: JUNE 6, 2025	ANALYSIS NO.	: T25AM334-0002
SAMPLING TIME	: 10:50 HOUR		
SAMPLING METHOD	: GRAB		
SAMPLING BY	: MR SUKSAN BOONLEANG		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			รายงานน้ำก่อน ระบายลงสู่บ่อ คอนเดนเซอร์ของ โรงงานน้ำตาล ไทยรุ่งเรือง คอร์ปอเรชั่น T25AM334-0002				
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.5 (25°C)	5.5-9.0	6.5-8.5	-	-
TEMPERATURE ^c	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	31.7	-	≤ 40	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	≤ 20	≤ 20	-	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	< 25.0	≤ 120	≤ 100	-	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	< 5.0	≤ 50	≤ 30	-	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,149	≤ 3,000	≤ 1,300	-	25
OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	< 3	≤ 5	≤ 5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			รายงานน้ำก่อน ระบายลงสู่บ่อ คอนเดนเซอร์ของ โรงงานน้ำตาล ไทยรุ่งเรือง คอร์ปอเรชั่น T25AM334-0002				
TOTAL KJELDAHL NITROGEN ^c	mg/L	SEMI-MICRO-KJELDAHL METHOD (SM: PART 4500-Norg C)	< 5.0	≤ 100	≤ 35	1.5	5.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN				

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD 1: ANNOUNCEMENT OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT; STANDARD FOR EFFLUENT THAT DISCHARGE FROM ELECTRIC POWER PLANT, B.E. 2565, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 139, PART 238 D, DATED OCTOBER 6, 2022.

REGULATORY STANDARD 2 : ROYAL IRRIGATION DEPARTMENT ORDER NO. 18/2561 (2018) DATED FEBRUARY 26, B.E.2561 (2018).

^A : SAMPLING BY CUSTOMER AT 14:00 HOUR ON JUNE 30, 2025, ANALYSIS NO. T25AO611-0001 (ANALYTICAL DATE : JULY 2-4, 2025).

THE REASON FOR ISSUING THE NEW REPORT IS TO SUBSTITUTE RESULT OF pH.

SUBSTITUTED REPORT FOR REPORT NO. 2025-U054849, ISSUE DATE JUNE 18, 2025.

Wilailak Sriskul

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JUNE 7, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JUNE 7-16, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: JULY 9, 2025
SAMPLING SOURCE	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	REPORT NO.	: 2025-U062516
SAMPLE TYPE	: EFFLUENT	WORK NO.	: 2024-012255
SAMPLING DATE	: JUNE 6, 2025	ANALYSIS NO.	: T25AM334-0002
SAMPLING TIME	: 10:50 HOUR		
SAMPLING METHOD	: GRAB		
SAMPLING BY	: MR SUKSAN BOONLEANG		
ANALYZED BY	: MISS CHOMTHANAN APHIPATPAPHA		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			รางระบายน้ำก่อน ระบายลงสู่บ่อ คอนกรีตเขตรั้วของ โรงงานน้ำตาล ไทยรุ่งเรือง คอร์ปอเรชั่น T25AM334-0002				
NITRATE ^A	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500 -NO ₃ ⁻ E)	0.71	≤ 10	-	0.09	0.50
FREE CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	≤ 1	0.1	-
METALS							
IRON	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	< LOQ	-	-	0.005	0.100
COPPER	mg/L Cu	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 2.0	≤ 1.0	0.005	0.050



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD 1	REGULATORY STANDARD 2	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			รางระบายน้ำก่อน ระบายลงสู่บ่อ คอนเดนเซอร์ของ โรงงานน้ำตาล ไทยรุ่งเรือง คอร์ปอเรชั่น T25AM334-0002				
ZINC	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	< LOQ	-	≤ 5.0	0.003	0.050
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN				

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD 1 : ANNOUNCEMENT OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT; STANDARD FOR EFFLUENT THAT DISCHARGE FROM ELECTRIC POWER PLANT, B.E. 2565, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 139, PART 238 D, DATED OCTOBER 6, 2022.

REGULATORY STANDARD 2 : ROYAL IRRIGATION DEPARTMENT ORDER NO. 18/2561 (2018) DATED FEBRUARY 26, B.E.2561 (2018).

ND : NOT DETECTED.

< LOQ : < LIMIT OF QUANTITATION (IRON ≥ 0.005 AND < 0.100 mg/L, ZINC ≥ 0.003 AND < 0.050 mg/L).

^ : SAMPLING BY CUSTOMER AT 11:35 HOUR ON JUNE 18, 2025, ANALYSIS NO. T25AN467-0001 (ANALYTICAL DATE : JUNE 19-26, 2025).

THE REASON FOR ISSUING THE NEW REPORT IS TO SUBSTITUTE RESULT OF NITRATE.

SUBSTITUTED REPORT FOR REPORT NO. 2025-U054915, ISSUE DATE JUNE 19, 2025.

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

ภาคผนวก ค8
รายงานผลการตรวจสอบคุณภาพน้ำฝน

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : RAIN WATER
SAMPLING DATE : MAY 8, 2025
SAMPLING TIME : 10:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SUKSAN BOONLEANG
ANALYZED BY : MISS SAMITTHA LACHIT

RECEIVED DATE : MAY 9, 2025
ANALYTICAL DATE : MAY 9-16, 2025
ISSUE DATE : MAY 19, 2025
REPORT NO. : 2025-U043446
WORK NO. : 2024-012255
ANALYSIS NO. : T25AK023-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บริเวณพื้นที่โครงการ T25AK023-0001		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	8.4 (33.1°C)	-	-
NITRATE	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	6.91	0.09	0.50
SULPHATE	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: PART 4500-SO ₄ ²⁻ E)	ND	1.0	4.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.
ND : NOT DETECTED.

Siriphorn

(MISS SIRIPHORN MUANRAE)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : RAIN WATER **RECEIVED DATE** : MAY 9, 2025
SAMPLING DATE : MAY 8, 2025 **ANALYTICAL DATE** : MAY 9-16, 2025
SAMPLING TIME : 11:45 HOUR **ISSUE DATE** : MAY 19, 2025
SAMPLING METHOD : GRAB **REPORT NO.** : 2025-U043448
SAMPLING BY : MR SUKSAN BOONLEANG **WORK NO.** : 2024-012255
ANALYZED BY : MISS SAMITTHA LACHIT **ANALYSIS NO.** : T25AK023-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บันทึกผลทาง T25AK023-0002		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.9 (36.8°C)	-	-
NITRATE	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	8.42	0.09	0.50
SULPHATE	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: PART 4500-SO ₄ ²⁻ E)	< 4.0	1.0	4.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

Siriphorn

(MISS SIRIPHORN MUANRAE)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : RAIN WATER
SAMPLING DATE : MAY 8, 2025
SAMPLING TIME : 11:40 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SUKSAN BOONLEANG
ANALYZED BY : MISS SAMITTHA LACHIT

RECEIVED DATE : MAY 9, 2025
ANALYTICAL DATE : MAY 9-16, 2025
ISSUE DATE : MAY 19, 2025
REPORT NO. : 2025-U043449
WORK NO. : 2024-012255
ANALYSIS NO. : T25AK023-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บันทึกพบบน T25AK023-0003		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	8.4 (33.2°C)	-	-
NITRATE	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	6.56	0.09	0.50
SULPHATE	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: PART 4500-SO ₄ ²⁻ E)	ND	1.0	4.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.
ND : NOT DETECTED.

Siriphorn

(MISS SIRIPHAPORN MUANRAE)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : RAIN WATER
SAMPLING DATE : JUNE 6, 2025
SAMPLING TIME : 10:29 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SUKSAN BOONLEANG
ANALYZED BY : MISS SAMITTHA LACHIT

RECEIVED DATE : JUNE 7, 2025
ANALYTICAL DATE : JUNE 7-13, 2025
ISSUE DATE : JUNE 16, 2025
REPORT NO. : 2025-U053747
WORK NO. : 2024-012255
ANALYSIS NO. : T25AM335-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บริเวณพื้นที่โครงการ T25AM335-0001		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.2 (29.7°C)	-	-
NITRATE	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	< 0.50	0.09	0.50
SULPHATE	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: PART 4500-SO ₄ ²⁻ E)	ND	1.0	4.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

ND : NOT DETECTED.

Siriphorn.

(MISS SIRIPHORN MUANRAE)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : RAIN WATER
SAMPLING DATE : JUNE 6, 2025
SAMPLING TIME : 12:05 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SUKSAN BOONLEANG
ANALYZED BY : MISS SAMITTHA LACHIT

RECEIVED DATE : JUNE 7, 2025
ANALYTICAL DATE : JUNE 7-13, 2025
ISSUE DATE : JUNE 16, 2025
REPORT NO. : 2025-U053748
WORK NO. : 2024-012255
ANALYSIS NO. : T25AM335-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บันทึกผลการตรวจ T25AM335-0002		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	8.2 (32.8°C)	-	-
NITRATE	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	8.86	0.09	0.50
SULPHATE	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: PART 4500-SO ₄ ²⁻ E)	< 4.0	1.0	4.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

Siriphorn

(MISS SIRIPHAPORN MUANRAE)
LABORATORY SUPERVISOR



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 • THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
SAMPLE TYPE : RAIN WATER
SAMPLING DATE : JUNE 6, 2025
SAMPLING TIME : 11:55 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SUKSAN BOONLEANG
ANALYZED BY : MISS SAMITTHA LACHIT

RECEIVED DATE : JUNE 7, 2025
ANALYTICAL DATE : JUNE 7-13, 2025
ISSUE DATE : JUNE 16, 2025
REPORT NO. : 2025-U053749
WORK NO. : 2024-012255
ANALYSIS NO. : T25AM335-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			บ้านห้วยพลับ T25AM335-0003		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	8.3 (31.5°C)	-	-
NITRATE	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	8.86	0.09	0.50
SULPHATE	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: PART 4500-SO ₄ ²⁻ E)	< 4.0	1.0	4.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

Siriphorn.

(MISS SIRIPHAPORN MUANRAE)
LABORATORY SUPERVISOR



ภาคผนวก ค9

รายงานผลการติดตามตรวจสอบระดับเสียงในสถานที่ทำงาน (TWA)

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING PLACE : THAI RUNG RUEANG CORPORATION COMPANY
MEASURING TYPE : WORKPLACE (NOISE) **RECEIVED DATE** : JANUARY 15, 2025
MEASURING DATE : JANUARY 15, 2025 **ANALYTICAL DATE** : JANUARY 15, 2025
MEASURING TIME : * **ISSUE DATE** : JANUARY 23, 2025
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER** **REPORT NO.** : 2025-U005436
MEASURED BY : MISS CHAMANDA KIMAKOM **WORK NO.** : 2024-012255
ANALYSIS NO. : T25AB192-0001

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L _{Aeq} 8 hours	L _{Amax} 8 hours
T25AB192-0001	บริเวณพื้นที่โรงไฟฟ้า	08:30-16:30	80.0	89.0

REMARK :

- ** DEPARTMENT OF LABOR PROTECTION AND WELFARE ANNOUNCEMENT REGARDING STANDARDS, METHODS FOR MEASUREMENT AND ANALYSIS OF WORKING CONDITIONS RELATED TO HEAT LEVELS, LIGHTING, OR NOISE, INCLUDING DURATION AND TYPES OF ACTIVITIES REQUIRED, DATED FEBRUARY 8, B.E. 2561 (2018).
** THE MINISTERIAL REGULATION (MINISTRY OF LABOR) ON ESTABLISHING STANDARDS FOR MANAGEMENT AND IMPLEMENTATION OF OCCUPATIONAL SAFETY, HEALTH, AND ENVIRONMENTAL CONDITIONS RELATED TO HEAT, LIGHTING AND NOISE, DATED OCTOBER7, B.E. 2559 (2016).
** THE MINISTRY OF INDUSTRY ANNOUNCEMENT REGARDING SAFETY PROTECTION MEASURES FOR INDUSTRIAL OPERATIONS RELATED TO WORKING ENVIRONMENTAL CONDITIONS, DATED NOVEMBER 6, B.E. 2546 (2003).

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR



ภาคผนวก ค10

รายงานผลการติดตามตรวจสอบความเข้มข้นของผู้

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : พื้นที่โถงคองเก็บเชื้อเพลิง
SAMPLE TYPE : WORKPLACE
SAMPLING DATE : JANUARY 15, 2025
SAMPLING TIME : 08:33-16:33 HOUR
SAMPLING BY : MISS CHAMANDA KIMAKOM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : JANUARY 21, 2025
ANALYTICAL DATE : JANUARY 21-28, 2025
ISSUE DATE : FEBRUARY 3, 2025
REPORT NO. : 2025-U008759
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB193-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			พื้นที่โถงคองเก็บเชื้อเพลิง T25AB193-0001
TOTAL DUST ^c	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	0.129
RESPIRABLE DUST ^a	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.022
SAMPLE CONDITION			COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : ระบบสายพานลำเลียงกากอ้อยจากอาคารเชื้อเพลิงของโรงไฟฟ้าโครงการ 1 มายังโครงการ
SAMPLE TYPE : WORKPLACE
SAMPLING DATE : JANUARY 15, 2025
SAMPLING TIME : 08:40-16:40 HOUR
SAMPLING BY : MISS CHAMANDA KIMAKOM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : JANUARY 21, 2025
ANALYTICAL DATE : JANUARY 21-28, 2025
ISSUE DATE : FEBRUARY 3, 2025
REPORT NO. : 2025-U008760
WORK NO. : 2024-012255
ANALYSIS NO. : T25AB193-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			ระบบสายพานลำเลียงกากอ้อย จากอาคารเชื้อเพลิงของโรงไฟฟ้า โครงการ 1 มายังโครงการ T25AB193-0002
TOTAL DUST ^a	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	1.26
RESPIRABLE DUST ^a	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.096
SAMPLE CONDITION			COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: JANUARY 21, 2025
ADDRESS	: 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JANUARY 21-28, 2025
CONTACT INFORMATION	: TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com	ISSUE DATE	: FEBRUARY 3, 2025
SAMPLING SOURCE	: พื้นที่ใกล้กองเก็บเชื้อเพลิง	REPORT NO.	: 2025-U008761
SAMPLE TYPE	: WORKPLACE	WORK NO.	: 2024-012255
SAMPLING DATE	: JANUARY 15, 2025	ANALYSIS NO.	: T25AB193-0003
SAMPLING TIME	: 08:35-16:35 HOUR		
SAMPLING BY	: MISS CHAMANDA KIMAKOM		
ANALYZED BY	: MISS JETJARIN TUMSA-AT		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			พื้นที่ใกล้กองเก็บเชื้อเพลิง (คุณชัยวัฒนา ชัยมงคล) T25AB193-0003
TOTAL DUST ^c	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST ^a	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.015
SAMPLE CONDITION			COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
SAMPLING SOURCE : ระบบสายพานลำเลียงกากอ้อยจากอาคารเชื้อเพลิงของโรงไฟฟ้าโครงการ 1 มายังโครงการ
SAMPLE TYPE : WORKPLACE **RECEIVED DATE** : JANUARY 21, 2025
SAMPLING DATE : JANUARY 15, 2025 **ANALYTICAL DATE** : JANUARY 21-28, 2025
SAMPLING TIME : 08:42-16:42 HOUR **ISSUE DATE** : FEBRUARY 3, 2025
SAMPLING BY : MISS CHAMANDA KIMAKOM **REPORT NO.** : 2025-U008762
ANALYZED BY : MISS JETJARIN TUMSA-AT **WORK NO.** : 2024-012255
ANALYSIS NO. : T25AB193-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			ระบบสายพานลำเลียงกากอ้อย จากอาคารเชื้อเพลิงของโรงไฟฟ้า โครงการ 1 มายังโครงการ (คุณเรวัฒน์ พูลศิริ) T25AB193-0004
TOTAL DUST ^a	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	0.600
RESPIRABLE DUST ^a	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.286
SAMPLE CONDITION			COMPLETE

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR



ภาคผนวก ค11

รายงานผลการติดตามตรวจสอบ
ระดับความร้อนบริเวณปฏิบัติงาน (WBGT)

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 101 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 06 1607 5422 e-mail : oranee.moo@trrgroup.com
MEASURING PLACE : THAI RUNG RUEANG CORPORATION COMPANY
MEASURING TYPE : WORKPLACE (HEAT STRESS) **RECEIVED DATE** : JANUARY 15, 2025
MEASURING DATE : JANUARY 15, 2025 **ANALYTICAL DATE** : JANUARY 15, 2025
MEASURING TIME : * **ISSUE DATE** : JANUARY 23, 2025
MEASURING EQUIPMENT : WET BULB GLOBE TEMPERATURE** **REPORT NO.** : 2025-U005434
MEASURED BY : MISS CHAMANDA KIMAKOM **WORK NO.** : 2024-012255
ANALYSIS NO. : T25AB194-0001 - T25AB194-0002

ANALYSIS NO.	MEASURING SITE	DURATION TIME*	RESULT (DEGREE CELSIUS)				
			NWB ^c	DB ^c	GT ^c	WBGT ^a	WBGT ^c _{AVG}
T25AB194-0001	บริเวณหม้อไอน้ำ (พื้นที่หน้าเตา 200) (คุณธนทัต จันทร์)	10:00-12:00 HOUR	21.4	31.3	32.1	24.6	24.6
T25AB194-0002	บริเวณเครื่องกำเนิดไฟฟ้า 27 MW (คุณอมรเทพ สามี)	10:05-12:05 HOUR	24.1	35.7	36.1	27.7	27.7

a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARD INSTITUTE (TISI)

c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

** DEPARTMENT OF LABOR PROTECTION AND WELFARE ANNOUNCEMENT REGARDING STANDARDS, METHODS FOR MEASUREMENT AND ANALYSIS OF WORKING CONDITIONS RELATED TO HEAT LEVELS, LIGHTING, OR NOISE, INCLUDING DURATION AND TYPES OF ACTIVITIES REQUIRED, DATED FEBRUARY 8, B.E. 2561 (2018).

** THE MINISTERIAL REGULATION (MINISTRY OF LABOR) ON ESTABLISHING STANDARDS FOR MANAGEMENT AND IMPLEMENTATION OF OCCUPATIONAL SAFETY, HEALTH, AND ENVIRONMENTAL CONDITIONS RELATED TO HEAT, LIGHTING AND NOISE, DATED OCTOBER 7, B.E. 2559 (2016).

** THE MINISTRY OF INDUSTRY ANNOUNCEMENT REGARDING SAFETY PROTECTION MEASURES FOR INDUSTRIAL OPERATIONS RELATED TO WORKING ENVIRONMENTAL CONDITIONS, DATED NOVEMBER 6, B.E. 2546 (2003).

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

