

ภาคผนวก ค

ผลการตรวจวัดคุณภาพสิ่งแวดล้อม

คุณภาพอากาศจากแหล่งกำเนิด



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116349
Date Received :Oct 09, 2023
Date Reported :Oct 19, 2023
Report Number :2796567-1

Page 1 of 1

Sample Number : 23116349-1
Sample Description : Emission from Stationary Source
Location : HRS# #1
Measurement Date : Oct 07, 2023

Stack Description					
Ambient Temperature	31 °C	Diameter	5.00 m	Oxygen	13.78 %
Ambient Pressure	754 mmHg	Shape	Circle	Carbon dioxide	3.66 %
Type of Process	Combustion	Stack Temperature	140 °C	Gas Velocity	25.23 m/s
Type of Fuel	Natural Gas	Moisture	8.03 %	Flow Rate	1173388 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Sulfur Dioxide (ppm)		Carbon Monoxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	10:10 AM - 10:30 AM	13.77	3.66	0.21	0.41	23.17	45.18
2	10:31 AM - 10:51 AM	13.78	3.65	0.11	0.22	21.85	42.67
3	10:52 AM - 11:12 AM	13.78	3.65	0.29	0.57	20.52	40.09
Average (ppm)		13.78	3.66	0.21	0.40	21.85	42.65
Guideline ^{1/} (ppm)				-	15	-	-
Guideline ^{2/} (ppm)				-	20	-	-
Guideline ^{3/} (ppm)				-	-	-	690
Result (mg/Nm ³)				0.54	1.05	25.02	48.84
Emission Rate at Actual O ₂ (g/s)				0.1750		8.1556	
Guideline ^{1/} (g/s)				6.56		-	
Method				US EPA Method 6C		US EPA Method 10	

Sampled By : Saksit Phaisanphisit

Guideline : ^{1/}Environmental Impact Assessment Report of Siam Power Generation Company Limited.

^{2/}Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

^{3/}Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549).

Note : ระบบเดินเครื่องมากกว่า 80 % Load

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
ทะเบียนเลขที่ ๖-204-๕-6113

Approved by

Sarayuth Jitranont
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Type of Process	Combustion	Stack Temperature	140 °C	Gas Velocity	25.23 m/s
Type of Fuel	Natural Gas	Moisture	8.03 %	Flow Rate	1173388 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	at 7% O ₂
1	10:10 AM - 10:30 AM	13.77	3.66	6.03	11.75
2	10:31 AM - 10:51 AM	13.78	3.65	6.12	11.94
3	10:52 AM - 11:12 AM	13.78	3.65	6.03	11.78
Average (ppm)		13.78	3.66	6.06	11.82
Guideline ^{1/} (ppm)				-	60
Guideline ^{2/} (ppm)				-	120
Result (mg/Nm ³)				11.40	22.25
Emission Rate at Actual O ₂ (g/s)				3.7147	
Guideline ^{1/} (g/s)				18.87	
Method				US EPA Method 7E	

Sampled By : Saksit Phaisanphisit

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Project Location :



TESTING
No.0042

Lot ID: 23116350
Date Received : Oct 07, 2023
Date Reported : Oct 17, 2023
Report Number: 2796574-1

Page 1 of 2

Sample Number 23116350-1
Sampled Date Oct 07, 2023
Sample Description Emission from Stationary Source
Location HRS# 1
Date Analysis Commenced Oct 09, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	754	mmHg	Diameter	5.00	m	Oxygen	13.8	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.7	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	25.2	m/s
Type of Fuel	Natural Gas		Moisture	8.02	%	Flow Rate (Actual O2)	1171693	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:10 AM - 10:46 AM	mg/m3	-	0.5	<0.5	60	40	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
(2) : Environmental Impact Assessment Report of General Electric International Operations Company Inc.

Technical Management

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6872-21/ EMAIL

S:\Reports_Air Stack_2GL.rpt (11:19AM)



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
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TESTING
No.0042

Lot ID: 23116350
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Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.7	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	25.2	m/s
Type of Fuel	Natural Gas		Moisture	8.02	%	Flow Rate (Actual O2)	1171693	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	10:10 AM - 10:46 AM	g/s	-	-	<0.163	-	6.69	Calculated	Rayong

Guideline : (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
(2) : Environmental Impact Assessment Report of General Electric International Operations Company Inc.

Sampled By : Jittakorn Sriwasa

Remark :

- LOD : Limit of Detection
- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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S:\Reports_Air Stack_2GL.rpt (11:19AM)

System Audit

CEMs System Audit

Date: October 25,2023

Author: Apisit Singha

CEMS System Audit Inspection Sheet

รายละเอียดโครงการ (Plant Information)

Lot ID

ชื่อโครงการ (Project Name)	Siam Power Generation Co, Ltd.
ที่ตั้ง (Location)	55/1 หมู่ 5 ต.หนองละลอก อ.บ้านค่าย จ.ระยอง
ชื่อปล่อง (Stack name)	HRSG-1
วันที่ตรวจสอบ (Inspection Date)	October 25,2023
เจ้าหน้าที่ประจำโครงการ (Plant Operation Name)	-
เจ้าของโครงการ (Project Owner Name)	General Electric International Operations Company Inc.
เจ้าหน้าที่ตรวจสอบ (ALS Inspector Name)	Apisit Sing-ha



ตำแหน่งติดตั้ง เครื่องตรวจวัด (Analyzer)

What to Check	Observations
ความสูงปล่อง	35.0 m by Drawing
ตำแหน่งติดตั้งเครื่องตรวจวัด (Analyzer)	Near stack on ground floor
Gas Analyzer	
Flow Analyzer	on stack floor
การเข้าถึง (Accessibility) ตำแหน่งเครื่อง CEMs	เข้าถึงได้โดย walk wayและบันไดป็น
สะดวกในการบำรุงรักษาเครื่องตรวจวัด (Analyzer)	สะดวกในการดำเนินการ

Probe and Probe Location Checks

What to Check	Observations
การเข้าถึง (Accessibility) ตำแหน่ง Probe CEMs	walk wayและบันไดป็น
ชนิดของ Probe เก็บตัวอย่าง	SS 316 Heated sampling Probe
ระยะความสูงของจุดติดตั้ง Probe เป็นไปตามข้อกำหนดหรือไม่	32.4 m by Drawing from Mechanical_12_DM-HNE-04-001_Arrangement Drawing of Main Stack_Rev2021 (MOC2020)
ระยะจากปลาย Probe อยู่ห่างจากผนังของปล่อง มากกว่า 1 เมตร	1.5 m from stack wall by Drawing Refer 2.4.30 Equipment Detail list



รายละเอียดของ CEMs (CEMs System Information)

Parameter	Analyzer Brand	Model	Serial No.	Range	System Type*	Sample Condition**	Sampling Technique*	Unit
NO _x	EMERSON	MLT4 T-IR UV/IR IR EO2	454902329210	0-200	D	C	E	ppm
CO				0-100	D	C	E	ppm
O ₂				0-25	D	C	E	%
Flow Meter	DURAG	D-FL 100-20	1306811	0-3,000,000	D	W	I	m ³ /hrs.
Pressure Meter				900-1100	D	W	I	mbar
Temperature Meter				0-250	D	W	I	Degree C

คำจำกัดความ

* (Direct system = D, Dilution system = DI)

** (Hot-Wet = W, Cool-Dry = C)

*/ (Direct Extractive = E, In-situ = I)



Source Level Extractive Systems

What to Check	Observations
ตรวจสอบว่ามีหยดน้ำบริเวณท่อน้ำตัวอย่างที่เข้าสู่ห้องระบบหรือไม่	พบหยดน้ำในสายน้ำ ตัวอย่างที่เข้าสู่ระบบปรับสภาพอากาศ ที่อาจมีผลต่อความถูกต้องในการตรวจวัด
ระบบอากาศแห้ง (Air Dry System) มีการบันทึกค่าอุณหภูมิหรือไม่ และมีการกำหนดช่วงอุณหภูมิ ตาม QA/QC Plan และทำการตรวจสอบอุณหภูมิหรือไม่	มีการจดบันทึกอุณหภูมิ ว่าเป็นไปตามเกณฑ์การยอมรับความใช้ได้ของระบบอากาศแห้งที่ระบุไว้ใน GPFRM-7.1.5-03-OM-SIPCO-003_CEMS Online Calibration Form

Flow Monitors

What to Check	Observations
มีการทดสอบ Flow Monitors ให้เป็นไปตาม QA/QC Plan หรือไม่	ปัจจุบันยังไม่มีแผนการดำเนินการในปี 2565 เนื่องจากมีการปรับเปลี่ยนอุปกรณ์ตรวจวัดในปี 2566 ตามข้อบังคับตามกฎหมาย และกำหนดมีแผนจะดำเนินการทดสอบในช่วง ปี 2567
มีการเปลี่ยนอุปกรณ์ หรือ Filters ตามข้อกำหนดใน QA/QC Plan หรือไม่	ไม่พบการกำหนดหรือการแสดงผลการดำเนินการที่เกี่ยวข้อง
มีการทำ QA/QC temperature และ stack pressure สำหรับแปลงค่า flow monitor ตาม QA/QC Plan หรือไม่	ปัจจุบันยังไม่มีแผนการดำเนินการในปี 2565 เนื่องจากมีการปรับเปลี่ยนอุปกรณ์ตรวจวัดในปี 2566 ตามข้อบังคับตามกฎหมาย และกำหนดมีแผนจะดำเนินการทดสอบในช่วง ปี 2567



มีการทดสอบ Factor ในการแปลงค่า flow monitor หรือไม่	ไม่พบการกำหนดหรือการแสดงผลการดำเนินการที่เกี่ยวข้อง
เมื่อระบบมีปัญหา มีการแสดงสัญญาณเตือน หรือไฟเตือนหรือไม่	ไม่พบการแสดงผลการเตือนปัญหาที่เกี่ยวข้อง

Analyzer

What to Check	Observations
มีการปรับเปลี่ยน (เชื้อเพลิง ระบบบำบัด กำลังการผลิต หรืออื่นๆ) ของแหล่งกำเนิดในการตรวจวัดหรือไม่	ไม่มีการเปลี่ยนแปลงเชื้อเพลิง แต่มีการปรับกำลังการผลิตตามความต้องการของลูกค้า
เมื่อระบบมีปัญหา มีการแสดงสัญญาณเตือน หรือไฟเตือนหรือไม่	มีการแจ้งเตือนที่ระบบในDCS รวมถึงมีการบันทึกการแจ้งเตือนไว้ในระบบ Data locker ของระบบ CEMS ตาม Design ตั้งแต่เริ่มเดินเครื่องผลิตไฟฟ้า
ตรวจสอบช่วงการตรวจวัด (Range) ว่าเป็นไปตามข้อกำหนด หรือไม่	ไม่มีการปรับเปลี่ยน เป็นไปตามข้อกำหนดตามEIAและข้อบังคับตามกฎหมาย Refer to GPWI-7.1.5-03-OM-SIPCO-001_Measuring Equipment and Calibration
ตรวจสอบอัตราการดึงตัวอย่าง (Sampling Flow) เป็นไปตามข้อกำหนดหรือไม่	มีการตรวจสอบตามวงรอบการตรวจสอบการทำงานของระบบ CEMS ตาม CEMS online calibration form: GPFRM-7.1.5-03-OM-SIPCO-003_CEMS Online Calibration Form แต่ไม่สามารถตรวจสอบสถานะการดึงตัวอย่างที่แท้จริงได้



กรณีที่มีการทำ Dilution System มีการเปลี่ยน correction factors ที่ใช้ในการแปลผล หลังจากการทดสอบครั้งล่าสุดหรือไม่	ไม่เกี่ยวข้อง
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Calibration Gases

What to Check	Observations
ชนิดและประเภทของก๊าซมาตรฐาน (Standard Gas)	Standard Single Gas EPA Protocol (Linde)
Span gas	
Diluent Gas	Standard Single Gas EPA Protocol (Linde)
N ₂	UHP grade
วันหมดอายุของก๊าซมาตรฐาน (Standard Gas)	NO _x (D599214): 2 Dec 2025
Span gas	CO (D749327) : 28 Jul 2025
Diluent Gas	O ₂ (18K1149177): 15 Nov 2026
N ₂	105058 valid shelf life date 1 Jun 2024
ช่วงความเข้มข้นของก๊าซมาตรฐาน เป็นไปตามช่วงที่กำหนดหรือไม่ Point 1: 20% - 30% of span Point 2: 50% -60% of span Point 3: 80% - 100% of span	NO _x at Point 3 (172 ppm) CO at Point 3 (85.4 ppm) O ₂ at Point 3 (21.1%)



มีเอกสารยืนยันมาตรฐาน zero air gas ให้เป็นไปตามข้อกำหนดหรือไม่ (Supplier certification)	N ₂ Gas Certify by Linde follow Request
มีการจดบันทึกความเข้มข้นของก๊าซมาตรฐาน ในการทำ Calibration error and linearity test หรือไม่	Record on GPFRM-7.1.5-03-OM-SIPCO-003_CEMS Online Calibration Form
ตรวจสอบแรงดันก๊าซมาตรฐานมีค่า < 150 psi. หรือไม่	Record on GPFRM-7.1.5-03-OM-SIPCO-003_CEMS Online Calibration Form > 150 Psi
Span gas	
Diluent Gas	Record on GPFRM-7.1.5-03-OM-SIPCO-003_CEMS Online Calibration Form > 150 Psi
N ₂	Record on GPFRM-7.1.5-03-OM-SIPCO-003_CEMS Online Calibration Form > 150 Psi
มีการใช้ Stainless steel regulators สำหรับ SO ₂ cylinders หรือไม่	ใช้ stainless steel regulator สำหรับการใช้งานกับ Gas กัดกร่อน

ระบบ DAHS

What to Check	Observations
มีระบบบันทึกข้อมูลที่ครอบคลุมพารามิเตอร์และช่วง การตรวจวัด (Range) ของระบบตรวจวัดหรือไม่	ครอบคลุมทุกค่าที่ทำการตรวจวัด และการบันทึกช่วง การตรวจวัดถูกต้อง ตามระบบบันทึกผลใน CCR
มีการตรวจสอบความถูกต้องของข้อมูลจากเครื่องตรวจวัด ที่เข้าระบบบันทึกข้อมูลหรือไม่	การรับส่งสัญญาณค่าระหว่าง CEMs System และ ระบบบันทึกข้อมูลใน CCR ไม่มีความแตกต่าง เนื่องจากช่วงสัญญาณการตรวจวัดในระบบไม่สามารถ เปลี่ยนแปลงช่วงได้



มีการใส่ correction factors ใน DAHS และมีการบันทึกการใส่ correction factors และ การแก้ไขหรือไม่	มีการใส่ค่า Correct factor ป้องกันการติดลบในระบบ บันทึกข้อมูล NO _x และ O ₂
ระบบการส่งถ่ายข้อมูลเป็นชนิดใด (เช่น Analog, Digital)	เป็นการส่งสัญญาณแบบ Analog (4-20 mA) ที่ไม่ สามารถปรับช่วงการตรวจวัดได้ (single range)

Optional Control Equipment Parameter Monitoring

What to Check	Observations
มี QA/QC Plan ในการยืนยันช่วงการตรวจวัด (Range) ให้ครอบคลุมและเหมาะสมหรือไม่	แผนการทดสอบสอดคล้องกับช่วงการตรวจวัดของ เครื่องมือ เป็นไปตามข้อกำหนดของ DIW และ EIA แต่ไม่ ครอบคลุมการตรวจสอบของการวัด Flow Meter
มีการจดบันทึกการขาดหายของข้อมูลหรือไม่	ไม่มีการบันทึกการขาดหายของข้อมูลในระบบ DAS แต่ มีการคงค่าก่อนหน้าในช่วงเวลาที่มีการทดสอบเครื่องวัด ประจำรอบ
มีวิธีการชดเชย ข้อมูลที่ขาดหายไปหรือไม่	มีการชดเชยข้อมูลตาม PSWI-8.1-01-OM-SIPCO- S057 , 4.3.4 CEMS Malfunction / Exceeded reading than emission limit. ในการชดเชยข้อมูล ที่มีค่าเกินกว่าช่วงการยอมรับ



Maintenance Log Review

What to Check	Observations
สามารถทดสอบการดึงข้อมูลจากระบบบันทึกข้อมูล ได้หรือไม่	สามารถทำการดึงข้อมูลย้อนหลังได้ทุกรายการทดสอบ
มีการแสดงข้อผิดพลาดของระบบตรวจวัดใน ระบบบันทึกข้อมูลหรือไม่	มีการบันทึกข้อผิดพลาดของระบบไว้ในฐานข้อมูล และใน Analyzer Logs
มีการจัดทำคำอธิบายข้อผิดพลาดและการแจ้งเตือนของ ระบบตรวจวัดหรือไม่	มีการแสดงคำอธิบาย สำหรับการแจ้งเตือนในระบบ
มีแนวทางการแก้ไขปัญหาในการเดินระบบเบื้องต้น หรือไม่	มีการกำหนดแนวทางการปฏิบัติเมื่อเกิดความผิดปกติ ของระบบCEMs อ้างอิง Operation Manual (EI-QJY-78-001)
มีการจดบันทึกการปรับแต่งระบบตรวจวัดหรือไม่	มีการจดบันทึกในรายงานการดำเนินงาน (activity Log) ในระบบ และแสดงไว้หน้างาน
มีอุปกรณ์และชิ้นส่วนสำหรับการบำรุงรักษาระบบ หรือไม่	มีครบล้วน ยกเว้นการบำรุงรักษาที่เกินกว่า การบำรุงรักษาปกติ



QA/QC Plan Review

What to Check	Observations
มีการกำหนดช่วงเวลาการทำ QA/QC หรือไม่ และมีการปรับปรุงให้เป็นปัจจุบันหรือไม่	มีการปรับปรุงทุกปี ตามข้อกำหนด ใน Compliance Calendar: QA/QC plan review and completed
มีการกำหนดการปรับปรุงเครื่องมือที่ไม่เป็นไปตามข้อกำหนดหรือไม่	มีการกำหนดได้ตาม Compliance Calendar: QA/QC plan review and completed
มีการเก็บบันทึกการบำรุงรักษาเครื่องวัดหรือไม่	มีการบันทึกได้ตาม C&I-2023 Report Calibration CEMS.

หมายเหตุ : ดัดแปลงจาก 40 CFR Part 60 regulations

ข้อเสนอแนะเพิ่มเติมสำหรับโครงการ

จากการประเมินการดำเนินการทดสอบประจำรอบและการเดินระบบในการตรวจวัดตามปกติของเครื่องวัด พบข้อสังเกตในของการทดสอบ ตามรายละเอียดดังต่อไปนี้

- การจำแนกการดำเนินการในการทดสอบ Bi-weekly Calibration ไม่ตรงกับการดำเนินการที่แท้จริงที่เป็น Direct Calibration และ System Verify check
- พบว่า Sample Gas ของทุกสายการทดสอบวิ่งผ่าน NOx Converter ก่อนทำการวิเคราะห์ แนะนำให้ตรวจสอบการดำเนินการกับทางผู้ผลิตว่า มีผลต่อการตรวจวัดหรือไม่
- ไม่พบการตรวจสอบที่แสดงว่าระบบการติดตั้งตัวอย่างว่า ได้รับการตรวจสอบว่ามีความถูกต้องมากพอที่จะยอมรับได้
- พบการควบคุมอุณหภูมิของห้องระบบตรวจวัด ไม่มีการกำหนดช่วงควบคุม ซึ่งอาจมีผลให้อุณหภูมิที่อยู่ในห้องอาจส่งผลกระทบต่อระบบการติดตั้งตัวอย่างและเครื่องวัด เนื่องจากหากอุณหภูมิของห้องระบบตรวจวัดมีช่วงที่ต่ำเกินไป เมื่อเครื่องตรวจวัดหยุดการเดินระบบ หรือช่วงอุณหภูมิของเครื่องไม่เป็นไปตามข้อกำหนด อาจเกิดความเสียหายและขาดเสถียรภาพของเครื่องตรวจวัดได้ในอนาคต



ในการตรวจสอบการดำเนินการและการติดตั้งอุปกรณ์ตรวจวัดโดยการจัดจ้างการดำเนินการโดยผู้ดำเนินการภายนอกพบข้อสังเกตในการดำเนินการดังนี้

- การเปลี่ยนอุปกรณ์ระบบตรวจวัดอัตราการไหล (Flow Meter) พบว่าไม่มีแสดงการทดสอบความสามารถของอุปกรณ์ที่มีการปรับปรุง รวมถึงไม่มีการแสดงความเจาะจงของอุปกรณ์ที่ทำการดำเนินการในการปรับปรุง เช่น หมายเลขอุปกรณ์ Model รุ่น ชนิด อันแสดงถึงความเจาะจงต่ออุปกรณ์นั้นๆ
- การทดสอบและทวนสอบ ประสิทธิภาพของระบบเครื่องตรวจวัดมวลสาร (Gas Analyzer) พบเพียงการทดสอบความถูกต้องและการตรวจสอบประสิทธิภาพของตัวรับสัญญาณภายในเครื่องมือวัด แต่ไม่แสดงถึงการตรวจสอบอุปกรณ์ที่มีผลต่อการวัดที่อยู่ภายในหรือเกี่ยวเนื่องกับเครื่องวัด

นอกเหนือจากข้อสังเกตในการเดินระบบตรวจวัดแล้ว เนื่องจากในปัจจุบันมีการออกกฎหมายควบคุมเกี่ยวกับการติดตั้งและการส่งข้อมูลของระบบตรวจวัดเข้าสู่ส่วนกลาง ในปี 2565 ตามประกาศกระทรวงอุตสาหกรรมเรื่อง กำหนดให้โรงงานต้องติดตั้งเครื่องมือหรือเครื่องอุปกรณ์พิเศษเพื่อรายงานมลพิษอากาศจากปล่องโรงงาน พ.ศ. 2565 อันมีผลเกี่ยวเนื่องมายังการดำเนินการของทางโรงงาน แนะนำให้ทางโรงงานดำเนินการตรวจสอบ ทวนสอบ และรับรองความสามารถในการตรวจวัดและการรายงานผล เพื่อให้เป็นไปตามกฎหมาย อันประกอบด้วย

- การรายงานค่ามลพิษเข้าสู่ระบบฐานข้อมูลของกรมโรงงาน อันประกอบด้วยรายการตรวจวัด ดังนี้
 - NOx (หน่วย ppm ที่ 7% O₂) ตามข้อกำหนดตาม EIA
 - O₂ (หน่วย %) ตามข้อกำหนดตาม EIA
 - CO (หน่วย ppm ที่ 7% O₂) ตามข้อกำหนดตามกฎหมาย
 - Flow Rate (หน่วย m³/hour) ตามข้อกำหนดตามกฎหมาย
 - Temperature (หน่วย °C) ตามข้อกำหนดตามกฎหมาย
- การดำเนินวางแผนการทดสอบและทวนสอบ ความสามารถและความถูกต้องของเครื่องวัดที่จะต้องรายงานค่าเข้าสู่ระบบฐานข้อมูลของกรมโรงงาน ตามรายละเอียดในข้อข้างต้น

Relative Accuracy Test Audit (RATA)



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23133262

Date Received : Dec 04, 2023
Date Reported : Dec 22, 2023
Report Number : 2838410-2

Sample Number : 23133262-1
Sampled Date : Dec 02, 2023
Sample Description : Emission from Stationary Source
Location : HRSG #1
Parameter : Flowrate

Page 1 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Flowrate Data		Difference
		Start	Stop	CEMs (Nm3/Hr)	RM (Nm3/Hr)	
1	02 Dec 23	9:35	9:55	1,218,762	1,194,175	-24,587
2	02 Dec 23	9:56	10:16	1,219,469	1,185,772	-33,697
3	02 Dec 23	10:17	10:37	1,212,163	1,186,358	-25,805
4	02 Dec 23	16:45	17:05	1,349,291	1,287,912	-61,379
5	02 Dec 23	17:06	17:26	1,347,696	1,287,946	-59,750
6	02 Dec 23	17:27	17:47	1,348,134	1,287,963	-60,171
7	02 Dec 23	17:48	18:08	1,351,129	1,287,853	-63,276
8	02 Dec 23	18:09	18:29	1,348,350	1,302,263	-46,087
9*	02 Dec 23	18:30	18:50	1,394,857	1,299,386	-95,471
10*	02 Dec 23	18:51	19:11	1,414,229	1,348,148	-66,081
11*	02 Dec 23	19:12	19:32	1,409,383	1,340,867	-68,516
12	02 Dec 23	19:33	19:53	1,405,884	1,349,069	-56,815
Average				1,311,209	1,263,257	-47,952
Confidence Coefficient (CC)						12,230
Relative Accuracy ^{1/} (Compared with RM) (%)						4.76
Relative Accuracy Criteria (Compared with RM)						≤ 20 %

Reference Method : US EPA Method 2

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of Flowrate is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 6 (PS-6)

RA Result is within Criteria

Technical Management

Wichan Choonharat

Manager

ทะเบียนเลขที่ ๖-204-ก-6113

Approved by

Sarayuth Jitranont

Assistant General Manager

ทะเบียนเลขที่ ๖-204-ก-4702

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6872-21/EMAIL



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23133262

Date Received : Dec 04, 2023
Date Reported : Dec 22, 2023
Report Number : 2838410-2

Sample Number : 23133262-1
Sampled Date : Dec 02, 2023
Sample Description : Emission from Stationary Source
Location : HRSG #1
Parameter : Stack Temperature

Page 2 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Temperature Data		Difference
		Start	Stop	CEMs (°C)	RM (°C)	
1*	02 Dec 23	9:35	9:55	134.5	138.0	3.5
2*	02 Dec 23	9:56	10:16	134.6	138.4	3.8
3*	02 Dec 23	10:17	10:37	134.5	138.0	3.5
4	02 Dec 23	16:45	17:05	137.6	140.0	2.4
5	02 Dec 23	17:06	17:26	137.5	140.0	2.5
6	02 Dec 23	17:27	17:47	137.4	140.0	2.6
7	02 Dec 23	17:48	18:08	137.4	140.0	2.6
8	02 Dec 23	18:09	18:29	137.3	140.0	2.7
9	02 Dec 23	18:30	18:50	138.1	140.0	1.9
10	02 Dec 23	18:51	19:11	138.8	140.0	1.2
11	02 Dec 23	19:12	19:32	138.7	142.0	3.3
12	02 Dec 23	19:33	19:53	138.7	142.0	3.3
Average				137.9	140.4	2.5
Confidence Coefficient (CC)						0.5
Relative Accuracy ^{1/} (Compared with RM) (%)						2.1
Relative Accuracy Criteria (Compared with RM)						≤ 20 %

Reference Method : US EPA Method 2

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of Stack Temperature is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 6 (PS-6)

RA Result is within Criteria

Sampled By : Sirichock Pongprasom

Technical Management

Wichan Choonharat

Manager

ทะเบียนเลขที่ ๖-204-ก-6113

Approved by

Sarayuth Jitranont

Assistant General Manager

ทะเบียนเลขที่ ๖-204-ก-4702

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S:\Reports\Stack_CEMs1.rpt

6872-21/EMAIL



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23133262
Date Received : Dec 04, 2023
Date Reported : Dec 16, 2023
Report Number: 2838410-1

Page 1 of 12

Sample Number 23133262-2
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.5	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	138	°C	Gas Velocity	25.3	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1194175	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	09:35 AM - 09:55 AM	Nm3/hr	-	-	550695	US EPA, Method 2	Bangkok
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Sampled By : Sirichock Pongprasom

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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6872-21/ EMAIL



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23133262
Date Received : Dec 04, 2023
Date Reported : Dec 16, 2023
Report Number: 2838410-1

Page 2 of 12

Sample Number 23133262-3
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.4	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	138	°C	Gas Velocity	25.2	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1185772	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	09:56 AM - 10:16 AM	Nm3/hr	-	-	551938	US EPA, Method 2	Bangkok
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Sampled By : Sirichock Pongprasom

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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S:\Reports_Air Stack_NGL.rpt (3.06PM)



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23133262

Date Received : Dec 04, 2023

Date Reported : Dec 16, 2023

Report Number: 2838410-1

Page 3 of 12

Sample Number 23133262-4
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.4	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	138	°C	Gas Velocity	25.1	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1186358	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	10:17 AM - 10:37 AM	Nm3/hr	-	-	553918	US EPA, Method 2	Bangkok
-----------	---------------------	--------	---	---	--------	------------------	---------

Sampled By : Sirichock Pongprasom

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong

Scientist (4)

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
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P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23133262

Date Received : Dec 04, 2023

Date Reported : Dec 16, 2023

Report Number: 2838410-1

Page 4 of 12

Sample Number 23133262-5
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.4	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	27.4	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1287912	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	04:45 PM - 05:05 PM	Nm3/hr	-	-	602261	US EPA, Method 2	Bangkok
-----------	---------------------	--------	---	---	--------	------------------	---------

Sampled By : Sirichock Pongprasom

Remark :

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Analysis / Test Report

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P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23133262
Date Received : Dec 04, 2023
Date Reported : Dec 16, 2023
Report Number: 2838410-1

Page 5 of 12

Sample Number 23133262-6
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.4	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	27.4	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1287946	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	05:06 PM - 05:26 PM	Nm3/hr	-	-	598570	US EPA, Method 2	Bangkok
-----------	---------------------	--------	---	---	--------	------------------	---------

Sampled By : Sirichock Pongprasom

Remark :

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Analysis / Test Report

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P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23133262
Date Received : Dec 04, 2023
Date Reported : Dec 16, 2023
Report Number: 2838410-1

Page 6 of 12

Sample Number 23133262-7
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.4	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	27.4	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1287963	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	05:27 PM - 05:47 PM	Nm3/hr	-	-	600432	US EPA, Method 2	Bangkok
-----------	---------------------	--------	---	---	--------	------------------	---------

Sampled By : Sirichock Pongprasom

Remark :

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P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23133262

Date Received : Dec 04, 2023

Date Reported : Dec 16, 2023

Report Number: 2838410-1

Page 7 of 12

Sample Number 23133262-8
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.4	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	27.4	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1287853	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	05:48 PM - 06:08 PM	Nm3/hr	-	-	599454	US EPA, Method 2	Bangkok
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Sampled By : Sirichock Pongprasom

Remark :

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P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23133262

Date Received : Dec 04, 2023

Date Reported : Dec 16, 2023

Report Number: 2838410-1

Page 8 of 12

Sample Number 23133262-9
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.5	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.5	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	27.7	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1302263	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	06:09 PM - 06:29 PM	Nm3/hr	-	-	599603	US EPA, Method 2	Bangkok
-----------	---------------------	--------	---	---	--------	------------------	---------

Sampled By : Sirichock Pongprasom

Remark :

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P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23133262
Date Received : Dec 04, 2023
Date Reported : Dec 16, 2023
Report Number: 2838410-1

Page 9 of 12

Sample Number 23133262-10
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.4	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	27.7	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1299386	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	06:30 PM - 06:50 PM	Nm3/hr	-	-	604822	US EPA, Method 2	Bangkok
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Sampled By : Sirichock Pongprasom

Remark :

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P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23133262
Date Received : Dec 04, 2023
Date Reported : Dec 16, 2023
Report Number: 2838410-1

Page 10 of 12

Sample Number 23133262-11
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.5	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.5	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	28.7	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1348148	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	06:51 PM - 07:11 PM	Nm3/hr	-	-	622670	US EPA, Method 2	Bangkok
-----------	---------------------	--------	---	---	--------	------------------	---------

Sampled By : Sirichock Pongprasom

Remark :

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P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23133262

Date Received : Dec 04, 2023

Date Reported : Dec 16, 2023

Report Number: 2838410-1

Page 11 of 12

Sample Number 23133262-12
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.6	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.5	%
Type of Process	Combustion		Stack Temperature	142	°C	Gas Velocity	28.7	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1340867	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
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Air Testing

Flow rate	07:12 PM - 07:32 PM	Nm3/hr	-	-	611590	US EPA, Method 2	Bangkok
-----------	---------------------	--------	---	---	--------	------------------	---------

Sampled By : Sirichock Pongprasom

Remark :

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P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23133262

Date Received : Dec 04, 2023

Date Reported : Dec 16, 2023

Report Number: 2838410-1

Page 12 of 12

Sample Number 23133262-13
Sampled Date Dec 02, 2023
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Dec 07, 2023

Stack Description

Ambient Pressure	755	mmHg	Diameter	5.00	m	Oxygen	14.5	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	3.5	%
Type of Process	Combustion		Stack Temperature	142	°C	Gas Velocity	28.9	m/s
Type of Fuel	Natural Gas		Moisture	7.25	%	Flow Rate (Actual O2)	1349069	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
---------	--------------	------	-----	-----------	-----------------------------	--------	------------------

Air Testing

Flow rate	07:33 PM - 07:53 PM	Nm3/hr	-	-	617272	US EPA, Method 2	Bangkok
-----------	---------------------	--------	---	---	--------	------------------	---------

Sampled By : Sirichock Pongprasom

Remark :

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
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P/O : No.2010271
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116308
Date Received : Oct 12, 2023
Date Reported : Oct 19, 2023
Report Number: 2796269-1C1

Page 1 of 1

Sample Description	Air Quality						
Location	A1 : หมู่ 10 บ้านนาหลวง (GPS 47P 0741951, 1416054)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Oct 05, 2023 - Oct 12, 2023						
Measurement by	Mongkon Phalathip						
Time	23116308-1 Oct 05, 2023	23116308-2 Oct 06, 2023	23116308-3 Oct 07, 2023	23116308-4 Oct 08, 2023	23116308-5 Oct 09, 2023	23116308-6 Oct 10, 2023	23116308-7 Oct 11, 2023
09:00 AM - 10:00 AM	<0.001	0.004	0.004	0.001	0.008	0.003	0.004
10:00 AM - 11:00 AM	<0.001	0.003	0.002	0.001	0.006	0.002	0.005
11:00 AM - 12:00 PM	0.001	0.002	0.005	<0.001	0.009	0.002	0.003
12:00 PM - 01:00 PM	0.001	0.001	0.008	<0.001	0.004	0.002	0.003
01:00 PM - 02:00 PM	0.001	0.001	<0.001	<0.001	0.002	<0.001	0.002
02:00 PM - 03:00 PM	<0.001	0.001	<0.001	0.001	<0.001	0.001	0.002
03:00 PM - 04:00 PM	0.001	0.001	0.002	<0.001	0.002	<0.001	0.001
04:00 PM - 05:00 PM	<0.001	0.001	0.001	0.001	0.003	<0.001	0.002
05:00 PM - 06:00 PM	<0.001	0.001	0.002	<0.001	0.002	<0.001	0.002
06:00 PM - 07:00 PM	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.001
07:00 PM - 08:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
08:00 PM - 09:00 PM	0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001
09:00 PM - 10:00 PM	0.005	<0.001	<0.001	0.006	0.001	<0.001	<0.001
10:00 PM - 11:00 PM	0.006	0.006	0.001	0.002	0.002	<0.001	0.002
11:00 PM - 12:00 AM	0.003	0.008	0.001	0.003	0.002	0.001	0.006
12:00 AM - 01:00 AM	0.002	0.007	0.003	0.003	0.003	<0.001	0.009
01:00 AM - 02:00 AM	<0.001	0.004	0.006	0.003	0.002	<0.001	0.008
02:00 AM - 03:00 AM	<0.001	0.002	0.004	0.004	0.002	<0.001	0.005
03:00 AM - 04:00 AM	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.002
04:00 AM - 05:00 AM	0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001
05:00 AM - 06:00 AM	0.001	<0.001	0.001	0.003	<0.001	<0.001	<0.001
06:00 AM - 07:00 AM	<0.001	<0.001	0.002	0.002	<0.001	0.002	<0.001
07:00 AM - 08:00 AM	0.011	0.002	0.005	0.013	<0.001	0.002	<0.001
08:00 AM - 09:00 AM	0.005	0.007	0.002	0.021	0.002	0.006	0.002
Average	0.002	0.002	0.002	0.003	0.002	0.001	0.003
1hr - Maximum	0.011	0.008	0.008	0.021	0.009	0.006	0.009
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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Life Sciences

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18309-21/ EMAIL



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2010271
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116310
Date Received : Oct 12, 2023
Date Reported : Oct 19, 2023
Report Number: 2796329-1C1

Page 1 of 1

Sample Description	Air Quality						
Location	A1 : หมู่ 10 บ้านนาหลวง (GPS 47P 0741951, 1416054)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Oct 05, 2023 - Oct 12, 2023						
Measurement by	Mongkon Phalathip						
Time	23116310-1 Oct 05, 2023	23116310-2 Oct 06, 2023	23116310-3 Oct 07, 2023	23116310-4 Oct 08, 2023	23116310-5 Oct 09, 2023	23116310-6 Oct 10, 2023	23116310-7 Oct 11, 2023
09:00 AM - 10:00 AM	<0.001	<0.001	0.001	<0.001	<0.001	0.001	0.001
10:00 AM - 11:00 AM	<0.001	<0.001	0.001	<0.001	<0.001	0.001	0.001
11:00 AM - 12:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
12:00 PM - 01:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
01:00 PM - 02:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
02:00 PM - 03:00 PM	<0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001
03:00 PM - 04:00 PM	<0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001
04:00 PM - 05:00 PM	<0.001	<0.001	0.001	<0.001	0.001	0.001	<0.001
05:00 PM - 06:00 PM	<0.001	<0.001	0.001	<0.001	<0.001	0.001	0.001
06:00 PM - 07:00 PM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
07:00 PM - 08:00 PM	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
08:00 PM - 09:00 PM	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.001
09:00 PM - 10:00 PM	<0.001	0.001	<0.001	0.001	<0.001	<0.001	<0.001
10:00 PM - 11:00 PM	<0.001	0.001	<0.001	0.001	0.001	<0.001	<0.001
11:00 PM - 12:00 AM	<0.001	0.001	0.001	<0.001	0.001	<0.001	<0.001
12:00 AM - 01:00 AM	<0.001	0.001	<0.001	<0.001	0.001	0.001	0.001
01:00 AM - 02:00 AM	<0.001	0.001	<0.001	0.001	0.001	0.001	0.001
02:00 AM - 03:00 AM	<0.001	<0.001	<0.001	0.001	<0.001	0.001	0.001
03:00 AM - 04:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
04:00 AM - 05:00 AM	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001
05:00 AM - 06:00 AM	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.001
06:00 AM - 07:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
07:00 AM - 08:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
08:00 AM - 09:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
Average	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001
1hr - Maximum	<0.001	0.001	0.001	0.001	0.001	0.001	0.001
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

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

Approved by

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18309-21/ EMAIL



Analysis / Test Report



TESTING
No.0042

Lot ID: 23116319

Date Received : Oct 12, 2023

Date Reported : Oct 24, 2023

Report Number: 2796477-1C1

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :

Page 1 of 1

Sample Description	Air Quality				
Location	A1 : หมู่ 10 บ้านนาทอง (GPS 47P 0741951, 1416054)				
Date Analysis Commenced	Oct 13, 2023				
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23116319-1	Oct 05 - Oct 06, 2023	0.021	0.013	757	30
23116319-2	Oct 06 - Oct 07, 2023	0.017	0.013	757	30
23116319-3	Oct 07 - Oct 08, 2023	0.018	0.011	757	31
23116319-4	Oct 08 - Oct 09, 2023	0.023	0.016	757	31
23116319-5	Oct 09 - Oct 10, 2023	0.027	0.020	757	31
23116319-6	Oct 10 - Oct 11, 2023	0.034	0.027	757	31
23116319-7	Oct 11 - Oct 12, 2023	0.035	0.029	757	32
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Mongkon Phalathip

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O : 2010271

Project Name : EIA Monitoring

Project Location :

Lot ID: 23116308

Date Received : Oct 12, 2023

Date Reported : Oct 19, 2023

Report Number: 2811947-1C1

Page 1 of 1

Sample Description	Air Quality						
Location	A2 : บ้านนาทอง (GPS 47P 0741408, 1411396)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Oct 05, 2023 - Oct 12, 2023						
Measurement by	Mongkon Phalathip						
	23116308-8	23116308-9	23116308-10	23116308-11	23116308-12	23116308-13	23116308-14
Time	Oct 05, 2023	Oct 06, 2023	Oct 07, 2023	Oct 08, 2023	Oct 09, 2023	Oct 10, 2023	Oct 11, 2023
10:00 AM - 11:00 AM	0.004	0.004	0.008	0.004	0.002	0.001	0.004
11:00 AM - 12:00 PM	0.003	0.003	0.012	0.002	0.003	0.001	0.001
12:00 PM - 01:00 PM	0.015	0.004	0.008	0.003	<0.001	0.001	0.002
01:00 PM - 02:00 PM	0.005	0.004	0.002	0.002	<0.001	<0.001	<0.001
02:00 PM - 03:00 PM	0.004	0.004	0.002	0.004	0.002	<0.001	0.003
03:00 PM - 04:00 PM	0.007	0.006	0.002	0.004	0.003	<0.001	0.003
04:00 PM - 05:00 PM	0.002	0.006	0.004	0.005	0.004	<0.001	0.004
05:00 PM - 06:00 PM	<0.001	0.003	0.002	0.003	0.003	<0.001	0.002
06:00 PM - 07:00 PM	<0.001	0.005	0.004	0.004	0.010	<0.001	0.003
07:00 PM - 08:00 PM	<0.001	0.003	0.004	<0.001	0.007	<0.001	<0.001
08:00 PM - 09:00 PM	0.002	0.003	0.005	0.002	0.002	0.001	<0.001
09:00 PM - 10:00 PM	0.003	<0.001	0.002	<0.001	0.003	0.002	<0.001
10:00 PM - 11:00 PM	0.004	<0.001	0.002	0.003	0.003	0.002	0.002
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.003	0.004	0.002	0.002
12:00 AM - 01:00 AM	0.005	0.002	0.001	0.002	0.003	0.002	0.001
01:00 AM - 02:00 AM	0.002	0.001	0.002	0.002	0.002	<0.001	<0.001
02:00 AM - 03:00 AM	<0.001	0.002	0.004	0.002	0.002	0.001	<0.001
03:00 AM - 04:00 AM	0.003	0.002	0.003	0.002	0.001	<0.001	<0.001
04:00 AM - 05:00 AM	<0.001	0.002	0.002	0.002	<0.001	<0.001	0.001
05:00 AM - 06:00 AM	0.002	0.002	0.003	0.001	<0.001	0.002	<0.001
06:00 AM - 07:00 AM	0.003	0.002	0.004	0.006	0.001	0.002	0.005
07:00 AM - 08:00 AM	0.006	0.004	0.005	0.003	0.001	0.009	0.002
08:00 AM - 09:00 AM	0.016	0.002	0.004	0.001	0.002	0.004	0.004
09:00 AM - 10:00 AM	0.005	0.002	0.003	0.001	0.002	0.003	0.004
Average	0.004	0.003	0.004	0.003	0.003	0.002	0.002
1hr - Maximum	0.016	0.006	0.012	0.006	0.010	0.009	0.005
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakying
Scientist (3)

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2010271
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116310
Date Received : Oct 12, 2023
Date Reported : Oct 19, 2023
Report Number: 2811950-1C1

Page 1 of 1

Sample Description	Air Quality						
Location	A2 : บ้านนา (GPS 47P 0741408, 1411396)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Oct 05, 2023 - Oct 12, 2023						
Measurement by	Mongkon Phalathip						
	23116310-8	23116310-9	23116310-10	23116310-11	23116310-12	23116310-13	23116310-14
Time	Oct 05, 2023	Oct 06, 2023	Oct 07, 2023	Oct 08, 2023	Oct 09, 2023	Oct 10, 2023	Oct 11, 2023
10:00 AM - 11:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11:00 AM - 12:00 PM	<0.001	0.001	0.001	0.001	0.001	0.001	0.001
12:00 PM - 01:00 PM	0.001	<0.001	<0.001	0.001	0.001	0.001	0.001
01:00 PM - 02:00 PM	0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001
02:00 PM - 03:00 PM	0.001	0.001	<0.001	0.001	0.001	<0.001	<0.001
03:00 PM - 04:00 PM	0.001	0.001	<0.001	0.001	0.001	<0.001	<0.001
04:00 PM - 05:00 PM	0.001	0.001	<0.001	0.001	0.001	<0.001	0.001
05:00 PM - 06:00 PM	0.001	0.001	<0.001	<0.001	0.001	<0.001	0.001
06:00 PM - 07:00 PM	<0.001	0.001	<0.001	0.001	0.001	<0.001	0.001
07:00 PM - 08:00 PM	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001
08:00 PM - 09:00 PM	0.001	0.001	0.001	<0.001	0.001	<0.001	<0.001
09:00 PM - 10:00 PM	0.001	0.001	<0.001	<0.001	0.001	<0.001	0.001
10:00 PM - 11:00 PM	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
11:00 PM - 12:00 AM	0.001	0.001	<0.001	<0.001	0.001	<0.001	<0.001
12:00 AM - 01:00 AM	0.001	0.001	<0.001	<0.001	0.001	<0.001	<0.001
01:00 AM - 02:00 AM	0.001	0.001	<0.001	<0.001	0.001	<0.001	<0.001
02:00 AM - 03:00 AM	0.001	0.001	<0.001	0.001	0.001	<0.001	0.001
03:00 AM - 04:00 AM	0.001	0.001	<0.001	0.001	0.001	<0.001	0.001
04:00 AM - 05:00 AM	0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001
05:00 AM - 06:00 AM	0.001	<0.001	<0.001	0.001	0.001	<0.001	0.001
06:00 AM - 07:00 AM	0.001	0.001	<0.001	0.001	0.001	<0.001	0.001
07:00 AM - 08:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
08:00 AM - 09:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
09:00 AM - 10:00 AM	0.001	0.001	0.001	<0.001	0.001	<0.001	<0.001
Average	0.001	0.001	<0.001	0.001	0.001	<0.001	0.001
1hr - Maximum	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O :
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042

Lot ID: 23116319
Date Received : Oct 12, 2023
Date Reported : Oct 24, 2023
Report Number: 2796477-2C1

Page 1 of 1

Sample Description	Air Quality				
Location	A2 : บ้านนา (GPS 47P 0741408, 1411396)				
Date Analysis Commenced	Oct 13, 2023				
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23116319-8	Oct 05 - Oct 06, 2023	0.028	0.018	757	30
23116319-9	Oct 06 - Oct 07, 2023	0.030	0.016	757	30
23116319-10	Oct 07 - Oct 08, 2023	0.038	0.019	757	31
23116319-11	Oct 08 - Oct 09, 2023	0.036	0.021	757	31
23116319-12	Oct 09 - Oct 10, 2023	0.042	0.027	757	31
23116319-13	Oct 10 - Oct 11, 2023	0.044	0.028	757	31
23116319-14	Oct 11 - Oct 12, 2023	0.037	0.022	757	32
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environment Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Mongkon Phalathip

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.
Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2010271
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116308
Date Received : Oct 12, 2023
Date Reported : Oct 19, 2023
Report Number: 2811948-1C1

Page 1 of 1

Sample Description	Air Quality						
Location	A3 : วัดพนาภรณ์วน (GPS 47P 0747563, 1413915)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Oct 05, 2023 - Oct 12, 2023						
Measurement by	Mongkon Phalathip						
Time	23116308-15 Oct 05, 2023	23116308-16 Oct 06, 2023	23116308-17 Oct 07, 2023	23116308-18 Oct 08, 2023	23116308-19 Oct 09, 2023	23116308-20 Oct 10, 2023	23116308-21 Oct 11, 2023
11:00 AM - 12:00 PM	0.012	0.009	0.010	0.014	0.011	0.009	0.008
12:00 PM - 01:00 PM	0.011	0.011	0.010	0.016	0.008	0.009	0.007
01:00 PM - 02:00 PM	0.010	0.011	0.012	0.016	0.009	0.011	0.008
02:00 PM - 03:00 PM	0.011	0.012	0.009	0.009	0.011	0.011	0.014
03:00 PM - 04:00 PM	0.010	0.013	0.010	0.010	0.014	0.023	0.015
04:00 PM - 05:00 PM	0.011	0.011	0.009	0.009	0.015	0.017	0.011
05:00 PM - 06:00 PM	0.010	0.010	0.011	0.010	0.016	0.014	0.010
06:00 PM - 07:00 PM	0.009	0.009	0.008	0.009	0.011	0.016	0.011
07:00 PM - 08:00 PM	0.011	0.007	0.008	0.009	0.010	0.013	0.012
08:00 PM - 09:00 PM	0.013	0.009	0.008	0.009	0.012	0.014	0.012
09:00 PM - 10:00 PM	0.014	0.008	0.010	0.010	0.011	0.010	0.011
10:00 PM - 11:00 PM	0.011	0.010	0.010	0.009	0.012	0.009	0.010
11:00 PM - 12:00 AM	0.010	0.010	0.009	0.008	0.010	0.008	0.010
12:00 AM - 01:00 AM	0.008	0.008	0.007	0.007	0.008	0.007	0.009
01:00 AM - 02:00 AM	0.006	0.007	0.007	0.006	0.008	0.007	0.008
02:00 AM - 03:00 AM	0.006	0.005	0.007	0.005	0.006	0.006	0.009
03:00 AM - 04:00 AM	0.006	0.006	0.006	0.005	0.007	0.006	0.009
04:00 AM - 05:00 AM	0.005	0.006	0.005	0.005	0.008	0.006	0.009
05:00 AM - 06:00 AM	0.006	0.005	0.005	0.005	0.007	0.006	0.009
06:00 AM - 07:00 AM	0.005	0.006	0.005	0.004	0.008	0.006	0.009
07:00 AM - 08:00 AM	0.005	0.007	0.005	0.005	0.008	0.007	0.011
08:00 AM - 09:00 AM	0.007	0.007	0.006	0.005	0.012	0.008	0.014
09:00 AM - 10:00 AM	0.006	0.008	0.007	0.008	0.011	0.008	0.011
10:00 AM - 11:00 AM	0.009	0.008	0.009	0.010	0.008	0.009	0.012
Average	0.009	0.008	0.008	0.009	0.010	0.010	0.010
1hr - Maximum	0.014	0.013	0.012	0.016	0.016	0.023	0.015
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.
Orawan Rakyong
Scientist (3)

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18309-21V EMAIL



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2010271
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116310
Date Received : Oct 12, 2023
Date Reported : Oct 19, 2023
Report Number: 2811951-1C1

Page 1 of 1

Sample Description	Air Quality						
Location	A3 : วัดพนาภรณ์วน (GPS 47P 0747563, 1413915)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Oct 05, 2023 - Oct 12, 2023						
Measurement by	Mongkon Phalathip						
Time	23116310-15 Oct 05, 2023	23116310-16 Oct 06, 2023	23116310-17 Oct 07, 2023	23116310-18 Oct 08, 2023	23116310-19 Oct 09, 2023	23116310-20 Oct 10, 2023	23116310-21 Oct 11, 2023
11:00 AM - 12:00 PM	0.001	0.002	0.002	0.003	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.001	0.002	0.003	0.003	0.002	0.002	0.001
01:00 PM - 02:00 PM	<0.001	0.003	0.002	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.001	0.002	<0.001	<0.001	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.001	0.001	<0.001	0.001	0.002	0.002	0.002
04:00 PM - 05:00 PM	<0.001	<0.001	<0.001	0.001	0.002	0.001	0.001
05:00 PM - 06:00 PM	<0.001	0.001	0.001	0.001	0.002	<0.001	<0.001
06:00 PM - 07:00 PM	<0.001	0.001	0.001	0.001	0.001	<0.001	0.001
07:00 PM - 08:00 PM	<0.001	0.001	0.001	0.001	0.001	0.001	0.001
08:00 PM - 09:00 PM	<0.001	0.001	0.001	0.001	0.001	<0.001	0.001
09:00 PM - 10:00 PM	<0.001	0.001	0.001	0.001	0.001	0.001	0.001
10:00 PM - 11:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11:00 PM - 12:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12:00 AM - 01:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
01:00 AM - 02:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
02:00 AM - 03:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
03:00 AM - 04:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
04:00 AM - 05:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.002
05:00 AM - 06:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
06:00 AM - 07:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07:00 AM - 08:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.002
08:00 AM - 09:00 AM	0.001	0.002	0.001	0.002	0.001	0.001	0.001
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.001
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.001	0.002	0.002	0.002
Average	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1hr - Maximum	0.002	0.003	0.003	0.003	0.002	0.002	0.002
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

Orawan R.
Orawan Rakyong
Scientist (3)

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18309-21V EMAIL



Analysis / Test Report



TESTING
No.0042

Lot ID: 23116319

Date Received : Oct 12, 2023

Date Reported : Oct 24, 2023

Report Number: 2796477-3C1

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :

Page 1 of 1

Sample Description	Air Quality				
Location	A3 : วัดหนองกรรณ (GPS 47P 0747563, 1413915)				
Date Analysis Commenced	Oct 13, 2023				
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23116319-15	Oct 05 - Oct 06, 2023	0.034	0.021	757	30
23116319-16	Oct 06 - Oct 07, 2023	0.031	0.021	757	30
23116319-17	Oct 07 - Oct 08, 2023	0.030	0.019	757	31
23116319-18	Oct 08 - Oct 09, 2023	0.038	0.018	757	31
23116319-19	Oct 09 - Oct 10, 2023	0.042	0.023	757	31
23116319-20	Oct 10 - Oct 11, 2023	0.039	0.025	757	31
23116319-21	Oct 11 - Oct 12, 2023	0.049	0.026	757	32
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Mongkon Phalathip

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116382
Date Received : Oct 12, 2023
Date Reported : Oct 19, 2023
Report Number : 2796579-1

Page 1 of 2

Sample Number 23116382-1 to 7
Parameter Wind Speed / Wind Direction
Location Ban Mabtong
Sampling Date Oct 05 - Oct 12, 2023
Sampling by Mongkon Phalathip

Time	Oct 05 - Oct 06, 2023		Oct 06 - Oct 07, 2023		Oct 07 - Oct 08, 2023		Oct 08 - Oct 09, 2023		Oct 09 - Oct 10, 2023		Oct 10 - Oct 11, 2023		Oct 11 - Oct 12, 2023	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
09:00 AM - 10:00 AM	0.6	153.0	SSE	2.9	194.0	SSW	1.0	216.0	SW	0.1	-	-	1.3	48.0
10:00 AM - 11:00 AM	0.1	-	-	4.1	236.0	SW	2.1	146.0	SE	0.6	202.0	SSW	1.1	66.0
11:00 AM - 12:00 PM	0.3	178.0	S	0.0	-	-	2.2	120.0	ESE	2.3	188.0	S	0.9	204.0
12:00 PM - 01:00 PM	0.6	129.0	SE	2.9	119.0	ESE	1.3	338.0	NNW	1.2	186.0	S	1.0	121.0
01:00 PM - 02:00 PM	1.2	198.0	SSW	1.7	138.0	SE	1.3	41.0	NE	1.9	230.0	SW	0.0	-
02:00 PM - 03:00 PM	0.2	-	-	4.4	150.0	SSE	1.2	46.0	NE	1.9	240.0	WSW	1.1	108.0
03:00 PM - 04:00 PM	0.6	153.0	SSE	0.6	184.0	S	1.0	150.0	SSE	0.3	211.0	SSW	2.9	134.0
04:00 PM - 05:00 PM	0.1	-	-	1.1	176.0	S	0.9	122.0	ESE	0.2	-	-	1.1	127.0
05:00 PM - 06:00 PM	0.3	137.0	SE	0.4	200.0	SSW	0.8	121.0	ESE	0.2	-	-	0.7	113.0
06:00 PM - 07:00 PM	0.2	-	-	0.3	158.0	SSW	0.3	240.0	WSW	0.2	-	-	0.3	148.0
07:00 PM - 08:00 PM	0.2	-	-	0.2	-	-	0.2	-	-	0.3	195.0	SSW	0.2	-
08:00 PM - 09:00 PM	0.1	-	-	0.1	-	-	0.1	-	-	0.2	-	-	0.1	-
09:00 PM - 10:00 PM	0.1	-	-	0.2	-	-	0.2	-	-	0.1	-	-	0.3	146.0
10:00 PM - 11:00 PM	0.6	142.0	SE	0.1	-	-	0.2	-	-	0.3	196.0	SSW	0.2	-
11:00 PM - 12:00 AM	0.7	217.0	SW	0.1	-	-	0.1	-	-	0.2	-	-	0.2	-
12:00 AM - 01:00 AM	0.4	168.0	SSE	0.3	165.0	SSE	0.1	-	-	0.1	-	-	0.1	-
01:00 AM - 02:00 AM	0.3	198.0	SSW	0.2	-	-	0.1	-	-	0.2	-	-	0.2	-
02:00 AM - 03:00 AM	0.1	-	-	1.0	211.0	SSW	0.0	-	-	0.2	-	-	1.3	313.0
03:00 AM - 04:00 AM	0.2	-	-	2.1	254.0	WSW	0.4	228.0	SW	0.1	-	-	0.1	-
04:00 AM - 05:00 AM	0.1	-	-	1.2	179.0	S	0.3	175.0	S	0.1	-	-	0.2	-
05:00 AM - 06:00 AM	0.2	-	-	0.6	164.0	SSE	0.2	-	-	0.1	-	-	0.9	315.0
06:00 AM - 07:00 AM	0.1	-	-	0.2	-	-	0.1	-	-	0.2	-	-	1.0	328.0
07:00 AM - 08:00 AM	0.3	212.0	SSW	0.1	-	-	0.2	-	-	0.1	-	-	1.0	331.0
08:00 AM - 09:00 AM	2.1	144.0	SE	0.6	164.0	SSE	0.2	-	-	0.6	195.0	SSW	2.6	338.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116382
Date Received : Oct 12, 2023
Date Reported : Oct 19, 2023
Report Number : 2796579-1

Page 2 of 2



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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116311
Date Received : Oct 12, 2023
Date Reported : Oct 20, 2023
Report Number : 2796426-1 C1

Page 1 of 2

Sample Number : 23116311-1 to 7
Parameter : Wind Speed / Wind Direction
Location : Ban Krachedlang (Wad Krached)
Sampling Date : Oct 05 - Oct 12, 2023
Sampling by : Mongkon Phalathip

Time	Oct 05 - Oct 06, 2023			Oct 06 - Oct 07, 2023			Oct 07 - Oct 08, 2023			Oct 08 - Oct 09, 2023			Oct 09 - Oct 10, 2023			Oct 10 - Oct 11, 2023			Oct 11 - Oct 12, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	0.2	-	-	0.1	-	-	0.1	-	-	1.2	305.0	NW	0.0	-	-	0.1	-	-	0.0	-	-
11:00 AM - 12:00 PM	0.1	-	-	0.3	174.0	S	0.1	-	-	2.0	44.0	NE	1.0	32.0	NNE	0.1	-	-	0.7	23.0	NNE
12:00 PM - 01:00 PM	0.0	-	-	0.0	-	-	0.2	-	-	0.3	60.0	ENE	0.0	-	-	0.2	-	-	0.0	-	-
01:00 PM - 02:00 PM	0.1	-	-	0.0	-	-	0.3	166.0	SSE	0.2	-	-	1.2	179.0	S	0.0	-	-	0.4	171.0	S
02:00 PM - 03:00 PM	0.4	192.0	SSW	0.0	-	-	0.1	-	-	0.1	-	-	0.3	215.0	SW	0.2	-	-	0.2	-	-
03:00 PM - 04:00 PM	0.0	-	-	1.0	174.0	S	0.2	-	-	0.4	312.0	NW	0.1	-	-	0.1	-	-	0.1	-	-
04:00 PM - 05:00 PM	0.0	-	-	0.3	172.0	S	0.1	-	-	0.2	-	-	0.2	-	-	0.1	-	-	0.1	-	-
05:00 PM - 06:00 PM	0.4	200.0	SSW	0.1	-	-	0.1	-	-	0.1	-	-	0.2	-	-	0.1	-	-	0.2	-	-
06:00 PM - 07:00 PM	0.3	179.0	S	0.2	-	-	0.1	-	-	0.2	-	-	0.3	170.0	S	0.2	-	-	0.1	-	-
07:00 PM - 08:00 PM	0.2	-	-	0.1	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.0	-	-	0.1	-	-
08:00 PM - 09:00 PM	0.2	-	-	0.2	-	-	0.0	-	-	0.1	-	-	0.0	-	-	0.2	-	-	0.2	-	-
09:00 PM - 10:00 PM	0.3	173.0	S	0.1	-	-	0.0	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.2	-	-
10:00 PM - 11:00 PM	0.1	-	-	0.1	-	-	0.0	-	-	0.2	-	-	0.3	170.0	S	0.2	-	-	0.1	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.1	-	-
12:00 AM - 01:00 AM	0.1	-	-	0.1	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.1	-	-	0.1	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.2	-	-
02:00 AM - 03:00 AM	0.1	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.2	-	-	0.0	-	-	0.2	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.2	-	-	0.1	-	-	0.1	-	-	0.2	-	-
04:00 AM - 05:00 AM	0.1	-	-	0.1	-	-	0.2	-	-	0.3	261.0	W	0.0	-	-	0.1	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.1	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.2	-	-	0.1	-	-	0.0	-	-	0.2	-	-	0.1	-	-	1.8	341.0	NNW
07:00 AM - 08:00 AM	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.1	-	-	0.3	41.0	NE	0.1	-	-
08:00 AM - 09:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.3	62.0	ENE	0.4	46.0	NE	0.3	42.0	NE
09:00 AM - 10:00 AM	0.2	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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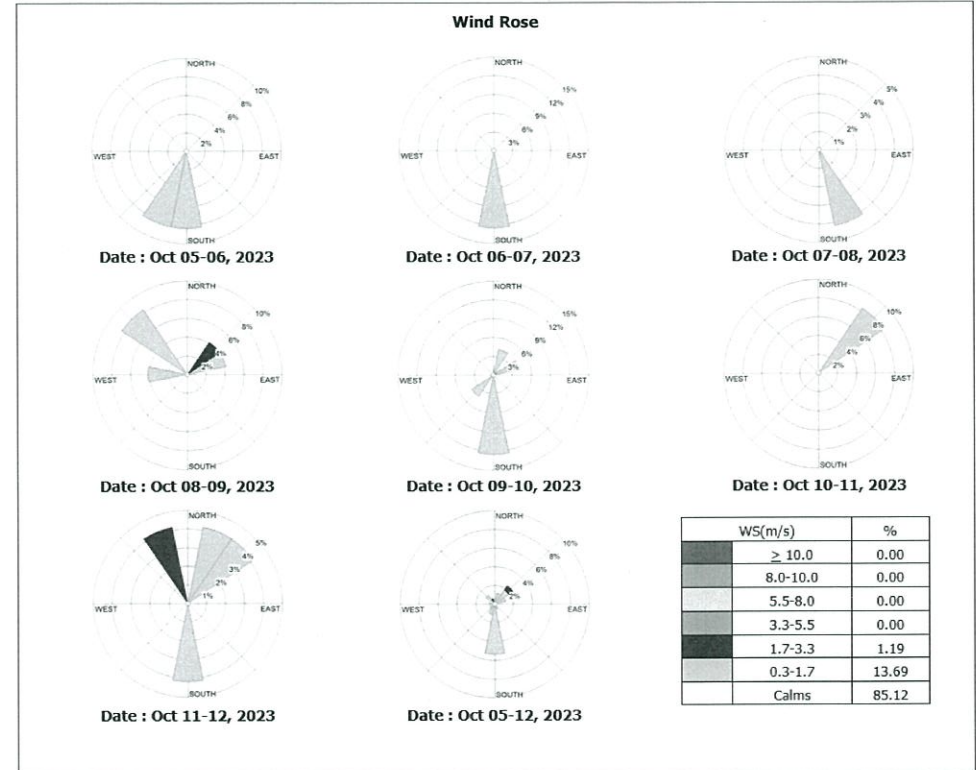


Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116311
Date Received : Oct 12, 2023
Date Reported : Oct 20, 2023
Report Number : 2796426-1 C1

Page 2 of 2



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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116382
Date Received : Oct 12, 2023
Date Reported : Oct 19, 2023
Report Number : 2796579-1

Page 1 of 2

Sample Number : 23116382-8 to 14
Parameter : Wind Speed / Wind Direction
Location : Ban Nonglaloak (Wad Nongkrabok)
Sampling Date : Oct 05 - Oct 12, 2023
Sampling by : Mongkon Phalathip

Time	Oct 05 - Oct 06, 2023		Oct 06 - Oct 07, 2023		Oct 07 - Oct 08, 2023		Oct 08 - Oct 09, 2023		Oct 09 - Oct 10, 2023		Oct 10 - Oct 11, 2023		Oct 11 - Oct 12, 2023	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
11:00 AM - 12:00 PM	0.1	-	2.9	221.0	1.9	231.0	1.5	178.0	0.1	-	0.3	72.0	0.9	10.0
12:00 PM - 01:00 PM	0.2	-	2.1	201.0	1.1	201.0	0.0	-	0.2	-	0.2	-	0.4	200.0
01:00 PM - 02:00 PM	0.2	-	1.4	206.0	0.1	-	0.2	-	0.0	-	0.5	219.0	0.5	186.0
02:00 PM - 03:00 PM	0.2	-	0.6	191.0	0.2	-	0.2	-	0.8	207.0	0.5	199.0	0.8	357.0
03:00 PM - 04:00 PM	0.3	181.0	1.9	212.0	0.2	-	0.1	-	0.6	199.0	0.3	180.0	0.9	197.0
04:00 PM - 05:00 PM	0.1	-	0.3	202.0	0.1	-	0.1	-	0.8	196.0	0.1	-	0.0	-
05:00 PM - 06:00 PM	0.2	-	0.2	-	1.0	198.0	0.2	-	0.2	-	0.1	-	0.1	-
06:00 PM - 07:00 PM	0.2	-	0.2	-	1.0	190.0	0.1	-	0.1	-	0.1	-	0.0	-
07:00 PM - 08:00 PM	0.1	-	0.3	200.0	0.2	-	0.2	-	0.3	169.0	0.2	-	0.0	-
08:00 PM - 09:00 PM	0.2	-	0.2	-	0.5	183.0	0.0	-	0.0	-	0.1	-	0.0	-
09:00 PM - 10:00 PM	0.1	-	0.0	-	0.2	-	0.3	119.0	0.1	-	0.1	-	0.2	-
10:00 PM - 11:00 PM	0.0	-	0.1	-	0.1	-	0.2	-	0.1	-	0.0	-	0.1	-
11:00 PM - 12:00 AM	0.0	-	0.2	-	0.2	-	0.1	-	0.1	-	0.0	-	0.1	-
12:00 AM - 01:00 AM	0.0	-	0.1	-	0.1	-	0.3	120.0	0.0	-	0.1	-	0.2	-
01:00 AM - 02:00 AM	0.0	-	0.2	-	0.1	-	0.2	-	0.0	-	0.0	-	0.0	-
02:00 AM - 03:00 AM	0.0	-	0.1	-	0.0	-	0.1	-	0.6	208.0	0.1	-	0.0	-
03:00 AM - 04:00 AM	0.0	-	0.0	-	0.1	-	0.2	-	0.2	-	0.0	-	0.0	-
04:00 AM - 05:00 AM	0.0	-	0.3	183.0	0.0	-	0.0	-	0.3	104.0	0.0	-	0.0	-
05:00 AM - 06:00 AM	0.1	-	0.2	-	0.1	-	0.1	-	0.0	-	0.1	-	1.3	103.0
06:00 AM - 07:00 AM	1.2	179.0	0.3	184.0	0.1	-	0.2	-	0.3	10.0	0.0	-	2.1	291.0
07:00 AM - 08:00 AM	0.0	-	0.2	-	0.1	-	0.2	-	0.0	-	0.0	-	0.3	34.0
08:00 AM - 09:00 AM	1.1	161.0	0.1	-	0.3	118.0	0.1	-	1.4	20.0	0.1	-	0.2	-
09:00 AM - 10:00 AM	2.7	215.0	0.6	193.0	0.2	-	0.1	-	1.0	39.0	0.0	-	0.5	43.0
10:00 AM - 11:00 AM	1.7	220.0	0.9	199.0	0.1	-	0.1	-	0.9	30.0	1.2	171.0	0.3	56.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrant
Assistant General Manager

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116382
Date Received : Oct 12, 2023
Date Reported : Oct 19, 2023
Report Number : 2796579-1

Page 2 of 2



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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 2371147
Date Received : Jul 21, 2023
Date Reported : Jul 27, 2023
Report Number : 2731215-1

Page 1 of 1

Sample Number	2371147-1
Sampled Date	Jul 21, 2023 1:44 PM
Sample Description	Wastewater
Location	Normal Pond (Sump)
Date Analysis Commenced	Jul 21, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	28	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	12.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	29.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	4080	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	110	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Sampling By : Pathompong Kornsawat ทะเบียนเลขที่ ๖-323-๙-9468 , Thanasoun Namakunna ทะเบียนเลขที่ ๖-204-๙-8592

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Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ๖-323-๙-9445

Approved by

D. Khunon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๙-9442

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 2384544
Date Received : Aug 17, 2023
Date Reported : Aug 24, 2023
Report Number : 2755251-1

Page 1 of 1

Sample Number	2384544-1
Sampled Date	Aug 17, 2023 9:20 AM
Sample Description	Wastewater
Location	Normal Pond (Sump)
Date Analysis Commenced	Aug 17, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	30.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	62	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Sampling By : Narunat thammasaro ทะเบียนเลขที่ ๖-323-๙-9477 , Panupong Manit ทะเบียนเลขที่ ๖-204-๙-8600

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Technical Management

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Narumon Banchongkit
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ทะเบียนเลขที่ ๖-323-๙-9445

Approved by

D. Khunon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๙-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042

Lot ID: 2395476
Date Received : Sep 21, 2023
Date Reported : Sep 28, 2023
Report Number : 2791324-1

Page 1 of 1

Sample Number	2395476-1
Sampled Date	Sep 21, 2023 9:24 AM
Sample Description	Wastewater
Location	Normal Pond (Sump)
Date Analysis Commenced	Sep 21, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	36	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	1.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	31.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	4520	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Sampling By : Tanasit Wongsachai ทะเบียนเลขที่ ๖-323-๙-9460 , Panupong Manit ทะเบียนเลขที่ ๖-204-๙-8600

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Technical Management

N. Banongkit

Narumon Banhongkit
Supervisor

ทะเบียนเลขที่ ๖-323-๙-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ๖-323-๙-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042

Lot ID: 23111287
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number : 2818197-1

Page 1 of 1

Sample Number	23111287-1
Sampled Date	Oct 19, 2023 9:00 AM
Sample Description	Wastewater
Location	Normal Pond (Sump)
Date Analysis Commenced	Oct 19, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	42	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	31.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1150	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Sampling By : Narunat thammasaro ทะเบียนเลขที่ ๖-323-๙-9477 , Samart Khumplinee ทะเบียนเลขที่ ๖-204-๙-7830

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Narumon Banhongkit
Supervisor

ทะเบียนเลขที่ ๖-323-๙-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ๖-323-๙-9442

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23123545
Date Received : Nov 16, 2023
Date Reported : Nov 23, 2023
Report Number : 2845407-1

Page 1 of 1

Sample Number	23123545-1
Sampled Date	Nov 16, 2023 10:30 AM
Sample Description	Wastewater
Location	Normal Pond (Sump)
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	4.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	48	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	29.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1390	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	85	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-ก-9476 , Panupong Manit ทะเบียนเลขที่ ว-204-ก-8600

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Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-ก-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-9442

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23134802
Date Received : Dec 13, 2023
Date Reported : Dec 20, 2023
Report Number : 2868651-1

Page 1 of 1

Sample Number	23134802-1
Sampled Date	Dec 13, 2023 9:40 AM
Sample Description	Wastewater
Location	Normal Pond (Sump)
Date Analysis Commenced	Dec 13, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	8.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	29.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	584	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	29	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-ก-0005 , Panupong Manit ทะเบียนเลขที่ ว-204-ก-8600

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Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-ก-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

TESTING
No.0042
Lot ID: 2371147
Date Received : Jul 21, 2023
Date Reported : Jul 27, 2023
Report Number : 2731216-1

Page 1 of 2

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	29	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	32.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1790	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Pathompong Komsawat ทะเบียนเลขที่ ร-323-จ-9468 , Thanasoun Namakunna ทะเบียนเลขที่ ร-204-จ-8592

Remark :
- LOD : Limit of Detection

Technical Management

N. Banchookit

Narumon Banchookit
Supervisor
ทะเบียนเลขที่ ร-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ร-323-จ-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

TESTING
No.0042
Lot ID: 2371147
Date Received : Jul 21, 2023
Date Reported : Jul 27, 2023
Report Number : 2731216-1

Page 2 of 2

- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

N. Banchookit

Narumon Banchookit
Supervisor
ทะเบียนเลขที่ ร-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ร-323-จ-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2371147
Date Received : Jul 21, 2023
Date Reported : Jul 29, 2023
Report Number : 2731216-2

Page 1 of 1

Sample Number	2371147-2
Sampled Date	Jul 21, 2023 1:40 PM
Sample Description	Wastewater
Location	Final Pond (Holding Pond)
Date Analysis Commenced	Jul 21, 2023
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium	mg/L	0.03	0.05	117	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.03	0.05	18.0	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	8.91	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.03	0.05	391	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.028	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.58	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Pathompong Komsawat , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Approved by

Chanatt L.

Chanattagam Imchom
Section Head

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O :
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042

Lot ID: 2384544
Date Received : Aug 17, 2023
Date Reported : Aug 24, 2023
Report Number : 2755252-1

Page 1 of 2

Sample Number	2384544-2
Sampled Date	Aug 17, 2023 9:30 AM
Sample Description	Wastewater
Location	Final Pond (Holding Pond)
Date Analysis Commenced	Aug 17, 2023
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	44	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CI (F)	Rayong
Temperature *	Degree C	-	-	33.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1690	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Narunat thammassaro ทะเบียนเลขที่ ๖-323-๖-9477 , Panupong Manit ทะเบียนเลขที่ ๖-204-๖-8600

Remark :

- LOD : Limit of Detection

Technical Management

N. Banphit

Narumon Banchoangkit
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :



TESTING

No.0042

Lot ID: 2384544

Date Received : Aug 17, 2023

Date Reported : Aug 24, 2023

Report Number : 2755252-1

Page 2 of 2

- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :



TESTING

No.0009

Lot ID: 2384544

Date Received : Aug 17, 2023

Date Reported : Aug 24, 2023

Report Number : 2755252-2

Page 1 of 1

Sample Number	2384544-2						
Sampled Date	Aug 17, 2023 9:30 AM						
Sample Description	Wastewater						
Location	Final Pond (Holding Pond)						
Date Analysis Commenced	Aug 17, 2023						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium	mg/L	0.03	0.05	106	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.03	0.05	18.5	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	10.4	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.03	0.05	441	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	6.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.028	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.74	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Narunat thammasaro , Panupong Manit

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

โทรศัพท์ ๖-๓๒๓-๖-๙๔๔๕

Approved by

D. Changchon

Dej Changchon

Senior Manager

โทรศัพท์ ๖-๓๒๓-๖-๙๔๔๕

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Approved by

Sawitree N.

Sawitree Noisangiam

Manager

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042
Lot ID: 2395476
Date Received : Sep 21, 2023
Date Reported : Sep 28, 2023
Report Number : 2791325-1

Page 1 of 2

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	50	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.2	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CI (F)	Rayong
Temperature *	Degree C	-	-	31.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1620	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Tanasit Wongsachai ทะเนตติวงศ์ ๖-323-๙-9460, Panupong Manit พาณูปถมนัติ ๖-204-๙-8600

Remark :
- LOD : Limit of Detection

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ๖-323-๙-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๙-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042
Lot ID: 2395476
Date Received : Sep 21, 2023
Date Reported : Sep 28, 2023
Report Number : 2791325-1

Page 2 of 2

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Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ๖-323-๙-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๙-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 2395476
Date Received : Sep 21, 2023
Date Reported : Sep 28, 2023
Report Number : 2791325-2

Page 1 of 1

Sample Number	2395476-2
Sampled Date	Sep 21, 2023 9:29 AM
Sample Description	Wastewater
Location	Final Pond (Holding Pond)
Date Analysis Commenced	Sep 21, 2023
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium	mg/L	0.03	0.05	95.7	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.03	0.05	17.7	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	9.64	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.03	0.05	391	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
Dissolved Oxygen	mg/L	-	0.1	6.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate	m3/hr	-	-	108	No Standard	Flow meter	Rayong
Nitrate as N	mg/L	0.015	0.05	2.21	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Tanasit Wongsachai , Panupong Manit

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

TESTING
No.0042
Lot ID: 23111287
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number : 2818196-1

Page 1 of 2

Sample Number	23111287-2
Sampled Date	Oct 19, 2023 9:10 AM
Sample Description	Wastewater
Location	Final Pond (Holding Pond)
Date Analysis Commenced	Oct 19, 2023
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	48	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1580	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Narunat thammasaro ทะเบียนเลขที่ ร-323-ก-9477 , Samart Khumphlee ทะเบียนเลขที่ ร-204-ก-7830

Remark :

- LOD : Limit of Detection

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ร-323-ก-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ร-323-ก-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042
Lot ID: 23111287
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number : 2818196-1

Page 2 of 2

- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0009
Lot ID: 23111287
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number : 2818196-2

Page 1 of 1

Sample Number 23111287-2
Sampled Date Oct 19, 2023 9:10 AM
Sample Description Wastewater
Location Final Pond (Holding Pond)
Date Analysis Commenced Oct 19, 2023
Condition of Sample Contained in one amber glass bottle, one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium	mg/L	0.03	0.05	119	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.03	0.05	17.5	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	0.10	10.0	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.03	0.05	442	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	5.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/h	-	-	101	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	4.01	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Narunat thammasaro , Samart Khumphlee

Remark :

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Technical Management

N. Banthit

Narumon Banchongkit
Supervisor
โทร: 09-0944-323

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทร: 09-0944-323

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Approved by

Savitree N.

Savitree Noisangiam
Manager

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042
Lot ID: 23121031
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number : 2808890-1

Page 1 of 1

Sample Number	23121031-1
Sampled Date	Oct 19, 2023 9:10 AM
Sample Description	Wastewater
Location	บึงหนองนา Final Pond (Holding Pond)
Date Analysis Commenced	Oct 20, 2023
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.8	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong

Guideline : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Narunat thamasaro ทะเบียนเลขที่ ๖-323-๖-9477 , Samart Khumphlee ทะเบียนเลขที่ ๖-204-๖-7830

Remark :

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Technical Management

N. Bangkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name : EIA Monitoring
Project Location :



TESTING
No.0009
Lot ID: 23121031
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number : 2808890-2

Page 1 of 1

Sample Number	23121031-1
Sampled Date	Oct 19, 2023 9:10 AM
Sample Description	Wastewater
Location	บึงหนองนา Final Pond (Holding Pond)
Date Analysis Commenced	Oct 20, 2023
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Narunat thamasaro ทะเบียนเลขที่ ๖-323-๖-9477 , Samart Khumphlee ทะเบียนเลขที่ ๖-204-๖-7830

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Technical Management

Sawitree N.

Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ๖-204-๖-4709

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ๖-204-๖-6111

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name : EIA Monitoring
Project Location :



TESTING
No.0009

Lot ID: 23121031
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number : 2808890-3

Page 1 of 1

Sample Number	23121031-1
Sampled Date	Oct 19, 2023 9:10 AM
Sample Description	Wastewater
Location	บึงหนองนา Final Pond (Holding Pond)
Date Analysis Commenced	Oct 20, 2023
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Narunat thammasaro , Samart Khumphlee

Remark :

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Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042

Lot ID: 23123545
Date Received : Nov 16, 2023
Date Reported : Nov 23, 2023
Report Number : 2845408-1

Page 1 of 2

Sample Number	23123545-2
Sampled Date	Nov 16, 2023 10:20 AM
Sample Description	Wastewater
Location	Final Pond (Holding Pond)
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	34	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	33.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2130	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

Remark :

Technical Management

N. Banongkit

Narumon Banhongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Chongchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-จ-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042
Lot ID: 23123545
Date Received : Nov 16, 2023
Date Reported : Nov 23, 2023
Report Number : 2845408-1

Page 2 of 2

- LOD : Limit of Detection
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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0009
Lot ID: 23123545
Date Received : Nov 16, 2023
Date Reported : Nov 23, 2023
Report Number : 2845408-2

Page 1 of 1

Sample Number 23123545-2
Sampled Date Nov 16, 2023 10:20 AM
Sample Description Wastewater
Location Final Pond (Holding Pond)
Date Analysis Commenced Nov 16, 2023
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium	mg/L	0.03	0.05	129	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.03	0.05	18.4	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	0.10	11.1	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.03	0.05	511	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	6.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.027	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	1.62	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Paramet Sattayakun , Panupong Manit

Remark :

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Technical Management

N. Banngkit

Narumon Banchongkit
Supervisor
โทรศัพท์ ๖-323-๙-๙445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๙-9442

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Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1781
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042

Lot ID: 23121037
Date Received : Nov 16, 2023
Date Reported : Nov 22, 2023
Report Number : 2808891-1

Page 1 of 1

Sample Number	23121037-1
Sampled Date	Nov 16, 2023 10:20 AM
Sample Description	Wastewater
Location	บึงหนอง Final Pond (Holding Pond)
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	2.6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong

Guideline : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ๖-323-๖-9476 , Panupong Manit ทะเบียนเลขที่ ๖-204-๖-8600

Remark :

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Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1781
Project Name : EIA Monitoring
Project Location :



TESTING
No.0009

Lot ID: 23121037
Date Received : Nov 16, 2023
Date Reported : Nov 22, 2023
Report Number : 2808891-2

Page 1 of 1

Sample Number	23121037-1
Sampled Date	Nov 16, 2023 10:20 AM
Sample Description	Wastewater
Location	บึงหนอง Final Pond (Holding Pond)
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ๖-323-๖-9476 , Panupong Manit ทะเบียนเลขที่ ๖-204-๖-8600

Remark :

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Technical Management

Chanatt L.

Chanattagam Imchom
Section Head
ทะเบียนเลขที่ ๖-204-๖-4710

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ๖-204-๖-6111

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1781
Project Name : EIA Monitoring
Project Location :



TESTING
No.0009
Lot ID: 23121037
Date Received : Nov 16, 2023
Date Reported : Nov 22, 2023
Report Number : 2808891-3

Page 1 of 1

Sample Number 23121037-1
Sampled Date Nov 16, 2023 10:20 AM
Sample Description Wastewater
Location บึงหนองบัว Final Pond (Holding Pond)
Date Analysis Commenced Nov 17, 2023
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Paramet Sattayakun , Panupong Manit

Remark :

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Approved by

Chanatt L.

Chanattagam Imchom
Section Head

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042
Lot ID: 23134802
Date Received : Dec 13, 2023
Date Reported : Dec 20, 2023
Report Number : 2868652-1

Page 1 of 2

Sample Number 23134802-2
Sampled Date Dec 13, 2023 9:30 AM
Sample Description Wastewater
Location Final Pond (Holding Pond)
Date Analysis Commenced Dec 13, 2023
Condition of Sample Contained in one amber glass bottle, one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	39	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1760	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ 2-323-2-0005 , Panupong Manit ทะเบียนเลขที่ 2-204-2-8600

Remark :

Technical Management

N. Banphit

Narumon Banchoangkit
Supervisor
ทะเบียนเลขที่ 2-323-2-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
ทะเบียนเลขที่ 2-323-2-9442

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Analysis / Test Report

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P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042
Lot ID: 23134802
Date Received : Dec 13, 2023
Date Reported : Dec 20, 2023
Report Number : 2868652-1

Page 2 of 2

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Analysis / Test Report

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55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :



TESTING
No.0009
Lot ID: 23134802
Date Received : Dec 13, 2023
Date Reported : Dec 20, 2023
Report Number : 2868652-2

Page 1 of 1

Sample Number 23134802-2
Sampled Date Dec 13, 2023 9:30 AM
Sample Description Wastewater
Location Final Pond (Holding Pond)
Date Analysis Commenced Dec 13, 2023
Condition of Sample Contained in one amber glass bottle, one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium	mg/L	0.03	0.05	94.4	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.03	0.05	15.7	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	0.10	12.5	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.03	0.05	498	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	4.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.024	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	1.76	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Sansoen Khuiyoksui , Panupong Manit

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
โทรศัพท์ ๖-323-๙-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๙-9442

Approved by

Savitree N.

Savitree Naisangiam
Manager

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1781
Project Name : EIA Monitoring
Project Location :



TESTING
No.0042
Lot ID: 23123543
Date Received : Dec 13, 2023
Date Reported : Dec 19, 2023
Report Number : 2814603-1

Page 1 of 1

Sample Number 23123543-1
Sampled Date Dec 13, 2023 9:30 AM
Sample Description Wastewater
Location บึงฉลวย Final Pond (Holding Pond)
Date Analysis Commenced Dec 14, 2023
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	2.4	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong

Guideline : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ๖-323-๖-0005

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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P/O : 2023-1781
Project Name : EIA Monitoring
Project Location :



TESTING
No.0009
Lot ID: 23123543
Date Received : Dec 13, 2023
Date Reported : Dec 19, 2023
Report Number : 2814603-2

Page 1 of 1

Sample Number 23123543-1
Sampled Date Dec 13, 2023 9:30 AM
Sample Description Wastewater
Location บึงฉลวย Final Pond (Holding Pond)
Date Analysis Commenced Dec 14, 2023
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ๖-323-๖-0005

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Technical Management

Sawitree N.

Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ๖-204-๖-4709

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ๖-204-๖-6111

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P/O : 2023-1781
Project Name : EIA Monitoring
Project Location :

TESTING
No.0009
Lot ID: 23123543
Date Received : Dec 13, 2023
Date Reported : Dec 19, 2023
Report Number : 2814603-3

Page 1 of 1

Sample Number 23123543-1
Sampled Date Dec 13, 2023 9:30 AM
Sample Description Wastewater
Location Final Pond (Holding Pond)
Date Analysis Commenced Dec 14, 2023
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.12	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Sansoen Khuiyoksui

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Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2395417
Date Received : Sep 21, 2023
Date Reported : Sep 29, 2023
Report Number : 2745966-1 C1

Page 1 of 6

Sample Number	2395417-1							
Sampled Date	Sep 21, 2023 10:50 AM							
Sample Description	Surface Water							
Location	SW1 : ก่อนไหลผ่านจุดระบายน้ำทั้ง 1,000 เมตร							
Date Analysis Commenced	Sep 21, 2023							
Condition of Sample	Contained in one BOD bottle, two glass vials, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Volatile Organics Compounds								
Bromodichloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Water Testing								
BOD *	mg/L	-	2	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.114	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.67	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong

Approved by

N. Banphit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

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55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2395417
Date Received : Sep 21, 2023
Date Reported : Sep 29, 2023
Report Number : 2745966-1 C1

Page 2 of 6

Sample Number	2395417-1							
Sampled Date	Sep 21, 2023 10:50 AM							
Sample Description	Surface Water							
Location	SW1 : ก่อนไหลผ่านจุดระบายน้ำทั้ง 1,000 เมตร							
Date Analysis Commenced	Sep 21, 2023							
Condition of Sample	Contained in one BOD bottle, two glass vials, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
pH at 25 degree C		-	-	7.0	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	110	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	55	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampling By : Tanasit Wongsachai ทะนันชัย วี-323-จ-9460 , Panupong Manit พาณูปง มณี วี-204-จ-8600

Remark :

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Approved by

N. Banphit

Narumon Banchongkit
Supervisor

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18309-21/ EMAIL



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name :
Project Location :
TESTING
No.0042
Lot ID: 23132310
Date Received : Dec 13, 2023
Date Reported : Dec 23, 2023
Report Number : 2834058-1 C1

Page 1 of 6

Sample Number	23132310-1							
Sampled Date	Dec 13, 2023 1:50 PM							
Sample Description	Surface Water							
Location	SW1 : ก่อนไหลผ่านจุดระบายน้ำทั้ง 1,000 เมตร							
Date Analysis Commenced	Dec 13, 2023							
Condition of Sample	Contained in one amber glass bottle, one BOD bottle, two glass vials and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Volatile Organics Compounds								
Bromodichloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Chloroform *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Dibromochloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Total Trihalomethanes *	ug/L	0.2	1	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Water Testing								
BOD *	mg/L	-	2	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.253	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.76	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong

Approved by

N. Banchoangkit

Narumon Banchoangkit
Supervisor

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Analysis / Test Report

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55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name :
Project Location :
TESTING
No.0042
Lot ID: 23132310
Date Received : Dec 13, 2023
Date Reported : Dec 23, 2023
Report Number : 2834058-1 C1

Page 2 of 6

Sample Number	23132310-1							
Sampled Date	Dec 13, 2023 1:50 PM							
Sample Description	Surface Water							
Location	SW1 : ก่อนไหลผ่านจุดระบายน้ำทั้ง 1,000 เมตร							
Date Analysis Commenced	Dec 13, 2023							
Condition of Sample	Contained in one amber glass bottle, one BOD bottle, two glass vials and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
pH at 25 degree C		-	-	7.5	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.9	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	95	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	7	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ 7-323-2-0005

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

N. Banchoangkit

Narumon Banchoangkit
Supervisor

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2395417
Date Received : Sep 21, 2023
Date Reported : Sep 29, 2023
Report Number : 2745966-1 C1

Page 5 of 6

Sample Number	2395417-3							
Sampled Date	Sep 21, 2023 11:05 AM							
Sample Description	Surface Water							
Location	SW2 : บริเวณจุดระบายน้ำทิ้ง							
Date Analysis Commenced	Sep 21, 2023							
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD *	mg/L	-	2	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.503	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.84	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	278	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	109	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

N. Banchookit

Narumon Banchongkit
Supervisor

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P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2395417
Date Received : Sep 21, 2023
Date Reported : Sep 29, 2023
Report Number : 2745966-1 C1

Page 6 of 6

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampling By : Tanasit Wongsachai ทะเนสินเวชที่ ว-323-จ-9460 , Panupong Manit ทะเนสินเวชที่ ว-204-จ-8600

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

N. Banchookit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

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P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 23132310
Date Received : Dec 13, 2023
Date Reported : Dec 23, 2023
Report Number : 2834058-1 C1

Page 5 of 6

Sample Number	23132310-3							
Sampled Date	Dec 13, 2023 2:10 PM							
Sample Description	Surface Water							
Location	SW2 : บริเวณจุดระบายน้ำทิ้ง							
Date Analysis Commenced	Dec 13, 2023							
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD *	mg/L	-	2	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.9	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.217	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.78	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.4	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	440	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	20	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Supervisor

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Analysis / Test Report

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55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 23132310
Date Received : Dec 13, 2023
Date Reported : Dec 23, 2023
Report Number : 2834058-1 C1

Page 6 of 6

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampling By : Sansoen Khuyoksuai ทะเบียนเลขที่ 7-323-3-0005

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

N. Banphit

Narumon Banchongkit
Supervisor

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P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2395417
Date Received : Sep 21, 2023
Date Reported : Sep 29, 2023
Report Number : 2745966-1 C1

Page 3 of 6

Sample Number	2395417-2
Sampled Date	Sep 21, 2023 11:20 AM
Sample Description	Surface Water
Location	SW3 : หลังโหลผ่านจุดระบายน้ำทั้ง 1,000 เมตร
Date Analysis Commenced	Sep 21, 2023
Condition of Sample	Contained in one BOD bottle, two glass vials, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Volatile Organics Compounds								
Bromodichloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Water Testing								
BOD *	mg/L	-	2	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.9	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	1.920	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.75	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong

Approved by

N. Banphit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

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P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2395417
Date Received : Sep 21, 2023
Date Reported : Sep 29, 2023
Report Number : 2745966-1 C1

Page 4 of 6

Sample Number	2395417-2
Sampled Date	Sep 21, 2023 11:20 AM
Sample Description	Surface Water
Location	SW3 : หลังโหลผ่านจุดระบายน้ำทั้ง 1,000 เมตร
Date Analysis Commenced	Sep 21, 2023
Condition of Sample	Contained in one BOD bottle, two glass vials, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
pH at 25 degree C		-	-	7.3	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	170	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	94	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampling By : Tanasit Wongsachai ทะเบียนเลขที่ ร-323-จ-9460 , Panupong Manit ทะเบียนเลขที่ ร-204-จ-8600

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

N. Banphit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

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55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name :

Project Location :



TESTING
No.0042
Lot ID: 23132310
Date Received : Dec 13, 2023
Date Reported : Dec 23, 2023
Report Number : 2834058-1 C1

Page 3 of 6

Sample Number	23132310-2						
Sampled Date	Dec 13, 2023 2:40 PM						
Sample Description	Surface Water						
Location	SW3 : แหล่งไหลผ่านจุดระบายน้ำทั้ง 1,000 เมตร						
Date Analysis Commenced	Dec 13, 2023						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle, two glass vials and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Volatile Organics Compounds								
Bromodichloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Chloroform *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Dibromochloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Total Trihalomethanes *	ug/L	0.2	1	Not Detected	No Standard	No Standard	In-house method based on United Bangkok States Environmental Protection Agency, EPA Method 5030 B and 8260 D	
Water Testing								
BOD *	mg/L	-	2	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.8	≥4	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.105	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.64	≤5	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

N. Banmhit

Narumon Banchongkit
Supervisor

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Life Sciences

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18309-21/ EMAIL



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name :

Project Location :



TESTING
No.0042
Lot ID: 23132310
Date Received : Dec 13, 2023
Date Reported : Dec 23, 2023
Report Number : 2834058-1 C1

Page 4 of 6

Sample Number	23132310-2						
Sampled Date	Dec 13, 2023 2:40 PM						
Sample Description	Surface Water						
Location	SW3 : แหล่งไหลผ่านจุดระบายน้ำทั้ง 1,000 เมตร						
Date Analysis Commenced	Dec 13, 2023						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle, two glass vials and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
pH at 25 degree C		-	-	7.5	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	(c)	(c)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	308	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	18	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampling By : Sansoen Khuiyokui หน่อสนเอยุค ๖-323-๖-0005

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

N. Banmhit

Narumon Banchongkit
Supervisor

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ระดับเสียงโดยทั่วไป



Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23116322

Date Received : Oct 12, 2023

Date Reported : Oct 24, 2023

Report Number: 2806748-1C1

Page 1 of 1

Sample Number	23116322-1
Parameter	Noise (Leq 24 hrs.)
Location	N1 : หมู่ 10 บ้านนาบดอง (GPS 47P 0742983, 1415574)
Measurement Date	Oct 05 - Oct 06, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623396

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.7	84.9	42.8
11:00 AM - 12:00 PM	50.8	79.7	42.4
12:00 PM - 01:00 PM	55.6	71.6	47.1
01:00 PM - 02:00 PM	48.4	69.9	45.3
02:00 PM - 03:00 PM	48.3	73.7	45.5
03:00 PM - 04:00 PM	55.3	81.8	46.1
04:00 PM - 05:00 PM	52.9	80.6	44.1
05:00 PM - 06:00 PM	53.7	78.7	48.2
06:00 PM - 07:00 PM	50.8	69.2	47.9
07:00 PM - 08:00 PM	49.6	75.7	45.4
08:00 PM - 09:00 PM	49.4	61.1	47.1
09:00 PM - 10:00 PM	51.5	64.8	47.9
10:00 PM - 11:00 PM	64.4	92.5	49.6
11:00 PM - 12:00 AM	62.2	92.7	47.6
12:00 AM - 01:00 AM	50.3	67.0	45.8
01:00 AM - 02:00 AM	48.0	62.9	46.3
02:00 AM - 03:00 AM	49.8	74.4	46.4
03:00 AM - 04:00 AM	51.3	77.1	46.1
04:00 AM - 05:00 AM	53.9	76.0	47.0
05:00 AM - 06:00 AM	51.1	74.8	46.1
06:00 AM - 07:00 AM	49.5	75.2	44.3
07:00 AM - 08:00 AM	47.8	74.2	42.4
08:00 AM - 09:00 AM	55.2	86.3	40.8
09:00 AM - 10:00 AM	47.3	69.3	42.1

Leq Average 24 hrs. (dB(A))	55.2		
Lmax (dB(A))		92.7	
L90 (dB(A))			46.1
Ldn (dB(A))	63.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita Kulsuriwong

Scientist (4)

Approved by

Supot Salamteh

Section Head

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23116322

Date Received : Oct 12, 2023

Date Reported : Oct 24, 2023

Report Number: 2806749-1C1

Page 1 of 1

Sample Number	23116322-2
Parameter	Noise (Leq 24 hrs.)
Location	N1 : หมู่ 10 บ้านนาบดอง (GPS 47P 0742983, 1415574)
Measurement Date	Oct 06 - Oct 07, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623396

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	47.4	64.4	42.7
11:00 AM - 12:00 PM	47.2	71.3	41.4
12:00 PM - 01:00 PM	45.2	59.0	41.9
01:00 PM - 02:00 PM	53.8	83.6	41.5
02:00 PM - 03:00 PM	51.1	80.4	41.5
03:00 PM - 04:00 PM	55.3	78.2	41.7
04:00 PM - 05:00 PM	55.9	80.6	42.8
05:00 PM - 06:00 PM	49.4	80.4	44.2
06:00 PM - 07:00 PM	47.9	64.2	46.2
07:00 PM - 08:00 PM	47.1	67.7	45.7
08:00 PM - 09:00 PM	49.3	61.5	46.7
09:00 PM - 10:00 PM	50.8	64.0	48.4
10:00 PM - 11:00 PM	48.4	61.5	45.9
11:00 PM - 12:00 AM	47.1	62.3	44.7
12:00 AM - 01:00 AM	46.6	76.0	44.4
01:00 AM - 02:00 AM	47.6	73.5	43.9
02:00 AM - 03:00 AM	45.1	54.8	43.5
03:00 AM - 04:00 AM	50.8	74.3	44.0
04:00 AM - 05:00 AM	52.4	76.6	44.9
05:00 AM - 06:00 AM	57.9	93.2	44.9
06:00 AM - 07:00 AM	50.9	69.8	44.8
07:00 AM - 08:00 AM	47.2	66.6	43.1
08:00 AM - 09:00 AM	49.6	80.4	43.6
09:00 AM - 10:00 AM	48.0	67.5	42.7

Leq Average 24 hrs. (dB(A))	51.2		
Lmax (dB(A))		93.2	
L90 (dB(A))			43.9
Ldn (dB(A))	57.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita Kulsuriwong

Scientist (4)

Approved by

Supot Salamteh

Section Head

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116322
Date Received : Oct 12, 2023
Date Reported : Oct 24, 2023
Report Number: 2806750-1C1

Page 1 of 1

Sample Number	23116322-3
Parameter	Noise (Leq 24 hrs.)
Location	N1 : หมู่ 10 บ้านบางคอง (GPS 47P 0742983, 1415574)
Measurement Date	Oct 07 - Oct 08, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623396

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.5	100.4	42.1
11:00 AM - 12:00 PM	47.3	62.3	41.2
12:00 PM - 01:00 PM	46.8	76.8	41.3
01:00 PM - 02:00 PM	45.0	68.4	42.1
02:00 PM - 03:00 PM	46.7	62.9	42.4
03:00 PM - 04:00 PM	57.9	78.6	45.6
04:00 PM - 05:00 PM	53.0	76.9	44.0
05:00 PM - 06:00 PM	54.0	78.9	44.7
06:00 PM - 07:00 PM	46.5	65.6	44.2
07:00 PM - 08:00 PM	52.4	75.7	43.5
08:00 PM - 09:00 PM	55.5	81.0	45.9
09:00 PM - 10:00 PM	47.5	61.6	45.6
10:00 PM - 11:00 PM	49.0	67.2	46.0
11:00 PM - 12:00 AM	50.3	79.4	46.2
12:00 AM - 01:00 AM	48.1	61.5	45.9
01:00 AM - 02:00 AM	47.2	73.0	42.7
02:00 AM - 03:00 AM	47.2	73.8	43.5
03:00 AM - 04:00 AM	52.1	76.4	46.9
04:00 AM - 05:00 AM	54.7	75.2	48.5
05:00 AM - 06:00 AM	54.8	75.2	47.1
06:00 AM - 07:00 AM	51.7	71.9	43.6
07:00 AM - 08:00 AM	48.1	68.5	43.4
08:00 AM - 09:00 AM	50.3	78.9	42.4
09:00 AM - 10:00 AM	46.7	69.6	40.4

Leq Average 24 hrs. (dB(A))	52.7		
Lmax (dB(A))		100.4	
L90 (dB(A))			43.6
Ldn (dB(A))	58.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Tharita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116322
Date Received : Oct 12, 2023
Date Reported : Oct 24, 2023
Report Number: 2806751-1C1

Page 1 of 1

Sample Number	23116322-4
Parameter	Noise (Leq 24 hrs.)
Location	N1 : หมู่ 10 บ้านบางคอง (GPS 47P 0742983, 1415574)
Measurement Date	Oct 08 - Oct 09, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623396

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.8	87.7	41.4
11:00 AM - 12:00 PM	46.1	68.3	40.6
12:00 PM - 01:00 PM	49.4	73.3	41.6
01:00 PM - 02:00 PM	51.3	76.6	41.9
02:00 PM - 03:00 PM	47.6	73.8	44.2
03:00 PM - 04:00 PM	49.3	76.4	44.0
04:00 PM - 05:00 PM	49.4	72.6	45.3
05:00 PM - 06:00 PM	48.6	76.7	45.8
06:00 PM - 07:00 PM	47.2	63.4	45.4
07:00 PM - 08:00 PM	45.8	61.3	44.4
08:00 PM - 09:00 PM	47.4	77.3	44.4
09:00 PM - 10:00 PM	50.1	67.8	46.8
10:00 PM - 11:00 PM	49.6	64.7	47.0
11:00 PM - 12:00 AM	48.4	69.1	45.8
12:00 AM - 01:00 AM	47.4	61.4	45.3
01:00 AM - 02:00 AM	50.5	73.2	46.8
02:00 AM - 03:00 AM	51.8	73.2	48.4
03:00 AM - 04:00 AM	54.3	74.3	49.1
04:00 AM - 05:00 AM	55.0	84.2	48.6
05:00 AM - 06:00 AM	51.5	71.0	46.7
06:00 AM - 07:00 AM	51.2	78.4	45.9
07:00 AM - 08:00 AM	47.4	67.6	42.3
08:00 AM - 09:00 AM	49.4	77.7	41.8
09:00 AM - 10:00 AM	48.0	74.7	41.0

Leq Average 24 hrs. (dB(A))	50.4		
Lmax (dB(A))		87.7	
L90 (dB(A))			45.3
Ldn (dB(A))	57.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Tharita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23116322

Date Received : Oct 12, 2023

Date Reported : Oct 24, 2023

Report Number: 2806752-1C1

Page 1 of 1

Sample Number 23116322-5
Parameter Noise (Leq 24 hrs.)
Location N1 : หมู่ 10 บ้านนาบดอง (GPS 47P 0742983, 1415574)
Measurement Date Oct 09 - Oct 10, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 623396

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	44.4	70.5	37.2
11:00 AM - 12:00 PM	48.3	69.6	37.5
12:00 PM - 01:00 PM	45.3	65.8	38.5
01:00 PM - 02:00 PM	45.8	68.2	39.1
02:00 PM - 03:00 PM	47.5	73.2	40.4
03:00 PM - 04:00 PM	48.9	76.7	42.8
04:00 PM - 05:00 PM	47.4	78.3	44.2
05:00 PM - 06:00 PM	46.9	61.6	45.2
06:00 PM - 07:00 PM	44.6	61.6	43.1
07:00 PM - 08:00 PM	48.9	79.6	45.0
08:00 PM - 09:00 PM	51.8	65.6	47.7
09:00 PM - 10:00 PM	51.3	75.5	48.2
10:00 PM - 11:00 PM	50.6	63.7	45.9
11:00 PM - 12:00 AM	48.6	63.9	45.0
12:00 AM - 01:00 AM	46.0	66.2	43.6
01:00 AM - 02:00 AM	48.6	71.8	44.7
02:00 AM - 03:00 AM	53.0	78.0	46.9
03:00 AM - 04:00 AM	55.6	83.1	49.9
04:00 AM - 05:00 AM	53.7	76.9	47.8
05:00 AM - 06:00 AM	51.9	76.1	46.2
06:00 AM - 07:00 AM	49.6	75.2	44.6
07:00 AM - 08:00 AM	48.5	74.2	41.9
08:00 AM - 09:00 AM	48.9	70.3	42.8
09:00 AM - 10:00 AM	46.8	71.2	37.5

Leq Average 24 hrs. (dB(A)) 49.9
Lmax (dB(A)) 83.1
L90 (dB(A)) 44.2
Ldn (dB(A)) 57.8
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supt S

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23116322

Date Received : Oct 12, 2023

Date Reported : Oct 24, 2023

Report Number: 2806753-1C1

Page 1 of 1

Sample Number 23116322-6
Parameter Noise (Leq 24 hrs.)
Location N1 : หมู่ 10 บ้านนาบดอง (GPS 47P 0742983, 1415574)
Measurement Date Oct 10 - Oct 11, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 623396

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	45.4	72.7	37.0
11:00 AM - 12:00 PM	47.6	78.5	37.0
12:00 PM - 01:00 PM	51.1	66.9	39.5
01:00 PM - 02:00 PM	49.8	72.2	40.2
02:00 PM - 03:00 PM	47.3	75.3	41.9
03:00 PM - 04:00 PM	49.4	74.3	42.1
04:00 PM - 05:00 PM	47.6	73.3	41.2
05:00 PM - 06:00 PM	52.2	76.8	41.7
06:00 PM - 07:00 PM	42.7	54.9	41.3
07:00 PM - 08:00 PM	45.5	59.0	42.3
08:00 PM - 09:00 PM	49.9	64.9	46.2
09:00 PM - 10:00 PM	48.0	61.1	45.4
10:00 PM - 11:00 PM	48.0	72.5	45.3
11:00 PM - 12:00 AM	47.7	57.6	45.5
12:00 AM - 01:00 AM	48.1	71.2	46.3
01:00 AM - 02:00 AM	48.6	73.1	44.8
02:00 AM - 03:00 AM	50.7	73.8	46.2
03:00 AM - 04:00 AM	52.0	75.3	46.7
04:00 AM - 05:00 AM	53.0	80.1	45.6
05:00 AM - 06:00 AM	53.0	79.7	45.3
06:00 AM - 07:00 AM	51.2	79.7	45.5
07:00 AM - 08:00 AM	48.1	72.9	43.4
08:00 AM - 09:00 AM	51.0	74.3	44.6
09:00 AM - 10:00 AM	52.3	79.4	46.0

Leq Average 24 hrs. (dB(A)) 49.9
Lmax (dB(A)) 80.1
L90 (dB(A)) 44.6
Ldn (dB(A)) 57.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supt S

Supot Salamteh
Section Head

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Life Sciences

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18309-21/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 23116322

Date Received : Oct 12, 2023

Date Reported : Oct 24, 2023

Report Number: 2806754-1C1

Page 1 of 1

Sample Number	23116322-7
Parameter	Noise (Leq 24 hrs.)
Location	N1 : หมู่ 10 บ้านมาดลอง (GPS 47P 0742983, 1415574)
Measurement Date	Oct 11 - Oct 12, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623396

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.1	74.9	44.2
11:00 AM - 12:00 PM	52.9	78.4	47.3
12:00 PM - 01:00 PM	54.6	75.5	50.3
01:00 PM - 02:00 PM	57.1	77.7	53.5
02:00 PM - 03:00 PM	55.1	73.0	52.1
03:00 PM - 04:00 PM	51.1	74.1	43.8
04:00 PM - 05:00 PM	44.9	70.4	40.8
05:00 PM - 06:00 PM	48.3	78.4	42.6
06:00 PM - 07:00 PM	43.1	57.3	41.3
07:00 PM - 08:00 PM	47.5	75.0	42.9
08:00 PM - 09:00 PM	51.3	65.2	46.7
09:00 PM - 10:00 PM	51.3	67.3	47.4
10:00 PM - 11:00 PM	51.6	67.2	48.0
11:00 PM - 12:00 AM	53.9	82.9	43.9
12:00 AM - 01:00 AM	48.4	74.2	45.8
01:00 AM - 02:00 AM	46.6	68.7	43.4
02:00 AM - 03:00 AM	48.3	70.3	43.7
03:00 AM - 04:00 AM	59.7	76.1	46.6
04:00 AM - 05:00 AM	65.2	83.0	48.3
05:00 AM - 06:00 AM	51.7	73.3	45.8
06:00 AM - 07:00 AM	50.3	69.1	45.9
07:00 AM - 08:00 AM	50.1	69.2	44.9
08:00 AM - 09:00 AM	51.8	70.4	46.2
09:00 AM - 10:00 AM	51.3	75.5	48.2

Leq Average 24 hrs. (dB(A))	54.9		
Lmax (dB(A))		83.0	
L90 (dB(A))			45.8
Ldn (dB(A))	63.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Life Sciences

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18309-21/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120

P/O : 2023-1047

Project Name : EIA Monitoring

Project Location :

Lot ID: 23116384

Date Received : Oct 12, 2023

Date Reported : Oct 18, 2023

Report Number: 2806740-1

Page 1 of 1

Sample Number	23116384-1
Parameter	Noise (Leq 24 hrs.)
Location	N2 : รั้วบริเวณโครงการระยะที่ 1 ทางด้านทิศเหนือ
Measurement Date	Oct 05 - Oct 06, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623395

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.6	82.2	54.9
12:00 PM - 01:00 PM	56.5	66.8	55.6
01:00 PM - 02:00 PM	57.5	68.8	56.4
02:00 PM - 03:00 PM	56.1	66.4	55.2
03:00 PM - 04:00 PM	56.2	70.6	55.0
04:00 PM - 05:00 PM	56.6	68.5	55.4
05:00 PM - 06:00 PM	61.6	75.6	56.3
06:00 PM - 07:00 PM	61.0	69.1	57.3
07:00 PM - 08:00 PM	57.3	69.3	56.1
08:00 PM - 09:00 PM	57.1	71.4	56.2
09:00 PM - 10:00 PM	57.6	82.6	56.6
10:00 PM - 11:00 PM	57.0	75.3	55.9
11:00 PM - 12:00 AM	63.1	95.3	55.7
12:00 AM - 01:00 AM	61.0	94.2	56.0
01:00 AM - 02:00 AM	56.6	64.0	55.6
02:00 AM - 03:00 AM	56.6	64.6	55.7
03:00 AM - 04:00 AM	56.9	62.4	56.1
04:00 AM - 05:00 AM	58.1	62.2	56.9
05:00 AM - 06:00 AM	59.4	70.1	57.1
06:00 AM - 07:00 AM	57.0	65.4	56.2
07:00 AM - 08:00 AM	56.6	73.8	55.3
08:00 AM - 09:00 AM	56.5	67.6	55.6
09:00 AM - 10:00 AM	57.0	68.6	55.9
10:00 AM - 11:00 AM	56.4	64.1	55.6

Leq Average 24 hrs. (dB(A))	58.3		
Lmax (dB(A))		95.3	
L90 (dB(A))			55.9
Ldn (dB(A))	65.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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6872-21/ EMAIL

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116384
Date Received : Oct 12, 2023
Date Reported : Oct 18, 2023
Report Number: 2806741-1

Page 1 of 1

Sample Number	23116384-2
Parameter	Noise (Leq 24 hrs.)
Location	N2 : รั้วรั้วโครงการระยะที่ 1 ทางด้านทิศเหนือ
Measurement Date	Oct 06 - Oct 07, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623395

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.8	81.5	55.9
12:00 PM - 01:00 PM	57.1	74.1	55.9
01:00 PM - 02:00 PM	57.4	66.2	56.4
02:00 PM - 03:00 PM	57.1	66.4	56.4
03:00 PM - 04:00 PM	57.2	68.0	56.5
04:00 PM - 05:00 PM	57.7	82.5	56.3
05:00 PM - 06:00 PM	61.1	73.0	55.9
06:00 PM - 07:00 PM	60.1	67.7	56.1
07:00 PM - 08:00 PM	56.5	64.8	55.9
08:00 PM - 09:00 PM	56.3	60.8	55.8
09:00 PM - 10:00 PM	56.4	77.3	55.6
10:00 PM - 11:00 PM	56.2	68.8	54.8
11:00 PM - 12:00 AM	56.4	76.9	55.1
12:00 AM - 01:00 AM	56.6	71.2	55.6
01:00 AM - 02:00 AM	56.9	69.0	55.2
02:00 AM - 03:00 AM	55.7	62.2	55.1
03:00 AM - 04:00 AM	55.9	61.8	55.2
04:00 AM - 05:00 AM	57.4	63.4	56.2
05:00 AM - 06:00 AM	58.9	65.5	57.2
06:00 AM - 07:00 AM	55.9	69.8	54.8
07:00 AM - 08:00 AM	55.0	70.9	54.3
08:00 AM - 09:00 AM	55.6	70.1	54.4
09:00 AM - 10:00 AM	55.9	64.8	54.9
10:00 AM - 11:00 AM	56.6	69.7	54.6

Leq Average 24 hrs. (dB(A))	57.2		
Lmax (dB(A))		82.5	
L90 (dB(A))			55.6
Ldn (dB(A))	63.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116384
Date Received : Oct 12, 2023
Date Reported : Oct 18, 2023
Report Number: 2806742-1

Page 1 of 1

Sample Number	23116384-3
Parameter	Noise (Leq 24 hrs.)
Location	N2 : รั้วรั้วโครงการระยะที่ 1 ทางด้านทิศเหนือ
Measurement Date	Oct 07 - Oct 08, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623395

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.8	92.3	55.3
12:00 PM - 01:00 PM	57.0	67.9	55.4
01:00 PM - 02:00 PM	57.0	67.4	55.5
02:00 PM - 03:00 PM	56.8	72.3	55.0
03:00 PM - 04:00 PM	58.7	71.0	55.6
04:00 PM - 05:00 PM	64.5	78.6	54.4
05:00 PM - 06:00 PM	61.1	71.2	54.4
06:00 PM - 07:00 PM	58.8	66.6	54.7
07:00 PM - 08:00 PM	54.9	58.8	54.3
08:00 PM - 09:00 PM	55.3	60.8	54.8
09:00 PM - 10:00 PM	55.2	59.4	54.6
10:00 PM - 11:00 PM	55.6	60.2	54.6
11:00 PM - 12:00 AM	56.6	60.7	55.5
12:00 AM - 01:00 AM	56.2	59.3	55.6
01:00 AM - 02:00 AM	56.1	59.5	55.6
02:00 AM - 03:00 AM	56.0	62.1	55.5
03:00 AM - 04:00 AM	56.6	61.0	55.9
04:00 AM - 05:00 AM	57.7	62.2	56.8
05:00 AM - 06:00 AM	58.9	63.1	57.5
06:00 AM - 07:00 AM	55.8	73.0	54.5
07:00 AM - 08:00 AM	55.1	68.7	54.3
08:00 AM - 09:00 AM	55.0	68.5	54.1
09:00 AM - 10:00 AM	54.8	62.9	54.1
10:00 AM - 11:00 AM	55.9	76.9	54.6

Leq Average 24 hrs. (dB(A))	57.8		
Lmax (dB(A))		92.3	
L90 (dB(A))			54.8
Ldn (dB(A))	63.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116384
Date Received : Oct 12, 2023
Date Reported : Oct 18, 2023
Report Number: 2806743-1

Page 1 of 1

Sample Number	23116384-4
Parameter	Noise (Leq 24 hrs.)
Location	N2 : รั้วบริเวณโครงการระยะที่ 1 ทางด้านทิศเหนือ
Measurement Date	Oct 08 - Oct 09, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623395

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.9	70.0	55.4
12:00 PM - 01:00 PM	55.8	68.5	54.9
01:00 PM - 02:00 PM	55.7	67.1	55.1
02:00 PM - 03:00 PM	55.2	59.4	54.7
03:00 PM - 04:00 PM	54.8	61.0	54.2
04:00 PM - 05:00 PM	54.7	61.7	54.1
05:00 PM - 06:00 PM	62.2	66.9	55.0
06:00 PM - 07:00 PM	55.4	64.8	53.9
07:00 PM - 08:00 PM	55.0	62.4	53.7
08:00 PM - 09:00 PM	55.9	63.0	55.2
09:00 PM - 10:00 PM	56.2	63.0	55.3
10:00 PM - 11:00 PM	55.6	60.9	54.2
11:00 PM - 12:00 AM	55.3	62.1	54.0
12:00 AM - 01:00 AM	55.2	59.4	54.6
01:00 AM - 02:00 AM	55.6	60.8	54.9
02:00 AM - 03:00 AM	55.3	61.1	54.7
03:00 AM - 04:00 AM	56.2	61.7	55.4
04:00 AM - 05:00 AM	57.7	61.8	56.6
05:00 AM - 06:00 AM	58.3	63.7	55.7
06:00 AM - 07:00 AM	55.6	69.1	54.5
07:00 AM - 08:00 AM	55.9	72.0	54.7
08:00 AM - 09:00 AM	55.9	65.2	55.0
09:00 AM - 10:00 AM	55.8	69.0	54.7
10:00 AM - 11:00 AM	55.8	63.2	54.9

Leq Average 24 hrs. (dB(A))	56.5		
Lmax (dB(A))		72.0	
L90 (dB(A))			54.7
Ldn (dB(A))	62.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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6872-21/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116384
Date Received : Oct 12, 2023
Date Reported : Oct 18, 2023
Report Number: 2806744-1

Page 1 of 1

Sample Number	23116384-5
Parameter	Noise (Leq 24 hrs.)
Location	N2 : รั้วบริเวณโครงการระยะที่ 1 ทางด้านทิศเหนือ
Measurement Date	Oct 09 - Oct 10, 2023
Measurement by	Mongkon Phalathip
Sound Level meter	Serial No. 623395

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	59.5	73.3	54.8
12:00 PM - 01:00 PM	57.1	70.1	55.2
01:00 PM - 02:00 PM	58.7	69.6	55.6
02:00 PM - 03:00 PM	60.4	72.5	55.6
03:00 PM - 04:00 PM	64.7	79.8	56.4
04:00 PM - 05:00 PM	64.4	81.4	55.9
05:00 PM - 06:00 PM	62.4	74.2	56.1
06:00 PM - 07:00 PM	57.2	66.4	55.9
07:00 PM - 08:00 PM	56.3	70.6	55.6
08:00 PM - 09:00 PM	56.6	78.5	55.8
09:00 PM - 10:00 PM	56.0	67.2	54.9
10:00 PM - 11:00 PM	55.9	69.0	54.4
11:00 PM - 12:00 AM	56.1	65.9	54.9
12:00 AM - 01:00 AM	55.9	69.8	54.7
01:00 AM - 02:00 AM	55.7	62.6	54.9
02:00 AM - 03:00 AM	55.8	64.1	55.0
03:00 AM - 04:00 AM	56.4	71.0	55.5
04:00 AM - 05:00 AM	57.6	63.2	56.5
05:00 AM - 06:00 AM	58.4	65.1	55.6
06:00 AM - 07:00 AM	56.0	68.7	55.0
07:00 AM - 08:00 AM	56.1	69.1	54.7
08:00 AM - 09:00 AM	55.8	67.5	54.8
09:00 AM - 10:00 AM	55.2	64.2	53.9
10:00 AM - 11:00 AM	55.3	67.7	54.5

Leq Average 24 hrs. (dB(A))	58.7		
Lmax (dB(A))		81.4	
L90 (dB(A))			55.0
Ldn (dB(A))	63.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (9:43AM)



Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116384
Date Received : Oct 12, 2023
Date Reported : Oct 18, 2023
Report Number: 2806745-1

Page 1 of 1

Sample Number	23116384-6		
Parameter	Noise (Leq 24 hrs.)		
Location	N2 : รั้วโครงการระยะที่ 1 ทางด้านทิศเหนือ		
Measurement Date	Oct 10 - Oct 11, 2023		
Measurement by	Mongkon Phalathip		
Sound Level meter	Serial No. 623395		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	60.5	80.1	54.1
12:00 PM - 01:00 PM	63.9	77.2	54.7
01:00 PM - 02:00 PM	63.0	82.7	55.3
02:00 PM - 03:00 PM	63.0	77.4	55.6
03:00 PM - 04:00 PM	60.4	80.4	55.3
04:00 PM - 05:00 PM	56.7	69.3	55.2
05:00 PM - 06:00 PM	63.6	79.0	57.2
06:00 PM - 07:00 PM	58.1	67.4	55.8
07:00 PM - 08:00 PM	56.5	78.8	55.5
08:00 PM - 09:00 PM	56.7	76.7	55.6
09:00 PM - 10:00 PM	56.2	73.9	54.2
10:00 PM - 11:00 PM	55.8	66.7	54.0
11:00 PM - 12:00 AM	56.1	70.4	54.5
12:00 AM - 01:00 AM	55.7	64.0	54.8
01:00 AM - 02:00 AM	55.0	61.4	54.4
02:00 AM - 03:00 AM	55.8	60.3	54.7
03:00 AM - 04:00 AM	56.7	61.8	55.7
04:00 AM - 05:00 AM	58.3	63.1	57.0
05:00 AM - 06:00 AM	59.5	64.6	57.1
06:00 AM - 07:00 AM	56.3	67.7	55.3
07:00 AM - 08:00 AM	55.7	70.2	54.6
08:00 AM - 09:00 AM	55.1	72.4	54.4
09:00 AM - 10:00 AM	55.0	70.7	53.9
10:00 AM - 11:00 AM	55.6	62.9	54.6
Leq Average 24 hrs. (dB(A))	59.0		
Lmax (dB(A))		82.7	
L90 (dB(A))			54.8
Ldn (dB(A))	63.8		
Standard (dB(A))	70	115	
Reference Method : ISO1996-1 and 1996-2			
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548			
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23116384
Date Received : Oct 12, 2023
Date Reported : Oct 18, 2023
Report Number: 2806746-1

Page 1 of 1

Sample Number	23116384-7		
Parameter	Noise (Leq 24 hrs.)		
Location	N2 : รั้วโครงการระยะที่ 1 ทางด้านทิศเหนือ		
Measurement Date	Oct 11 - Oct 12, 2023		
Measurement by	Mongkon Phalathip		
Sound Level meter	Serial No. 623395		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	55.5	75.7	53.9
12:00 PM - 01:00 PM	56.1	70.5	54.3
01:00 PM - 02:00 PM	56.1	77.8	54.6
02:00 PM - 03:00 PM	56.8	78.2	55.0
03:00 PM - 04:00 PM	58.5	79.7	56.0
04:00 PM - 05:00 PM	57.4	70.6	55.7
05:00 PM - 06:00 PM	62.2	69.8	56.0
06:00 PM - 07:00 PM	58.0	66.4	56.1
07:00 PM - 08:00 PM	56.4	61.1	55.6
08:00 PM - 09:00 PM	56.3	61.8	55.5
09:00 PM - 10:00 PM	55.9	66.2	54.8
10:00 PM - 11:00 PM	56.0	66.4	54.9
11:00 PM - 12:00 AM	56.3	66.3	55.4
12:00 AM - 01:00 AM	55.8	70.2	55.0
01:00 AM - 02:00 AM	55.4	58.7	54.9
02:00 AM - 03:00 AM	55.7	61.9	55.1
03:00 AM - 04:00 AM	56.5	61.1	55.6
04:00 AM - 05:00 AM	58.2	73.4	56.9
05:00 AM - 06:00 AM	62.8	79.9	58.1
06:00 AM - 07:00 AM	57.6	71.2	56.4
07:00 AM - 08:00 AM	56.4	69.4	55.3
08:00 AM - 09:00 AM	56.3	71.0	55.4
09:00 AM - 10:00 AM	56.0	71.1	54.7
10:00 AM - 11:00 AM	55.6	65.3	54.9
Leq Average 24 hrs. (dB(A))	57.5		
Lmax (dB(A))		79.9	
L90 (dB(A))			55.3
Ldn (dB(A))	64.2		
Standard (dB(A))	70	115	
Reference Method : ISO1996-1 and 1996-2			
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548			
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ระดับเสียงในบริเวณทำงาน



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23108498
Date Received : Oct 10, 2023
Date Reported : Oct 13, 2023
Report Number: 2806631-1

Page 1 of 1

Sample Number	23108498-1		
Parameter	Noise (Leq 8 hrs.)		
Location	Gas Turbine Generator		
Measurement Date	Oct 10, 2023		
Measurement by	Norranon Tathongkham		

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:08 AM - 11:08 AM	84.2	87.6	83.7
11:08 AM - 12:08 PM	84.3	88.2	83.7
12:08 PM - 01:08 PM	85.0	89.0	84.3
01:08 PM - 02:08 PM	85.5	88.3	84.7
02:08 PM - 03:08 PM	85.3	87.8	84.7
03:08 PM - 04:08 PM	85.1	88.0	84.6
04:08 PM - 05:08 PM	85.1	87.7	84.6
05:08 PM - 06:08 PM	85.5	88.5	84.8
Leq Average 8 hrs. (dB(A))	85.0		
Lmax (dB(A))		89.0	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23138357
Date Received : Dec 14, 2023
Date Reported : Dec 19, 2023
Report Number: 2864882-1

Page 1 of 1

Sample Number	23138357-1		
Parameter	Noise (Leq 8 hrs.)		
Location	Gas Turbine Generator		
Measurement Date	Dec 13, 2023		
Measurement by	Sawai Tonpho		

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:25 AM - 11:25 AM	85.1	86.2	84.9
11:25 AM - 12:25 PM	85.0	86.9	84.6
12:25 PM - 01:25 PM	84.8	86.6	84.2
01:25 PM - 02:25 PM	84.8	86.0	84.5
02:25 PM - 03:25 PM	84.9	85.9	84.7
03:25 PM - 04:25 PM	84.9	85.9	84.7
04:25 PM - 05:25 PM	86.4	107.2	84.9
05:25 PM - 06:25 PM	85.6	86.4	85.4
Leq Average 8 hrs. (dB(A))	85.2		
Lmax (dB(A))		107.2	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23108498
Date Received : Oct 10, 2023
Date Reported : Oct 13, 2023
Report Number: 2806632-1

Page 1 of 1

Sample Number	23108498-2		
Parameter	Noise (Leq 8 hrs.)		
Location	Air Compressor		
Measurement Date	Oct 10, 2023		
Measurement by	Norranon Tathongkham		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:22 AM - 11:22 AM	82.9	87.6	82.0
11:22 AM - 12:22 PM	83.0	87.5	82.1
12:22 PM - 01:22 PM	83.0	87.5	82.0
01:22 PM - 02:22 PM	82.5	87.6	81.5
02:22 PM - 03:22 PM	82.8	87.8	81.7
03:22 PM - 04:22 PM	82.8	87.6	81.8
04:22 PM - 05:22 PM	82.9	87.5	81.9
05:22 PM - 06:22 PM	82.8	87.8	81.8
Leq Average 8 hrs. (dB(A))	82.8		
Lmax (dB(A))		87.8	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23138357
Date Received : Dec 14, 2023
Date Reported : Dec 19, 2023
Report Number: 2864883-1

Page 1 of 1

Sample Number	23138357-2		
Parameter	Noise (Leq 8 hrs.)		
Location	Air Compressor		
Measurement Date	Dec 13, 2023		
Measurement by	Sawai Tonpho		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:20 AM - 11:20 AM	80.4	87.2	79.9
11:20 AM - 12:20 PM	80.3	83.1	79.8
12:20 PM - 01:20 PM	80.3	83.2	79.9
01:20 PM - 02:20 PM	80.4	83.2	80.0
02:20 PM - 03:20 PM	80.6	83.3	80.3
03:20 PM - 04:20 PM	80.6	83.2	80.2
04:20 PM - 05:20 PM	81.5	103.4	80.2
05:20 PM - 06:20 PM	80.6	83.2	80.4
Leq Average 8 hrs. (dB(A))	80.6		
Lmax (dB(A))		103.4	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:10AM)

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23108498
Date Received : Oct 10, 2023
Date Reported : Oct 13, 2023
Report Number: 2806633-1

Page 1 of 1

Sample Number	23108498-3		
Parameter	Noise (Leq 8 hrs.)		
Location	Steam Turbine Generator		
Measurement Date	Oct 10, 2023		
Measurement by	Norranon Tathongkham		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:03 AM - 11:03 AM	81.2	83.9	81.0
11:03 AM - 12:03 PM	81.2	82.4	81.0
12:03 PM - 01:03 PM	81.0	81.9	80.9
01:03 PM - 02:03 PM	81.1	82.0	80.9
02:03 PM - 03:03 PM	81.2	82.5	81.0
03:03 PM - 04:03 PM	81.2	82.5	81.0
04:03 PM - 05:03 PM	81.3	82.3	81.1
05:03 PM - 06:03 PM	81.3	82.5	81.1
Leq Average 8 hrs. (dB(A))	81.2		
Lmax (dB(A))		83.9	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			



Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23138357
Date Received : Dec 14, 2023
Date Reported : Dec 19, 2023
Report Number: 2864884-1

Page 1 of 1

Sample Number	23138357-3		
Parameter	Noise (Leq 8 hrs.)		
Location	Steam Turbine Generator		
Measurement Date	Dec 13, 2023		
Measurement by	Sawai Tonpho		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:16 AM - 11:16 AM	80.7	82.2	80.5
11:16 AM - 12:16 PM	80.6	81.7	80.4
12:16 PM - 01:16 PM	80.6	82.0	80.4
01:16 PM - 02:16 PM	80.6	82.0	80.4
02:16 PM - 03:16 PM	80.6	81.8	80.4
03:16 PM - 04:16 PM	80.6	81.8	80.5
04:16 PM - 05:16 PM	81.3	101.9	80.5
05:16 PM - 06:16 PM	80.6	81.6	80.5
Leq Average 8 hrs. (dB(A))	80.7		
Lmax (dB(A))		101.9	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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

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S:\Reports_Air Noise.rpt (10:10AM)

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (2:59PM)

Noise Contour Map



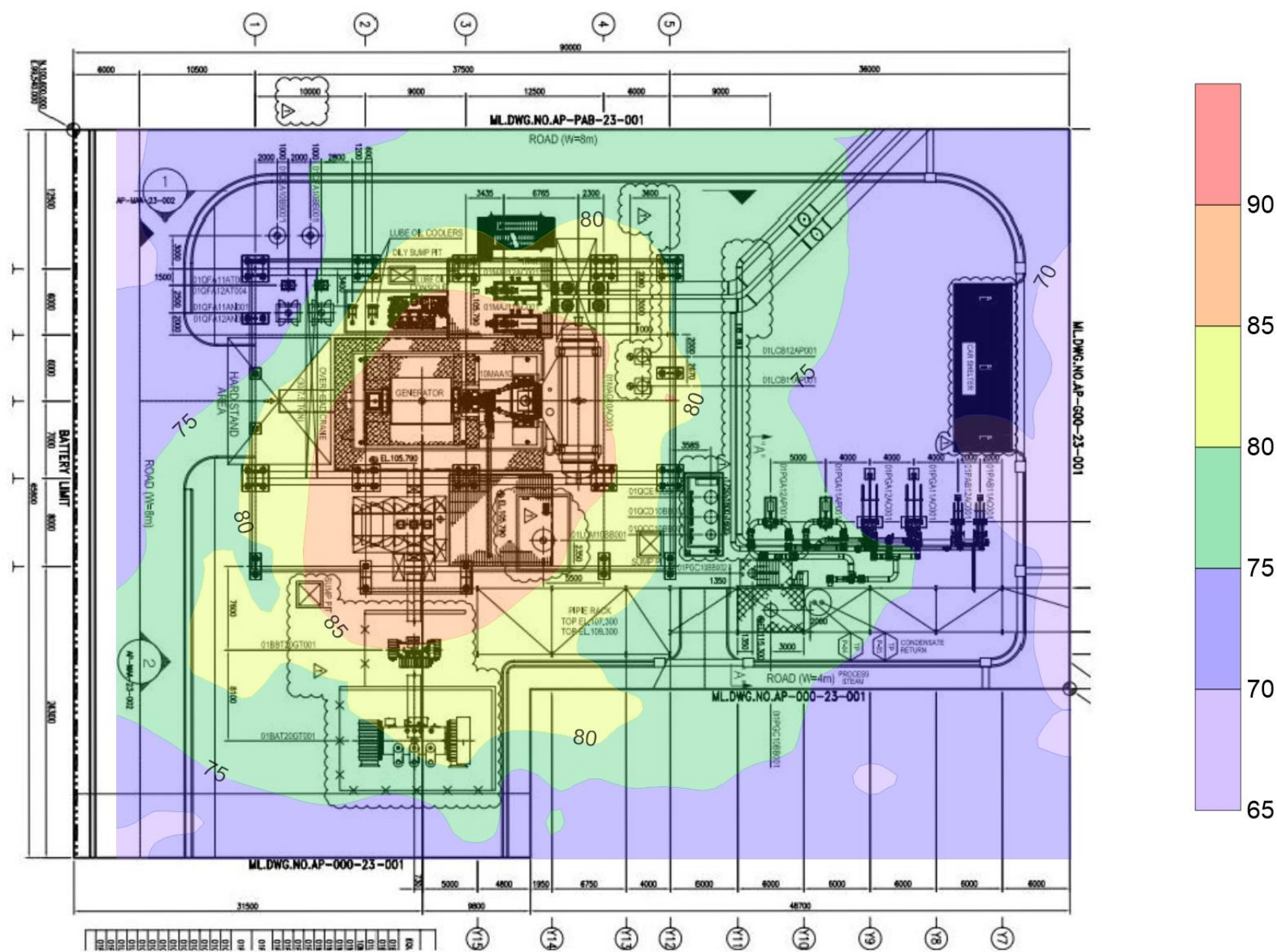
Noise Contour Map

General Electric International Operations Company Inc.

(Steam Turbine Area ชั้น 1 ตรวจวัดแบบปกติ)

Reference Number : Lot 2359155-1

Measurement Date : May 30, 2023



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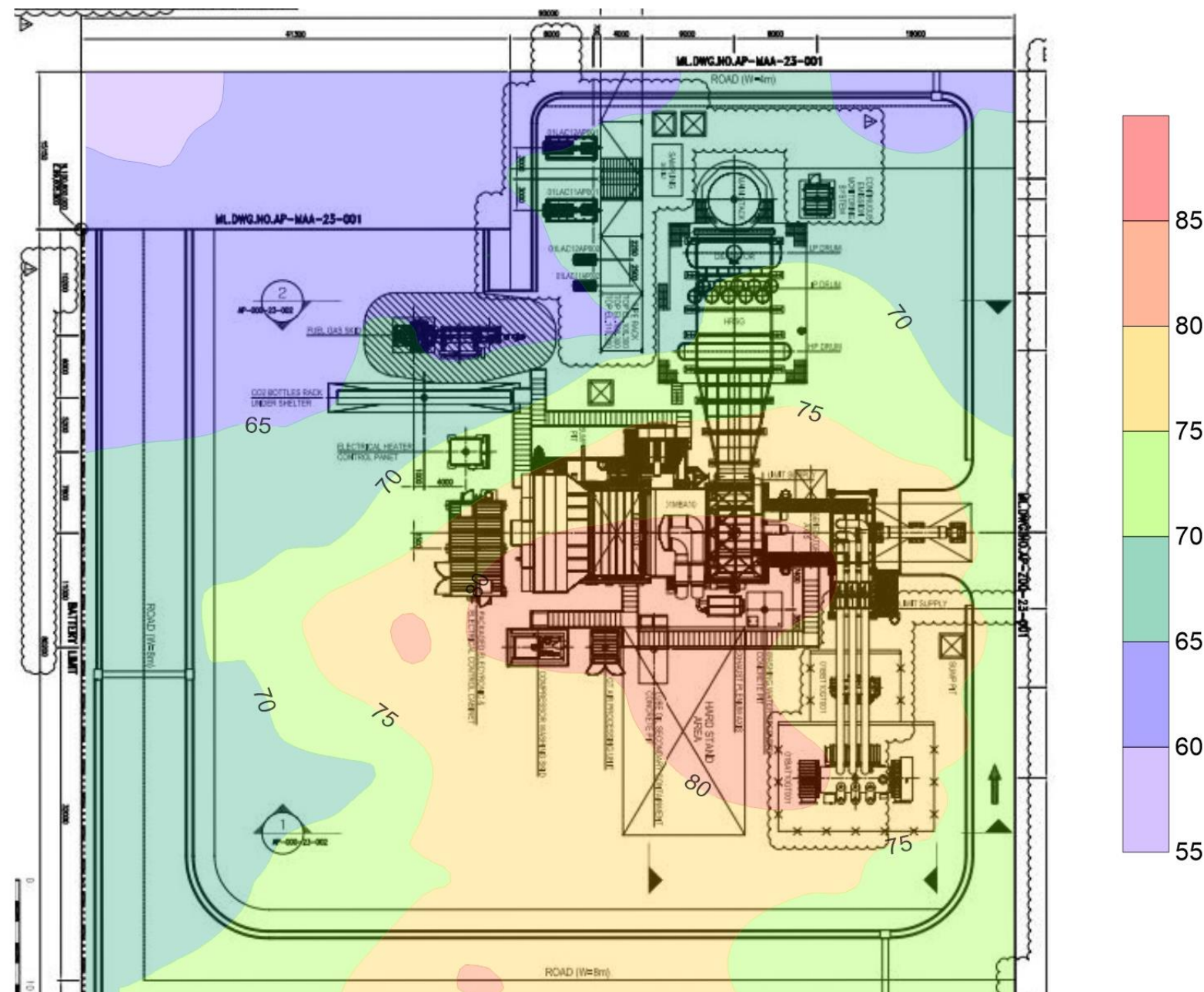
Noise Contour Map

General Electric International Operations Company Inc.

(Gas Turbine Area and HRSG Area ตรวจวัดแบบปกติ)

Reference Number : Lot 2359158-1

Measurement Date : May 30, 2023



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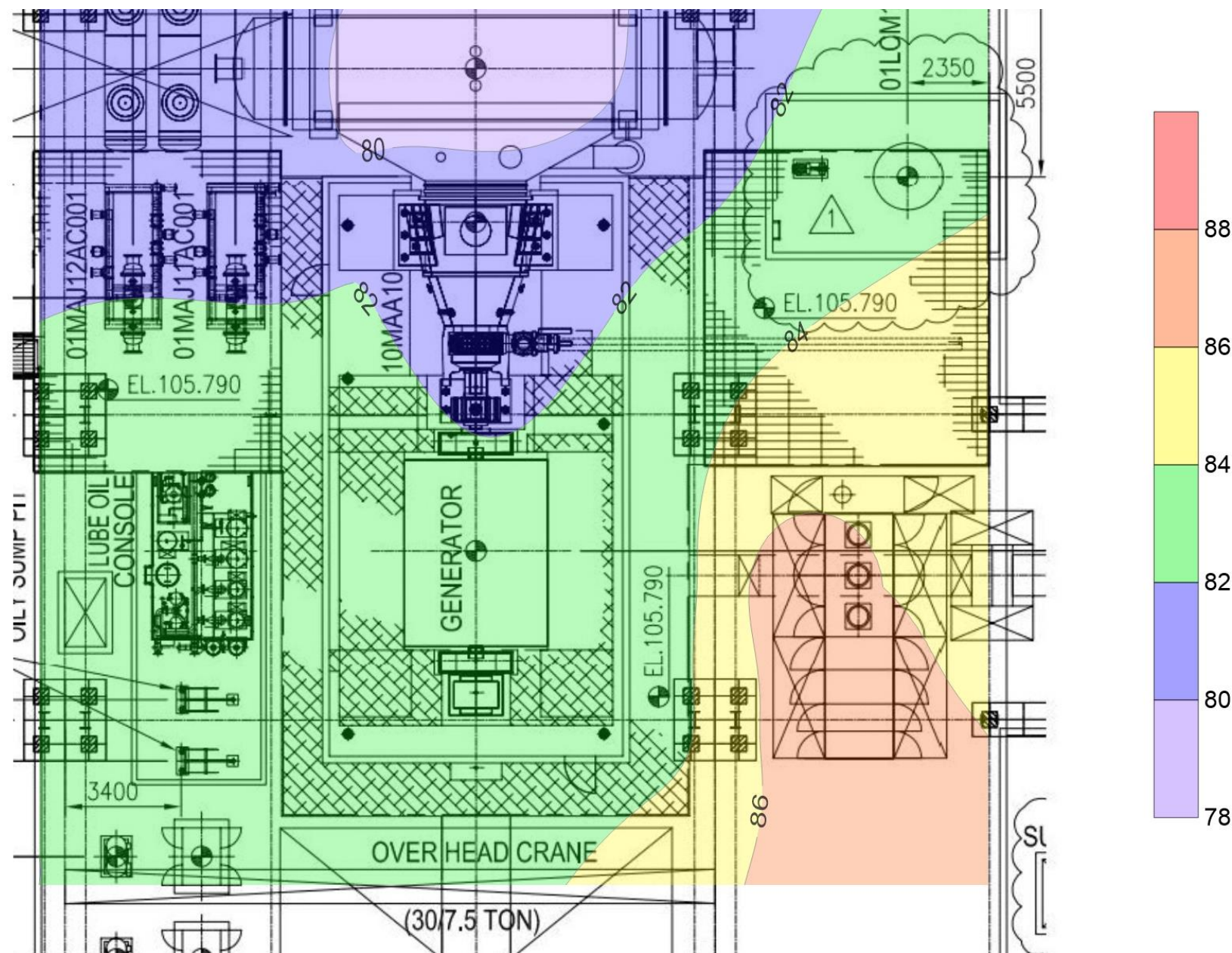
Noise Contour Map

General Electric International Operations Company Inc.

(Stream Turbine Area ชั้น 2 ตรวจวัดแบบปกติ)

Reference Number : Lot 2359159-1

Measurement Date : May 30, 2023



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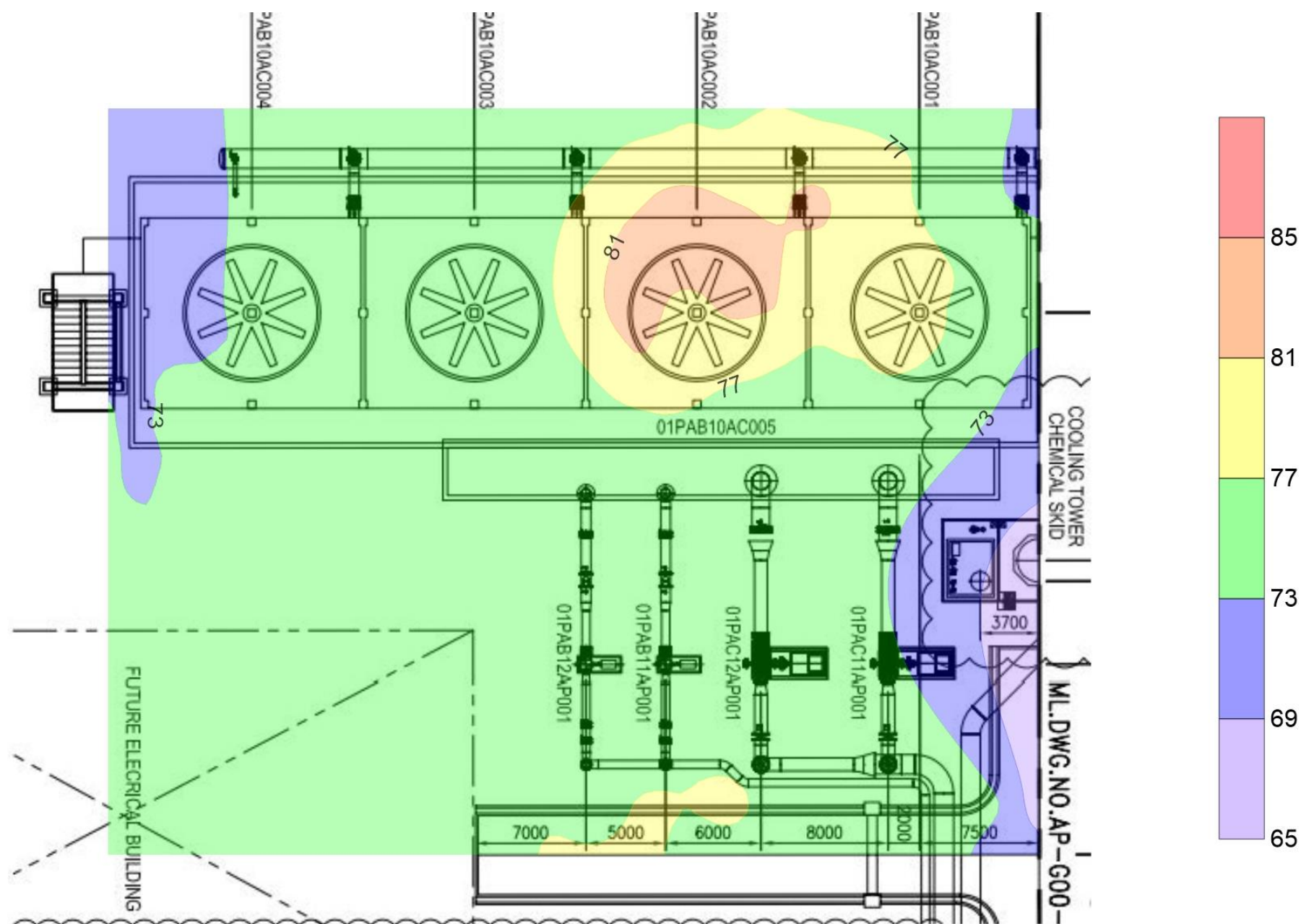
Noise Contour Map

General Electric International Operations Company Inc.

(Cooling Tower Area ตรวจวัดแบบปกติ)

Reference Number : Lot 2359160-1

Measurement Date : May 30, 2023



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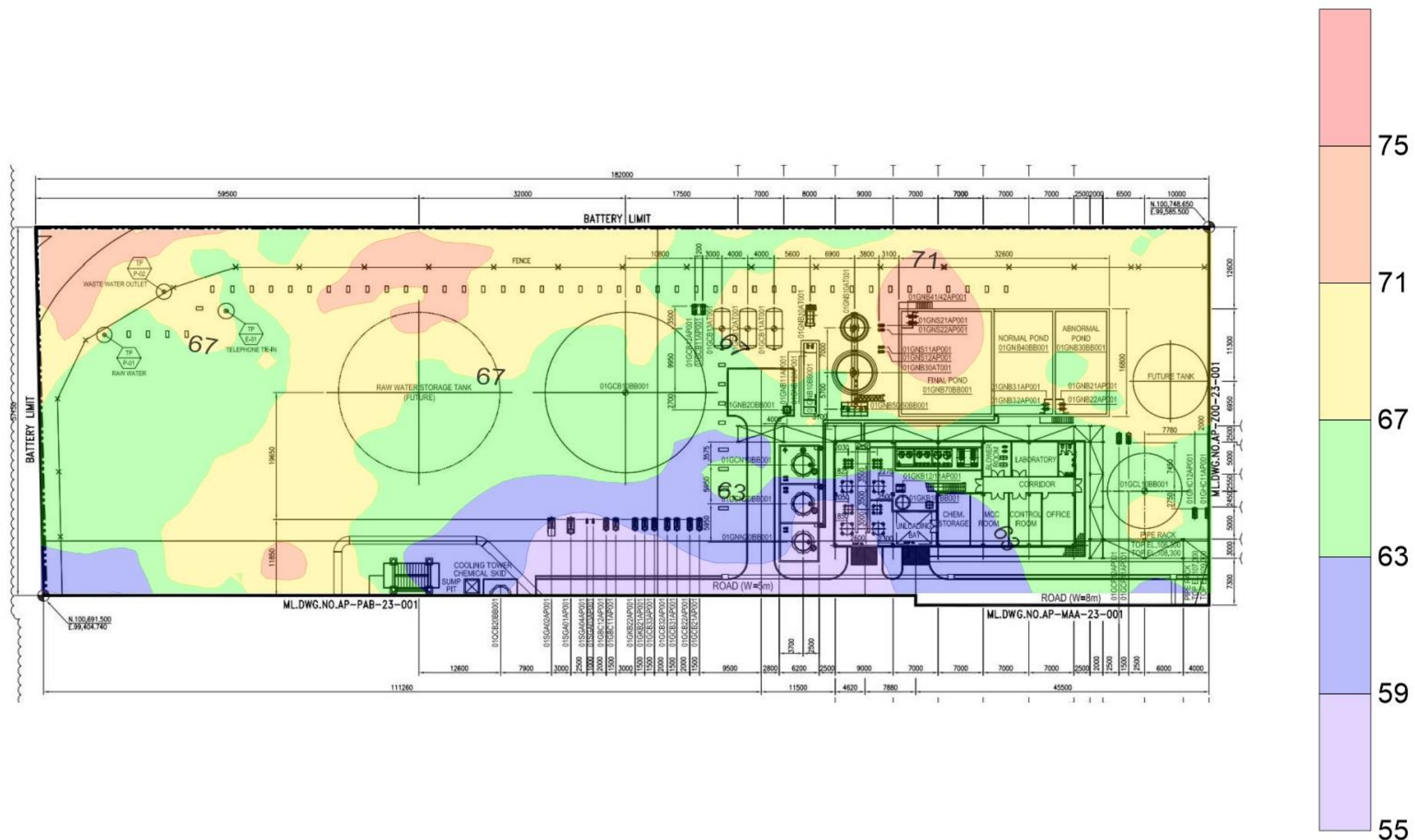
Noise Contour Map

General Electric International Operations Company Inc.

Reference Number : Lot 2359161-1

Measurement Date : May 30, 2023

(Water Treatment Plant ตรวจวัดแบบปกติ)



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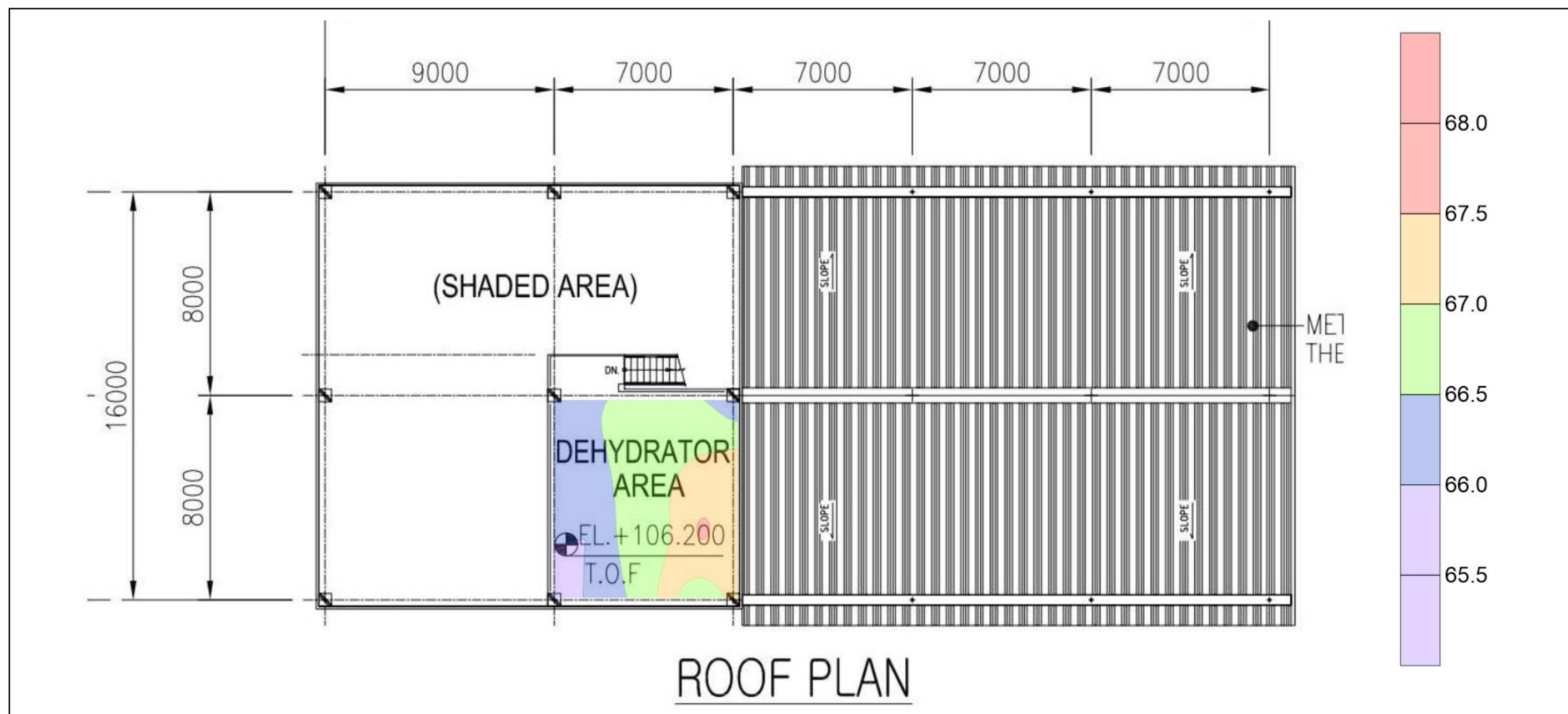
Noise Contour Map

General Electric International Operations Company Inc.

(Water Treatment Plant-2nd Floor ตรวจวัดแบบปกติ)

Reference Number : Lot 2359162-1

Measurement Date : May 30, 2023



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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O :
Project Name :
Project Location :

Lot ID: 23123567
Date Received : Nov 21, 2023
Date Reported : Nov 30, 2023
Report Number : 2814619-1 C1

Page 1 of 1

Sample Number	23123567-1
Sampled Date	Nov 21, 2023 3:40 PM
Sample Description	Ground Water
Location	GW1 : บริเวณริมถนนของสวนอุตสาหกรรมฯ ทางทิศตะวันตกเฉียงเหนือของโครงการ
Date Analysis Commenced	Nov 21, 2023
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	1385	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
pH at 25 degree C	-	-	-	6.4	6.5-9.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	856	≤1200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	123	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Water Level	m	-	-	5.10	No Standard	Water Level Meter	Bangkok

Guideline : Groundwater Quality Standards for Drinking Purposes set by Notification of Ministry of Natural Resources and Environment B.E. 2551, Maximum allowable.

Sampled By : Narunat thammasaro , Samart Khumplee

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

N. Banchookit

Narumon Banchookit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23123548
Date Received : Nov 16, 2023
Date Reported : Nov 21, 2023
Report Number : 2814607-2

Page 1 of 1

Sample Number	23123548-1
Sampled Date	Nov 16, 2023 11:10 AM
Sample Description	Groundwater
Location	GW2 : บริเวณโครงการระยะที่ 1 ทางทิศใต้
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	189	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	112	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	53	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Water Level	m	-	-	3.40	No Standard	Water Level Meter	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

(I): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างไปปนเปื้อนกับผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อน้ำที่ไม่เป็นบ่อน้ำถาวรที่ติดตั้งในดินในพื้นที่ โดยค่าพีเอชเปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อนุพัทธ์ค่าเกินค่าเฉลี่ยสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่บริโภคคือ 6.5-9.2

Sampling By : Paramet Sattayakun , Panupong Manit

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

N. Banchookit

Narumon Banchookit
Supervisor

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Analysis / Test Report

Client : General Electric International Operations Company Inc.
55/1 Moo 5, Tambon Nonglaloak, Amphoe Bankhai, Rayong Thailand 21120
P/O : 2023-1047
Project Name : EIA Monitoring
Project Location :

Lot ID: 23123548
Date Received : Nov 16, 2023
Date Reported : Nov 21, 2023
Report Number : 2814607-1

Page 1 of 1

Sample Number 23123548-1
Sampled Date Nov 16, 2023 11:10 AM
Sample Description Groundwater
Location GW2 : บริเวณโครงการระยะที่ 1 ทางทิศใต้
Date Analysis Commenced Nov 16, 2023
Condition of Sample Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
pH at 25 degree C		-	-	4.1	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

(I): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างไปเปรียบเทียบกับผลวิเคราะห์ค่าที่เลขจากจุดเก็บตัวอย่างบ่อน้ำที่ใช้ในการติดตามตรวจสอบการปนเปื้อนกับผลวิเคราะห์จากจุดเก็บตัวอย่างบ่อน้ำที่ใช้เป็นบ่ออ้างอิงบนทิศทางทางไหลของน้ำใต้ดินในพื้นที่ โดยค่าที่เลขที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์อนุโมลสูงสุดของมาตรฐานคุณภาพน้ำบาดาลที่ไทยใช้คือ 6.5-9.2

Sampling By : Paramet Sattayakun ทะเบียนเลขที่ 7-323-จ-9476 , Panupong Manit ทะเบียนเลขที่ 7-204-จ-8600

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

N. Banphit

Narumon Banphongkit
Supervisor

ทะเบียนเลขที่ 7-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ 7-323-จ-9442

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