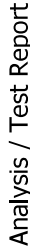


ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

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Project Location : GBL

Report Number :2813762-1

Page 1 of 1

Sample Number	Sample Description	Location	Measurement Date
23122978-1	Emission from Stationary Source	Ulgaan HRSG 11	Nov 22, 2023

Stack Description								
Ambient Temperature	30	°C	Diameter	3.00	m	Oxygen	14.27	%
Ambient Pressure	760	mmHg	Shape	Circle		Carbon dioxide	3.63	%
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	17.00	m/s
Type of Fuel	Natural Gas		Moisture	10.69	%	Flow Rate	299243	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm) at Actual O <sub>2</sub>	At 7% O <sub>2</sub>
1	11:30 AM - 11:50 AM	14.27	3.63	0.16	0.35
2	11:51 AM - 12:11 PM	14.27	3.63	0.13	0.27
3	12:12 PM - 12:32 PM	14.25	3.64	0.14	0.30
Average (ppm)		14.27	3.63	0.14	0.30
Guideline (ppm)				-	690
Result (mg/l/m <sup>3</sup> )				0.17	0.35
Emission Rate at Actual O <sub>2</sub> (g/s)					
Method					US EPA Method 10

recreation of the Ministry of Industry 2006 (B.E. 2549) published in the Royal Government Gazette, Vol. 25 Special Part 253 dated December 4, 2006 (B.E. 2549)

<sup>1/</sup> Environmental Impact Assessment Report of Gulf BL Co., Ltd

<sup>2/</sup>Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Guideline:** <sup>1/</sup> Environmental Tr

<sup>2</sup>/Notification of th

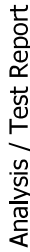
ทะเบียนเลขที่ ว-204-ค-6113

ทะเบียนเลขที่ ว-204-ค-4702

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[illegible]

Project Name : Monitoring EIA

Report Number :2813762-1

Page 1 of 1

Sample Number	23122978-1
Sample Description	Emission from Stationary Source
Location	Uljaa HRSG 11
Measurement Date	Nov 22, 2023

Stack Description								
Ambient Temperature	30	°C	Diameter	3.00	m	Oxygen	14.27	%
Ambient Pressure	760	mmHg	Shape	Circle		Carbon dioxide	3.63	%
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	17.00	m/s
Type of Fuel	Natural Gas		Moisture	10.69	%	Flow Rate	299243	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm) at Actual O <sub>2</sub>	Sulfur Dioxide (ppm) at Actual O <sub>2</sub>	Sulfur Dioxide (ppm) at 7% O <sub>2</sub>
1	11:30 AM - 11:50 AM	14.27	3.63	27.53	0.77	1.62
2	11:51 AM - 12:11 PM	14.27	3.63	27.57	0.77	1.61
3	12:12 PM - 12:32 PM	14.25	3.64	26.04	0.77	1.62
Average (ppm)		14.27	3.63	27.05	0.77	1.62
Guideline <sup>VI</sup> (ppm)				-	-	6
Guideline <sup>VII</sup> (ppm)				-	-	20
Result (mg/Nm <sup>3</sup> )				50.88	2.02	4.23
Emission Rate at Actual O <sub>2</sub> (g/s)				4.2297	0.1679	
Guideline <sup>III</sup> (g/s)				7.4	1.0	
Method				US EPA Method 7E	US EPA Method 6C	

**Guideline:** <sup>1/</sup> Environmental Tr

<sup>2</sup>/Notification of th

<sup>2/</sup>Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122979**  
Date Received : Nov 24, 2023  
Date Reported : Dec 02, 2023  
Report Number: 2813765-1

Page 1 of 2

<b>Sample Number</b>	23122979-1			
<b>Sampled Date</b>	Nov 22, 2023			
<b>Sample Description</b>	Emission from stationary source			
<b>Location</b>	ใกล้ HRSG 11			
<b>Date Analysis Commenced</b>	Nov 28, 2023			

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.3	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	17.0	m/s	
Type of Fuel	Natural Gas		Moisture	10.81	%	Flow Rate (Actual O2)	298482	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result at 7 % O <sub>2</sub> at 14.3 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	---	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	11:30 AM - 12:18 PM	mg/m3	-	0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Anuwat Mungpai

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

**Technical Management**  
Saranya Chalermthamrong  
Scientist (4)  
โทรศัพท์ 7-204-4717

**Approved by**  
Kankorn Anek  
Senior Manager  
โทรศัพท์ 7-204-6-6111

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14479-21/ EMAIL

S:\Reports\_L\Air Stack\_O2\_2GL-rpt (10:21AM)



## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122979**  
Date Received : Nov 24, 2023  
Date Reported : Dec 02, 2023  
Report Number: 2813765-1

Page 2 of 2

<b>Sample Number</b>	23122979-1			
<b>Sampled Date</b>	Nov 22, 2023			
<b>Sample Description</b>	Emission from stationary source			
<b>Location</b>	ใกล้ HRSG 11			
<b>Date Analysis Commenced</b>	Nov 28, 2023			

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.3	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	17.0	m/s	
Type of Fuel	Natural Gas		Moisture	10.81	%	Flow Rate (Actual O2)	298482	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	----------------------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	11:30 AM - 12:18 PM	g/s	-	<0.04	1.8	-	Calculated	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Anuwat Mungpai

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

**Technical Management**  
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**Approved by**  
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Senior Manager  
โทรศัพท์ 7-204-6-6111

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14479-21/ EMAIL

S:\Reports\_L\Air Stack\_O2\_2GL-rpt (10:21AM)



## Analysis / Test Report

**Client** : Gulf BL Co., Ltd.  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23122980**  
Date Received :Nov 24, 2023  
Date Reported :Dec 11, 2023  
Report Number :2813764-1

Page 1 of 1

<b>Sample Number</b>	23122980-1
<b>Sample Description</b>	Emission from Stationary Source
<b>Location</b>	ใกล้ HRSG 12
<b>Measurement Date</b>	Nov 21, 2023

Stack Description										
Ambient Temperature	30	°C		Diameter	3.00	m		Oxygen	14.25	%
Ambient Pressure	760	mmHg		Shape	Circle			Carbon dioxide	3.66	%
Type of Process	Combustion			Stack Temperature	111	°C		Gas Velocity	16.49	m/s
Type of Fuel	Natural Gas			Moisture	9.83	%		Flow Rate	293486	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm) at Actual O <sub>2</sub>	Sulfur Dioxide (ppm) at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at 7% O <sub>2</sub>
1	11:30 AM - 11:50 AM	14.30	3.63	20.39	42.92	0.52	1.09
2	11:51 AM - 12:11 PM	14.26	3.65	18.87	39.47	0.52	1.09
3	12:12 PM - 12:32 PM	14.19	3.69	18.47	38.28	0.51	1.06
Average (ppm)		14.25	3.66	19.24	40.23	0.52	1.08
Guideline <sup>1/</sup> (ppm)				60	-	-	6
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Result (mg/Nm <sup>3</sup> )				36.20	75.68	1.35	2.82
Emission Rate at Actual O <sub>2</sub> (g/s)				2.9513			0.1101
Guideline <sup>1/</sup> (g/s)				7.4			1.0
Method				US EPA Method 7E			US EPA Method 6C

**Sampled By** : Anuvat Moungpai  
**Guideline** : <sup>1/</sup> Environmental Impact Assessment Report of Gulf BL Co.,Ltd  
<sup>2/</sup>Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management**  
Wichan Choonharat  
Manager  
โทรศัพท์ ๖-204-๖-6113

**Approved by**  
Sarayuth Jitranont  
Assistant General Manager  
โทรศัพท์ ๖-204-๖-4702

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## Analysis / Test Report

**Client** : Gulf BL Co., Ltd.  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23122980**  
Date Received :Nov 24, 2023  
Date Reported :Dec 11, 2023  
Report Number :2813764-1

Page 1 of 1

<b>Sample Number</b>	23122980-1
<b>Sample Description</b>	Emission from Stationary Source
<b>Location</b>	ใกล้ HRSG 12
<b>Measurement Date</b>	Nov 21, 2023

Stack Description										
Ambient Temperature	30	°C		Diameter	3.00	m		Oxygen	14.25	%
Ambient Pressure	760	mmHg		Shape	Circle			Carbon dioxide	3.66	%
Type of Process	Combustion			Stack Temperature	111	°C		Gas Velocity	16.49	m/s
Type of Fuel	Natural Gas			Moisture	9.83	%		Flow Rate	293486	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm) at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	11:30 AM - 11:50 AM	14.30	3.63	0.11	0.24
2	11:51 AM - 12:11 PM	14.26	3.65	0.11	0.23
3	12:12 PM - 12:32 PM	14.19	3.69	0.13	0.27
Average (ppm)		14.25	3.66	0.12	0.25
Guideline (ppm)				-	690
Result (mg/Nm <sup>3</sup> )				0.13	0.28
Emission Rate at Actual O <sub>2</sub> (g/s)				0.0110	
Method				US EPA Method 10	

**Sampled By** : Anuvat Moungpai  
**Guideline** : 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)

**Technical Management**  
Wichan Choonharat  
Manager  
โทรศัพท์ ๖-204-๖-6113

**Approved by**  
Sarayuth Jitranont  
Assistant General Manager  
โทรศัพท์ ๖-204-๖-4702

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Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122983**  
Date Received : Nov 24, 2023  
Date Reported : Dec 02, 2023  
Report Number: 2813767-1

Page 1 of 2

**Sample Number** 23122983-1  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source  
**Location** ไร่สาม HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle, refrigerated

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.86	%	Flow Rate (Actual O2)	293012	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	--------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	11:30 AM - 12:18 PM	mg/m3	-	0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Anantachai Wisom

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

**Technical Management**  
Saranya Chalerthamrong  
Scientist (4)  
โทรศัพท์ 7-204-4717

**Approved by**  
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Senior Manager  
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Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122983**  
Date Received : Nov 24, 2023  
Date Reported : Dec 02, 2023  
Report Number: 2813767-1

Page 2 of 2

**Sample Number** 23122983-1  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source  
**Location** ไร่สาม HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle, refrigerated

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.86	%	Flow Rate (Actual O2)	293012	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	--------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	11:30 AM - 12:18 PM	g/s	-	<0.04	1.8	-	Calculated	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Anantachai Wisom

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

**Technical Management**  
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**Approved by**  
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Senior Manager  
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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122986**  
Date Received : Nov 24, 2023  
Date Reported : Dec 11, 2023  
Report Number : 2813771-1

Page 1 of 3

Sample Number	23122986-1
Sampled Date	Nov 22, 2023
Sample Description	Emission from Stationary Source
Location	สถานี HRSG 11
Parameter	NOx

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	22 Nov 23	10:20	10:40	25.97	28.15	56.42	59.32	2.90
2	22 Nov 23	10:41	11:01	25.92	27.83	56.40	58.55	2.15
3	22 Nov 23	11:02	11:22	25.98	27.53	56.38	57.78	1.40
4	22 Nov 23	11:23	11:43	26.06	27.52	56.13	57.75	1.62
5	22 Nov 23	11:44	12:04	26.04	27.60	56.27	57.89	1.62
6	22 Nov 23	12:05	12:25	25.01	26.91	53.99	56.45	2.46
7	22 Nov 23	12:26	12:46	24.14	25.85	51.82	53.91	2.09
8	22 Nov 23	12:47	13:07	23.52	24.87	50.55	52.05	1.51
9	22 Nov 23	13:08	13:28	23.14	25.35	49.61	53.16	3.54
10*	22 Nov 23	13:29	13:49	22.53	24.70	48.35	52.01	3.66
11*	22 Nov 23	13:50	14:10	22.70	25.26	48.61	53.20	4.59
12*	22 Nov 23	14:11	14:31	23.09	25.66	49.60	54.27	4.67
Average						54.17	56.32	2.14
Confidence Coefficient (CC)								0.55
Relative Accuracy (Compared with RM) (%)								4.79
Relative Accuracy Criteria <sup>1/</sup> (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: \* Sample with \* is a rejected data

<sup>1/</sup> Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

#### Technical Management

Wichan Choonharat  
Manager

โทรศัพท์ 2-204-6113

#### Approved by

Sarayuht Jitranont  
Assistant General Manager

โทรศัพท์ 2-204-4702

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122986**  
Date Received : Nov 24, 2023  
Date Reported : Dec 11, 2023  
Report Number : 2813771-1

Page 2 of 3

Sample Number	23122986-1
Sampled Date	Nov 22, 2023
Sample Description	Emission from Stationary Source
Location	สถานี HRSG 11
Parameter	SO2

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	22 Nov 23	10:20	10:40	1.12	0.78	2.44	1.64	-0.79
2	22 Nov 23	10:41	11:01	1.01	0.77	2.20	1.61	-0.59
3	22 Nov 23	11:02	11:22	0.97	0.80	2.11	1.67	-0.44
4*	22 Nov 23	11:23	11:43	1.05	0.78	2.26	1.63	-0.62
5*	22 Nov 23	11:44	12:04	1.01	0.76	2.19	1.60	-0.59
6	22 Nov 23	12:05	12:25	1.00	0.78	2.16	1.63	-0.52
7	22 Nov 23	12:26	12:46	0.98	0.78	2.11	1.63	-0.48
8	22 Nov 23	12:47	13:07	0.98	0.77	2.10	1.61	-0.49
9	22 Nov 23	13:08	13:28	0.92	0.76	1.96	1.59	-0.38
10	22 Nov 23	13:29	13:49	0.92	0.76	1.98	1.60	-0.39
11	22 Nov 23	13:50	14:10	0.91	0.77	1.94	1.62	-0.32
12	22 Nov 23	14:11	14:31	0.80	0.77	1.72	1.62	-0.10
Average						2.03	1.62	-0.41
Confidence Coefficient (CC)								0.11
Relative Accuracy (Compared with Emission Standard : 6 ppm) (%)								8.69
Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 6C

Remark: \* Sample with \* is a rejected data

<sup>1/</sup> Relative Accuracy Criteria of SO2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with

Emission Standard 6 ppm at 7%O2

RA Result is within Criteria

#### Technical Management

Wichan Choonharat  
Manager

โทรศัพท์ 2-204-6113

#### Approved by

Sarayuht Jitranont  
Assistant General Manager

โทรศัพท์ 2-204-4702

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122986**  
Date Received : Nov 24, 2023  
Date Reported : Dec 11, 2023  
Report Number : 2813771-1

Page 3 of 3

<b>Sample Number</b>	23122986-1
<b>Sampled Date</b>	Nov 22, 2023
<b>Sample Description</b>	Emission from Stationary Source
<b>Location</b>	ใกล้ HRSG 11
<b>Parameter</b>	O <sub>2</sub>

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1*	22 Nov 23	10:20	10:40	14.50	14.30	-0.20
2*	22 Nov 23	10:41	11:01	14.51	14.29	-0.22
3*	22 Nov 23	11:02	11:22	14.49	14.28	-0.22
4	22 Nov 23	11:23	11:43	14.45	14.28	-0.17
5	22 Nov 23	11:44	12:04	14.47	14.27	-0.19
6	22 Nov 23	12:05	12:25	14.46	14.27	-0.19
7	22 Nov 23	12:26	12:46	14.42	14.24	-0.19
8	22 Nov 23	12:47	13:07	14.43	14.26	-0.17
9	22 Nov 23	13:08	13:28	14.42	14.27	-0.15
10	22 Nov 23	13:29	13:49	14.42	14.30	-0.13
11	22 Nov 23	13:50	14:10	14.41	14.30	-0.11
12	22 Nov 23	14:11	14:31	14.43	14.33	-0.10
Average				14.43	14.28	-0.15
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.15
Relative Accuracy Criteria (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: \* Sample with \* is a rejected data

1/ Relative Accuracy Criteria of O<sub>2</sub> is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

**Sampled By :** Anuwat Mungpair

**Technical Management**

**Wichan Chomharat**  
Manager

**Approved by**

**Sarayu Jitranont**  
Assistant General Manager

โทรศัพท์ 7-204-6113

โทรศัพท์ 7-204-4702

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

Page 1 of 10

<b>Sample Number</b>	23122987-2
<b>Sampled Date</b>	Nov 22, 2023
<b>Sample Description</b>	Emission from stationary source (CEMs)
<b>Location</b>	ใกล้ HRSG 11
<b>Date Analysis Commenced</b>	Nov 28, 2023
<b>Condition of Sample</b>	Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result		Guideline (1)	Guideline (2)	Method	Testing Location
					at 7 % O <sub>2</sub>	at 14.3 % O <sub>2</sub>				
Ambient Pressure	760	mmHg	Diameter		3.00		m	Oxygen		14.3 %
Ambient Temperature	30.0	°C	Shape					Carbon Dioxide		3.8 %
Type of Process	Combustion		Stack Temperature		111		°C	Gas Velocity		16.9 m/s
Type of Fuel	Natural Gas		Moisture		10.50		%	Flow Rate (Actual O <sub>2</sub> )		29752 Nm <sup>3</sup> /hr

<b>Air Testing</b>	Total Suspended Particulate	10:30 AM - 11:18 AM	mg/m <sup>3</sup>	-	0.5	<0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5	Bangkok
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### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.

Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management**

**Orawan R.**  
Orawan Rakyong  
Scientist (3)

**Approved by**

**Kanokorn Anek**  
Senior Manager

โทรศัพท์ 7-204-6115

โทรศัพท์ 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

Page 2 of 10

**Sample Number** 23122987-2  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** 11km HRSG 11  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description				
Ambient Pressure	760	mmHg	Diameter	3.00
Ambient Temperature	30.0	°C	Shape	Circle
Type of Process	Combustion	Stack Temperature	°C	11.1
Type of Fuel	Natural Gas	Moisture	%	10.50
		Flow Rate (Actual O2)	%	297752
		Nm3/hr		

Analyte	Sampled Time	Unit	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
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<b>Air Testing</b>								
Total Suspended Particulate	10:30 AM - 11:18 AM	g/s	-	<0.04	1.8	-	Calculated	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
**Sampled By :** Anuvat Mungpai

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

**Technical Management** *Orawan R.*  
Orawan Rakyoung  
Scientist (3)  
โทรศัพท์ 7-204-6115

**Approved by** *Kanokorn Anek*  
Kanokorn Anek  
Senior Manager  
โทรศัพท์ 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

Page 3 of 10

**Sample Number** 23122987-3  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** 11km HRSG 11  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description				
Ambient Pressure	760	mmHg	Diameter	3.00
Ambient Temperature	30.0	°C	Shape	Circle
Type of Process	Combustion	Stack Temperature	°C	112
Type of Fuel	Natural Gas	Moisture	%	10.81
		Flow Rate (Actual O2)	%	298482
		Nm3/hr		

Analyte	Sampled Time	Unit	LOQ (LOR)	Result at 7 % O <sub>2</sub> at 14.3 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	---	---------------	---------------	--------	------------------

Air Testing									
Total Suspended Particulate	11:30 AM - 12:18 PM	mg/m3	-	0.5	<0.5	28	60	United States	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management** *Orawan R.*  
Orawan Rakyoung  
Scientist (3)  
โทรศัพท์ 7-204-6115

**Approved by** *Kanokorn Anek*  
Kanokorn Anek  
Senior Manager  
โทรศัพท์ 7-204-6111

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## Analysis / Test Report

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**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

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**Sample Number** 23122987-3  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** ไร่สาม HRSG 11  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.3	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	17.0	m/s	
Type of Fuel	Natural Gas		Moisture	10.81	%	Flow Rate (Actual O2)	298482	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>								
Total Suspended Particulate	11:30 AM - 12:18 PM	g/s	-	<0.04	1.8	-	Calculated	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
**Sampled By :** Anuvat Mungpai

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

**Technical Management** *Orawan R.* **Approved by** *Kanokorn Anek*  
Orawan Rakyong Scientist (3) Kanokorn Anek Senior Manager  
โทร: 02-04-6115 โทร: 02-04-6111



## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

Page 5 of 10

**Sample Number** 23122987-4  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** ไร่สาม HRSG 11  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.1	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	17.0	m/s	
Type of Fuel	Natural Gas		Moisture	10.73	%	Flow Rate (Actual O2)	299481	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O <sub>2</sub> at 14.1 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	12:25 PM - 01:13 PM	mg/m3	-	0.5	<0.5	28	60	United States Environmental	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management** *Orawan R.* **Approved by** *Kanokorn Anek*  
Orawan Rakyong Scientist (3) Kanokorn Anek Senior Manager  
โทร: 02-04-6115 โทร: 02-04-6111





## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

Page 6 of 10

**Sample Number** 23122987-4  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** ไร่สาม HRSG 11  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.1	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	17.0	m/s	
Type of Fuel	Natural Gas		Moisture	10.73	%	Flow Rate (Actual O2)	299481	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	----------------------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	12:25 PM - 01:13 PM	g/s	-	<0.04	1.8	-	Calculated	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
**Sampled By :** Anuvat Mungpai

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

**Technical Management** *Orawan R.* **Approved by** *Kanokorn Anek*  
Orawan Rakyoung Scientist (3) Kanokorn Anek Senior Manager  
โทร: 02-04-6115 โทร: 02-04-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

Page 7 of 10

**Sample Number** 23122987-5  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** ไร่สาม HRSG 11  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.2	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.6	%	
Type of Process	Combustion		Stack Temperature	110	°C	Gas Velocity	16.9	m/s	
Type of Fuel	Natural Gas		Moisture	11.10	%	Flow Rate (Actual O2)	297426	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result at 7 % O <sub>2</sub> at 14.2 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	---	---------------	---------------	--------	------------------

Air Testing											
Total Suspended Particulate		01:20 PM - 02:08 PM		mg/m3	-	0.5	<0.5	28	60	United States	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management** *Orawan R.* **Approved by** *Kanokorn Anek*  
Orawan Rakyoung Scientist (3) Kanokorn Anek Senior Manager  
โทร: 02-04-6115 โทร: 02-04-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
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**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

Page 8 of 10

**Sample Number** 23122987-5  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** ไร่สาม HRSG 11  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.2	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.6	%	
Type of Process	Combustion		Stack Temperature	110	°C	Gas Velocity	16.9	m/s	
Type of Fuel	Natural Gas		Moisture	11.10	%	Flow Rate (Actual O2)	297426	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	----------------------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	01:20 PM - 02:08 PM	g/s	-	<0.04	1.8	-	Calculated	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
**Sampled By :** Anuvat Mungpai

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

**Technical Management** *Orawan R.* **Approved by** *Kanokorn Anek*  
Orawan Rakyong Scientist (3) Kanokorn Anek Senior Manager  
โทร: 02-04-6115 โทร: 02-04-6111

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## Analysis / Test Report

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**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

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**Sample Number** 23122987-6  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** ไร่สาม HRSG 11  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.3	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	16.9	m/s	
Type of Fuel	Natural Gas		Moisture	10.75	%	Flow Rate (Actual O2)	297851	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result at 7 % O <sub>2</sub> at 14.3 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
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Air Testing											
Total Suspended Particulate		02:15 PM - 03:03 PM		mg/m3	-	0.5	<0.5	28	60	United States	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management** *Orawan R.* **Approved by** *Kanokorn Anek*  
Orawan Rakyong Scientist (3) Kanokorn Anek Senior Manager  
โทร: 02-04-6115 โทร: 02-04-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813780-1

Page 10 of 10

**Sample Number** 23122987-6  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** ใกล้เคียง HRSG 11  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.3	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	16.9	m/s	
Type of Fuel	Natural Gas		Moisture	10.75	%	Flow Rate (Actual O2)	297851	Nm3/hr	

Analyte	Sampled Time	Unit	LOD (LOR)	Result	Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	--------	---------------	---------------	---------------	--------	------------------

<b>Air Testing</b>	Total Suspended Particulate	02:15 PM - 03:03 PM	g/s	-	<0.04	1.8	-	Calculated	Bangkok
--------------------	-----------------------------	---------------------	-----	---	-------	-----	---	------------	---------

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
**Sampled By :** Anuvat Moungrai

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

**Technical Management** **Orawan R.**  
Orawan Rakyoung  
Scientist (3)  
โทรศัพท์ ๖-204-๖-6115

**Approved by** **Kanokorn Anek**  
Kanokorn Anek  
Senior Manager  
โทรศัพท์ ๖-204-๖-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received: Nov 24, 2023  
Date Reported: Dec 13, 2023  
Report Number: 2813780-2

Page 1 of 2

**Sample Number** 23122987-1  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from Stationary Source  
**Location** ใกล้เคียง HRSG 11  
**Parameter** Relative Response Audit

### Relative Response Audit Test Report

No Sample	Date	Time		CEMS Values (ng/m <sup>3</sup> @actualO <sub>2</sub> )	RM Values (ng/m <sup>3</sup> @actualO <sub>2</sub> )	Allowable Range		Criterion
		Start	Stop			Minimum	Maximum	
1	22-Nov-23	10:40	11:28	2.79	0.31	-4.21	9.79	Pass
2	22-Nov-23	11:35	12:23	3.20	0.31	-3.80	10.20	Pass
3	22-Nov-23	12:30	13:18	2.93	0.21	-4.07	9.93	Pass
4	22-Nov-23	13:25	14:13	2.86	0.32	-4.14	9.86	Pass
5	22-Nov-23	14:20	15:08	2.94	0.32	-4.06	9.94	Pass

**Remark:**  
-Relative Response Audit is refer to 40 CFR Part 60 Appendix B : Performance Specification 11 : Specifications and Test Procedures for Particulate Matter Continuous Emission Monitoring Systems at Stationary Source (PS-11)  
- Emission limit 28 mg/m<sup>3</sup> from Environmental Impact Assessment Report of Gulf BL Co.,Ltd.

**Technical Management** **Wichan Choonharat**  
Wichan Choonharat  
Manager  
โทรศัพท์ ๖-204-๖-6113

**Approved by** **Sarayuth Jitranont**  
Sarayuth Jitranont  
Assistant General Manager  
โทรศัพท์ ๖-204-๖-4702

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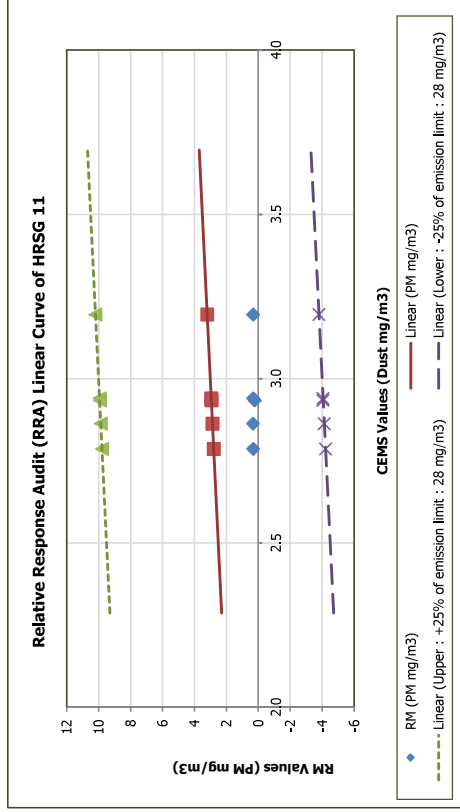
## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122987**  
Date Received: Nov 24, 2023  
Date Reported: Dec 13, 2023  
Report Number: 2813780-2

Page 2 of 2

**Sample Number** 23122987-1  
**Sampled Date** Nov 22, 2023  
**Sample Description** Emission from Stationary Source  
**Location** ฝักบัว HRSG 11  
**Parameter** Relative Response Audit



**Sampled By :** Anuvat Moungpair

### Technical Management

**Manager**  
Wichan Choonharat

### Approved by

**Assistant General Manager**  
Sarayuth Jitranont

โทรศัพท์มือถือ ๐-204-๙-6113

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122993**  
Date Received: Nov 24, 2023  
Date Reported: Dec 11, 2023  
Report Number: 2813776-1

Page 1 of 3

**Sample Number** 23122993-1  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from Stationary Source  
**Location** ฝักบัว HRSG 12  
**Parameter** NOx

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	21 Nov 23	10:40	11:00	17.88	19.68	40.34	41.54	1.20
2	21 Nov 23	11:01	11:21	18.32	19.92	41.45	42.03	0.58
3	21 Nov 23	11:22	11:42	18.63	20.36	41.92	42.87	0.95
4*	21 Nov 23	11:43	12:03	17.79	19.70	39.66	41.36	1.70
5	21 Nov 23	12:04	12:24	16.38	17.78	36.00	36.80	0.80
6*	21 Nov 23	12:25	12:45	19.88	20.53	44.60	43.09	-1.51
7	21 Nov 23	12:46	13:06	21.05	22.24	47.53	47.07	-0.45
8	21 Nov 23	13:07	13:27	17.45	19.13	39.37	40.41	1.04
9	21 Nov 23	13:28	13:48	17.32	19.05	39.24	40.27	1.02
10	21 Nov 23	13:49	14:09	17.44	19.18	39.53	40.59	1.06
11	21 Nov 23	14:10	14:30	17.64	19.25	39.92	40.76	0.84
12	21 Nov 23	14:31	14:51	17.69	19.33	40.28	41.00	0.72
<b>Average</b>		<b>Confidence Coefficient (CC)</b>		<b>Relative Accuracy (Compared with RM) (%)</b>		<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with RM)</b>		<b>0.36</b>
								<b>2.64</b>
								<b>≤ 20%</b>

Reference Method : US EPA Method 7E

Remark: \* Sample with \* is a rejected data

<sup>1/</sup> Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

### Technical Management

**Manager**  
Wichan Choonharat

### Approved by

**Assistant General Manager**  
Sarayuth Jitranont

โทรศัพท์มือถือ ๐-204-๙-6113

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## Analysis / Test Report

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122993**  
Date Received : Nov 24, 2023  
Date Reported : Dec 11, 2023  
Report Number : 2813776-1

Page 2 of 3

Sample Number	23122993-1
Sampled Date	Nov 21, 2023
Sample Description	Emission from Stationary Source
Location	สถานี HRSG 12
Parameter	SO2

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	21 Nov 23	10:40	11:00	0.75	0.51	1.69	1.08	-0.61
2*	21 Nov 23	11:01	11:21	0.78	0.51	1.76	1.08	-0.69
3	21 Nov 23	11:22	11:42	0.74	0.51	1.66	1.07	-0.59
4	21 Nov 23	11:43	12:03	0.67	0.51	1.50	1.07	-0.42
5	21 Nov 23	12:04	12:24	0.75	0.51	1.65	1.06	-0.58
6	21 Nov 23	12:25	12:45	0.70	0.50	1.57	1.06	-0.52
7	21 Nov 23	12:46	13:06	0.71	0.51	1.60	1.08	-0.52
8*	21 Nov 23	13:07	13:27	0.72	0.39	1.62	0.83	-0.79
9	21 Nov 23	13:28	13:48	0.65	0.45	1.47	0.95	-0.52
10	21 Nov 23	13:49	14:09	0.67	0.54	1.53	1.14	-0.39
11	21 Nov 23	14:10	14:30	0.67	0.52	1.52	1.10	-0.42
12	21 Nov 23	14:31	14:51	0.67	0.44	1.53	0.94	-0.59
Average						1.56	1.05	-0.51
Confidence Coefficient (CC)								
Relative Accuracy (Compared with Emission Standard : 6 ppm) (%)								
Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard)								
≤ 100%								



## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 1 of 10

**Sample Number** 23122998-2  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** อู่จันทน์ HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.76	%	Flow Rate (Actual O2)	293285	Nm3/hr	
Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location	

<b>Air Testing</b>									
Total Suspended Particulate	10:30 AM - 11:18 AM	mg/m3	-	0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management** *Orawan R.*  
Orawan Rakyoung  
Scientist (3)  
โทรศัพท์ 7-204-6115

**Approved by** *Kark-Ank.*  
Kankkorn Anek  
Senior Manager  
โทรศัพท์ 7-204-6111

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## Analysis / Test Report

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**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 2 of 10

**Sample Number** 23122998-2  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** อู่จันทน์ HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.76	%	Flow Rate (Actual O2)	293285	Nm3/hr	
Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location	

<b>Air Testing</b>									
Total Suspended Particulate	10:30 AM - 11:18 AM	g/s	-	<0.04	1.8	-	Calculated		Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
**Sampled By :** Anuwat Mungjai

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

**Technical Management** *Orawan R.*  
Orawan Rakyoung  
Scientist (3)  
โทรศัพท์ 7-204-6115

**Approved by** *Kark-Ank.*  
Kankkorn Anek  
Senior Manager  
โทรศัพท์ 7-204-6111

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## Analysis / Test Report

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**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 3 of 10

**Sample Number** 23122998-3  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** อู่จันทน์ HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.86	%	Flow Rate (Actual O2)	293012	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	--------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	11:30 AM - 12:18 PM	mg/m3	-	0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management**

**Orawan R.**  
Orawan Rakyoung  
Scientist (3)

**Approved by**

**Karkkorn Anek**  
Karkkorn Anek  
Senior Manager

โทรศัพท์ 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
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**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 4 of 10

**Sample Number** 23122998-3  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** อู่จันทน์ HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.86	%	Flow Rate (Actual O2)	293012	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	--------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	11:30 AM - 12:18 PM	g/s	-	<0.04	1.8	-	Calculated	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
**Sampled By :** Anuwat Mungjai

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

**Technical Management**

**Orawan R.**  
Orawan Rakyoung  
Scientist (3)

**Approved by**

**Karkkorn Anek**  
Karkkorn Anek  
Senior Manager

โทรศัพท์ 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 5 of 10

**Sample Number** 23122998-4  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** อู่จันทน์ HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.81	%	Flow Rate (Actual O2)	293595	Nm3/hr	
Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location	

<b>Air Testing</b>									
Total Suspended Particulate	12:30 PM - 01:18 PM	mg/m3	0.5	<0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management** *Orawan R.*  
Orawan Rakyong  
Scientist (3)  
โทรศัพท์ 7-204-6115

**Approved by** *Kark-Ank.*  
Kankkorn Anek  
Senior Manager  
โทรศัพท์ 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 6 of 10

**Sample Number** 23122998-4  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** อู่จันทน์ HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.81	%	Flow Rate (Actual O2)	293595	Nm3/hr	
Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location	

<b>Air Testing</b>									
Total Suspended Particulate	12:30 PM - 01:18 PM	g/s	-	<0.04	1.8	-	Calculated		Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
**Sampled By :** Anuwat Mungjai

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

**Technical Management** *Orawan R.*  
Orawan Rakyong  
Scientist (3)  
โทรศัพท์ 7-204-6115

**Approved by** *Kark-Ank.*  
Kankkorn Anek  
Senior Manager  
โทรศัพท์ 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 7 of 10

**Sample Number** 23122998-5  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** ไร่สาม HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	110	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.84	%	Flow Rate (Actual O2)	294302	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	--------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	01:30 PM - 02:18 PM	mg/m3	-	0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Anuwat Mungjai

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

**Technical Management** *Orawan R.*  
Orawan Rakyong  
Scientist (3)  
โทรศัพท์ 7-204-6115

**Approved by** *Kark-Ank.*  
Kankkorn Anek  
Senior Manager  
โทรศัพท์ 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 8 of 10

**Sample Number** 23122998-5  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** ไร่สาม HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.4	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	110	°C	Gas Velocity	16.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.84	%	Flow Rate (Actual O2)	294302	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	--------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	01:30 PM - 02:18 PM	g/s	-	<0.04	1.8	-	Calculated	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Anuwat Mungjai

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

**Technical Management** *Orawan R.*  
Orawan Rakyong  
Scientist (3)  
โทรศัพท์ 7-204-6115

**Approved by** *Kark-Ank.*  
Kankkorn Anek  
Senior Manager  
โทรศัพท์ 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 9 of 10

**Sample Number** 23122998-6  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** อู่จันทน์ HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.3	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	16.6	m/s	
Type of Fuel	Natural Gas		Moisture	9.87	%	Flow Rate (Actual O2)	294682	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	--------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	02:30 PM - 03:18 PM	mg/m3	-	0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

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

**Technical Management** *Orawan R.* **Approved by** *Kanokorn Anek*

Orawan Rakyong  
Scientist (3)  
หน้างาน 7-204-6115  
Kanokorn Anek  
Senior Manager  
หน้างาน 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received : Nov 24, 2023  
Date Reported : Dec 07, 2023  
Report Number: 2813782-1

Page 10 of 10

**Sample Number** 23122998-6  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from stationary source (CEMs)  
**Location** อู่จันทน์ HRSG 12  
**Date Analysis Commenced** Nov 28, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description									
Ambient Pressure	760	mmHg	Diameter	3.00	m	Oxygen	14.3	%	
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	111	°C	Gas Velocity	16.6	m/s	
Type of Fuel	Natural Gas		Moisture	9.87	%	Flow Rate (Actual O2)	294682	Nm3/hr	

Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----------	--------	---------------	---------------	--------	------------------

<b>Air Testing</b>								
Total Suspended Particulate	02:30 PM - 03:18 PM	g/s	-	<0.04	1.8	-	Calculated	Bangkok

**Guideline :**  
Guideline (1) Environmental Impact Assessment Report of Gulf BL Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
**Sampled By :** Anuwat Mungjai

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

**Technical Management** *Orawan R.* **Approved by** *Kanokorn Anek*

Orawan Rakyong  
Scientist (3)  
หน้างาน 7-204-6115  
Kanokorn Anek  
Senior Manager  
หน้างาน 7-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received: Nov 24, 2023  
Date Reported: Dec 13, 2023  
Report Number: 2813782-2

Page 1 of 2

**Sample Number** 23122998-1  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from Stationary Source  
**Location** ไร่กล้วย HRSG 12  
**Parameter** Relative Response Audit

### Relative Response Audit Test Report

No Sample	Date	Time		CEMS Values (mg/m <sup>3</sup> @actualO <sub>2</sub> )	RM Values (mg/m <sup>3</sup> @actualO <sub>2</sub> )	Allowable Range		Criterion
		Start	Stop			Minimum	Maximum	
1	21-Nov-23	10:30	11:18	2.49	0.42	-4.51	9.49	Pass
2	21-Nov-23	11:30	12:18	1.53	0.21	-5.47	8.53	Pass
3	21-Nov-23	12:30	13:18	1.04	0.31	-5.96	8.04	Pass
4	21-Nov-23	13:30	14:18	2.68	0.21	-4.32	9.68	Pass
5	21-Nov-23	14:30	15:18	2.40	0.31	-4.60	9.40	Pass

Remark: -Relative Response Audit is refer to 40 CFR Part 60 Appendix B : Performance Specification 11 : Specifications and Test Procedures for

Particulate Matter Continuous Emission Monitoring Systems at Stationary Source (PS-11)

- Emission Limit 28 mg/m<sup>3</sup> from Environmental Impact Assessment Report of Gulf BL Co.,Ltd.

**Technical Management** *Wichan Choonharat* **Manager**  
**Approved by** *Sarayu Jitranont* **Assistant General Manager**  
YU-204-P-6113 YU-204-P-4702

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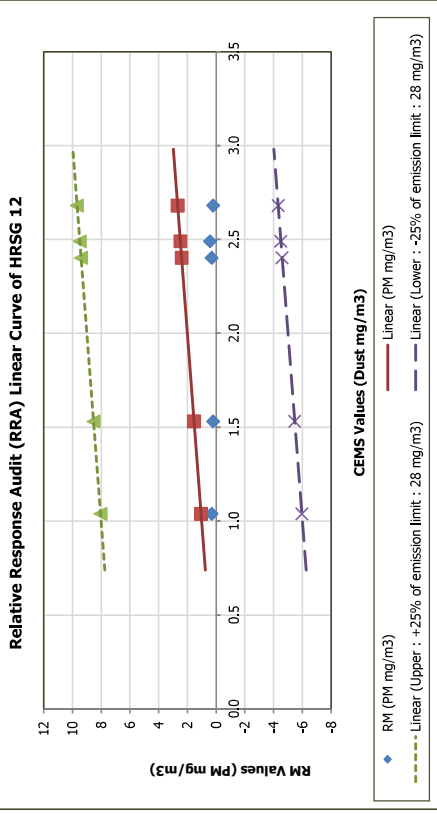
## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23122998**  
Date Received: Nov 24, 2023  
Date Reported: Dec 13, 2023  
Report Number: 2813782-2

Page 2 of 2

**Sample Number** 23122998-1  
**Sampled Date** Nov 21, 2023  
**Sample Description** Emission from Stationary Source  
**Location** ไร่กล้วย HRSG 12  
**Parameter** Relative Response Audit



**Sampled By :** Anuwat Moungpair

**Technical Management** *Wichan Choonharat* **Manager**  
**Approved by** *Sarayu Jitranont* **Assistant General Manager**  
YU-204-P-6113 YU-204-P-4702

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## Analysis / Test Report

**Lot ID: 23124508**

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

**P/O :** GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Description		Air Quality	
Location	Location	พ.ศ.๒๕๖๓	พ.ศ.๒๕๖๓
Parameter	Parameter	Nitrogen dioxide (ppm)	Nitrogen dioxide (ppm)
Measurement Date	Measurement Date	Nov 20, 2023 - Nov 27, 2023	Nov 20, 2023 - Nov 27, 2023
Measurement by	Measurement by	Thanarat Anake	Thanarat Anake
Time		23124508-1	23124508-2
11:00 AM - 12:00 PM	11:00 AM - 12:00 PM	0.013	0.014
12:00 PM - 01:00 PM	12:00 PM - 01:00 PM	0.006	0.017
01:00 PM - 02:00 PM	01:00 PM - 02:00 PM	0.011	0.014
02:00 PM - 03:00 PM	02:00 PM - 03:00 PM	0.009	0.010
03:00 PM - 04:00 PM	03:00 PM - 04:00 PM	0.009	0.008
04:00 PM - 05:00 PM	04:00 PM - 05:00 PM	0.008	0.010
05:00 PM - 06:00 PM	05:00 PM - 06:00 PM	0.010	0.009
06:00 PM - 07:00 PM	06:00 PM - 07:00 PM	0.012	0.010
07:00 PM - 08:00 PM	07:00 PM - 08:00 PM	0.022	0.012
08:00 PM - 09:00 PM	08:00 PM - 09:00 PM	0.027	0.015
09:00 PM - 10:00 PM	09:00 PM - 10:00 PM	0.028	0.016
10:00 PM - 11:00 PM	10:00 PM - 11:00 PM	0.026	0.018
11:00 PM - 12:00 AM	11:00 PM - 12:00 AM	0.027	0.016
12:00 AM - 01:00 AM	12:00 AM - 01:00 AM	0.025	0.018
01:00 AM - 02:00 AM	01:00 AM - 02:00 AM	0.020	0.017
02:00 AM - 03:00 AM	02:00 AM - 03:00 AM	0.016	0.015
03:00 AM - 04:00 AM	03:00 AM - 04:00 AM	0.014	0.016
04:00 AM - 05:00 AM	04:00 AM - 05:00 AM	0.017	0.020
05:00 AM - 06:00 AM	05:00 AM - 06:00 AM	0.016	0.018
06:00 AM - 07:00 AM	06:00 AM - 07:00 AM	0.016	0.015
07:00 AM - 08:00 AM	07:00 AM - 08:00 AM	0.027	0.022
08:00 AM - 09:00 AM	08:00 AM - 09:00 AM	0.025	0.024
09:00 AM - 10:00 AM	09:00 AM - 10:00 AM	0.021	0.024
10:00 AM - 11:00 AM	10:00 AM - 11:00 AM	0.016	0.023
Average	Average	0.018	0.016
1hr - Maximum	1hr - Maximum	0.028	0.024
Standard 1hr - Average	Standard 1hr - Average	0.170	0.170
Standard	Standard	0.170	0.170
Reference Method : US EPA/Method Part 50 App. F (Chemiluminescence)		Notification of the National Environment Board No. 33, 2009 (B.E. 2552).	

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**Approved by**

Savanya C.

Saranya Chalerthamrong  
Scientist (4)

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124508**  
Date Received : Nov 29, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2854389-1C8

Page 1 of 1

Sample Description		Air Quality														
Location	Parameter	พื้งที่ 3 ตำบลบ้านนา														
Measurement Date	Measurement by	Nitrogen dioxide (ppm)														
		Nov 20, 2023 – Nov 27, 2023														
		Thananot Anake														
	Time	23124508-15	23124508-16	23124508-17	23124508-18	23124508-19	23124508-20	23124508-21								
	01:00 PM - 02:00 PM	0.006	0.017	0.016	0.009	0.008	0.006	0.009	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009
	02:00 PM - 03:00 PM	0.006	0.015	0.013	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.010	0.010	0.010
	03:00 PM - 04:00 PM	0.001	0.014	0.012	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.010	0.010	0.010
	04:00 PM - 05:00 PM	0.011	0.012	0.012	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.010	0.010	0.009
	05:00 PM - 06:00 PM	0.014	0.012	0.014	0.010	0.010	0.008	0.011	0.008	0.008	0.008	0.011	0.010	0.012	0.013	0.013
	06:00 PM - 07:00 PM	0.015	0.014	0.019	0.010	0.010	0.008	0.010	0.008	0.008	0.012	0.011	0.014	0.014	0.014	0.014
	07:00 PM - 08:00 PM	0.015	0.016	0.017	0.016	0.016	0.010	0.010	0.010	0.010	0.011	0.011	0.014	0.014	0.014	0.014
	08:00 PM - 09:00 PM	0.020	0.017	0.018	0.021	0.013	0.012	0.012	0.012	0.015	0.020	0.020	0.023	0.023	0.021	0.021
	09:00 PM - 10:00 PM	0.022	0.018	0.020	0.019	0.015	0.009	0.009	0.009	0.015	0.020	0.013	0.016	0.016	0.016	0.016
	10:00 PM - 11:00 PM	0.024	0.016	0.029	0.018	0.016	0.015	0.019	0.019	0.016	0.015	0.015	0.019	0.019	0.019	0.019
	11:00 PM - 12:00 AM	0.022	0.012	0.024	0.022	0.022	0.020	0.020	0.020	0.015	0.020	0.020	0.023	0.023	0.023	0.023
	12:00 AM - 01:00 AM	0.020	0.019	0.023	0.021	0.020	0.013	0.013	0.013	0.020	0.020	0.013	0.016	0.016	0.016	0.016
	01:00 AM - 02:00 AM	0.024	0.019	0.017	0.022	0.024	0.013	0.013	0.013	0.024	0.024	0.013	0.010	0.010	0.010	0.010
	02:00 AM - 03:00 AM	0.020	0.017	0.014	0.018	0.018	0.014	0.014	0.014	0.019	0.019	0.014	0.014	0.014	0.014	0.014
	03:00 AM - 04:00 AM	0.016	0.014	0.014	0.012	0.012	0.012	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.014	0.014
	04:00 AM - 05:00 AM	0.016	0.014	0.012	0.011	0.011	0.011	0.011	0.011	0.013	0.013	0.011	0.011	0.013	0.013	0.013
	05:00 AM - 06:00 AM	0.016	0.014	0.014	0.011	0.011	0.010	0.011	0.011	0.019	0.019	0.010	0.010	0.009	0.009	0.009
	06:00 AM - 07:00 AM	0.014	0.015	0.012	0.011	0.011	0.011	0.011	0.011	0.016	0.016	0.011	0.011	0.009	0.009	0.009
	07:00 AM - 08:00 AM	0.016	0.015	0.011	0.013	0.013	0.011	0.011	0.011	0.016	0.016	0.011	0.011	0.010	0.010	0.010
	08:00 AM - 09:00 AM	0.018	0.015	0.014	0.012	0.012	0.012	0.012	0.012	0.016	0.016	0.012	0.012	0.012	0.012	0.012
	09:00 AM - 10:00 AM	0.018	0.019	0.018	0.012	0.012	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.016	0.016	0.016
	10:00 AM - 11:00 AM	0.015	0.021	0.017	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.011	0.011	0.012	0.012	0.012
	11:00 AM - 12:00 PM	0.014	0.020	0.016	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007
	12:00 PM - 01:00 PM	0.014	0.018	0.013	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.006	0.006	0.006
	Average	0.016	0.016	0.016	0.013	0.013	0.011	0.011	0.011	0.013	0.013	0.011	0.011	0.013	0.013	0.013
	1hr - Maximum	0.024	0.021	0.029	0.022	0.022	0.024	0.024	0.024	0.024	0.024	0.020	0.020	0.025	0.025	0.025
	Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
Standard Reference Method	: Notification of the National Environment Board No. 33, 2009 (B.E. 2552). : US EPA Method Part 50 App. F (Chemiluminescence)															

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 the written permission of ALS. We strongly recommend that this report is not reproduced except in full.

Approved by

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Saranya Chalermtamrong  
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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124508**  
Date Received : Nov 29, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2854390-1C8

Page 1 of 1

Sample Description		Air Quality															
Location		หมู่ที่ 2 ตำบลนาหว้า															
Parameter		Nitrogen dioxide (ppm)															
Measurement Date		Nov 20, 2023 - Nov 27, 2023															
Measurement by		Thananet Anake															
	Time	Nov 20, 2023	Nov 21, 2023	Nov 22, 2023	Nov 23, 2023	Nov 24, 2023	Nov 25, 2023	Nov 26, 2023	Nov 27, 2023	Nov 28, 2023	Nov 29, 2023	Nov 30, 2023	Dec 1, 2023	Dec 2, 2023	Dec 3, 2023	Dec 4, 2023	Dec 5, 2023
	10:00 AM - 11:00 AM	0.004	0.006	0.009	0.010	0.004	0.006	0.004	0.006	0.004	0.006	0.004	0.006	0.004	0.006	0.004	0.004
	11:00 AM - 12:00 PM	0.001	0.006	0.006	0.003	0.004	0.006	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
	12:00 PM - 01:00 PM	0.009	0.012	0.009	0.003	0.004	0.003	0.004	0.003	0.004	0.003	0.004	0.003	0.004	0.003	0.004	0.005
	01:00 PM - 02:00 PM	0.006	0.007	0.004	0.002	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004
	02:00 PM - 03:00 PM	0.005	0.003	0.003	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003
	03:00 PM - 04:00 PM	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003
	04:00 PM - 05:00 PM	0.004	0.004	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004
	05:00 PM - 06:00 PM	0.004	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.013
	06:00 PM - 07:00 PM	0.011	0.008	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.014
	07:00 PM - 08:00 PM	0.024	0.010	0.012	0.012	0.019	0.012	0.019	0.012	0.019	0.012	0.019	0.012	0.019	0.012	0.016	0.016
	08:00 PM - 09:00 PM	0.027	0.015	0.019	0.016	0.015	0.016	0.015	0.015	0.015	0.011	0.015	0.011	0.015	0.011	0.023	0.023
	09:00 PM - 10:00 PM	0.022	0.017	0.019	0.024	0.018	0.024	0.018	0.018	0.018	0.019	0.026	0.019	0.018	0.026	0.019	0.026
	10:00 PM - 11:00 PM	0.025	0.017	0.014	0.022	0.014	0.022	0.014	0.014	0.014	0.018	0.022	0.018	0.018	0.022	0.018	0.018
	11:00 PM - 12:00 AM	0.018	0.014	0.011	0.023	0.011	0.023	0.011	0.011	0.011	0.015	0.023	0.015	0.015	0.015	0.015	0.008
	12:00 AM - 01:00 AM	0.014	0.016	0.008	0.016	0.008	0.016	0.008	0.008	0.008	0.010	0.016	0.008	0.008	0.010	0.008	0.005
	01:00 AM - 02:00 AM	0.018	0.013	0.006	0.010	0.006	0.010	0.006	0.006	0.006	0.008	0.010	0.008	0.008	0.006	0.008	0.006
	02:00 AM - 03:00 AM	0.008	0.013	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.010	0.008	0.010	0.010	0.010	0.011	0.011
	03:00 AM - 04:00 AM	0.006	0.020	0.011	0.009	0.011	0.009	0.013	0.009	0.013	0.009	0.013	0.009	0.009	0.012	0.012	0.012
	04:00 AM - 05:00 AM	0.009	0.021	0.013	0.009	0.013	0.009	0.013	0.009	0.013	0.009	0.013	0.009	0.006	0.008	0.008	0.006
	05:00 AM - 06:00 AM	0.009	0.013	0.011	0.011	0.011	0.011	0.012	0.011	0.012	0.006	0.012	0.006	0.006	0.006	0.011	0.011
	06:00 AM - 07:00 AM	0.013	0.012	0.013	0.010	0.014	0.010	0.014	0.010	0.014	0.010	0.014	0.010	0.011	0.011	0.011	0.014
	07:00 AM - 08:00 AM	0.017	0.013	0.020	<0.001	0.012	<0.001	0.012	0.010	0.012	0.010	0.012	0.010	0.014	0.014	0.014	0.014
	08:00 AM - 09:00 AM	0.017	0.008	0.014	0.008	0.014	0.008	0.014	0.008	0.014	0.008	0.014	0.008	0.012	0.012	0.008	0.008
	09:00 AM - 10:00 AM	0.008	0.005	0.013	0.007	0.008	0.007	0.008	0.007	0.008	0.007	0.008	0.007	0.007	0.007	0.008	0.008
	Average	0.011	0.011	0.010	0.009	0.011	0.009	0.011	0.010	0.011	0.010	0.011	0.010	0.010	0.010	0.009	0.009
	1hr - Maximum	0.027	0.021	0.020	0.024	0.022	0.024	0.022	0.024	0.022	0.024	0.022	0.024	0.019	0.026	0.026	0.026
	Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
Standard Reference	: Notification of the National Environmental Board No. 33, 2009 (B.E. 2552). Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)																



## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-421070543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

Page 2 of 28

<b>Sample Number</b>	23124607-2
<b>Sample Date</b>	Nov 21, 2023
<b>Sample Description</b>	Air Quality
<b>Location</b>	พ.ส.ต.บ้านท่า
<b>Date Analysis Commenced</b>	Nov 30, 2023
<b>Condition of Sample</b>	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
<b>Barometric Pressure</b>	758 mmHg
<b>Atmospheric Temperature</b>	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	24/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.048	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM <sub>2.5</sub> *	24/11/23 - 22/11/23	ug/m <sup>3</sup>	-	5.0	27.3	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	24/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.072	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

**Guideline :** NEB : Notification of the National Environmental Board., 2022 (B.E.2565)  
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004  
**Sampled By :** Thianarat Anake

Remark :

- LOD : Limit of Detection
- $\mu_{LOQ}$  : 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.

Orawan R.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. We warrant that the results were obtained in accordance with the methods approved by the laboratory. ALS Laboratory Group (Thailand) strongly recommends that

**Approved by**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-421070543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

Page 2 of 28

<b>Sample Number</b>	23124607-2
<b>Sample Date</b>	Nov 21, 2023
<b>Sample Description</b>	Air Quality
<b>Location</b>	พ.ส.ต.บ้านท่า
<b>Date Analysis Commenced</b>	Nov 30, 2023
<b>Condition of Sample</b>	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
<b>Barometric Pressure</b>	758 mmHg
<b>Atmospheric Temperature</b>	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	24/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.048	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM <sub>2.5</sub> *	24/11/23 - 22/11/23	ug/m <sup>3</sup>	-	5.0	27.3	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	24/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.072	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

**Guideline :** NEB : Notification of the National Environmental Board., 2022 (B.E.2565)  
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004  
**Sampled By :** Thianarat Anake

Remark :

- LOD : Limit of Detection
- $\mu_{LOQ}$  : 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.

Orawan R.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. We warrant that the results were obtained in accordance with the methods approved by the laboratory. ALS Laboratory Group (Thailand) strongly recommends that

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## Analysis / Test Report

TESTING  
No.0009

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

Page 3 of 28

Sample Number	23124607-3
Sampled Date	Nov 22, 2023
Sample Description	Air Quality
Location	พ.ต.จ.ร.น.ร.ร.ร.
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	22/11/23 - 23/11/23	mg/m <sup>3</sup>	-	0.005	0.054	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	22/11/23 - 23/11/23	ug/m <sup>3</sup>	-	5.0	21.3	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	22/11/23 - 23/11/23	mg/m <sup>3</sup>	-	0.005	0.081	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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

Sampled By : Thananat Anake

### Remark :

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

*Orawan R.*

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## Analysis / Test Report

TESTING  
No.0009

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

Page 4 of 28

Sample Number	23124607-4
Sampled Date	Nov 23, 2023
Sample Description	Air Quality
Location	พ.ต.จ.ร.น.ร.ร.
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	23/11/23 - 24/11/23	mg/m <sup>3</sup>	-	0.005	0.042	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	23/11/23 - 24/11/23	ug/m <sup>3</sup>	-	5.0	17.9	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	23/11/23 - 24/11/23	mg/m <sup>3</sup>	-	0.005	0.062	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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

Sampled By : Thananat Anake

### 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.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS and the report is issued by ALS. The report is not reproduced except in full.

Approved by

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-421070543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

Page 6 of 28

<b>Sample Number</b>	23124607-6
<b>Sample Date</b>	Nov 25, 2023
<b>Sample Description</b>	Air Quality
<b>Location</b>	พ.ศ.๒๕๖๓
<b>Date Analysis Commenced</b>	Nov 30, 2023
<b>Condition of Sample</b>	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
<b>Barometric Pressure</b>	758 mmHg
<b>Atmospheric Temperature</b>	33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	25/11/23 - 26/11/23	mg/m <sup>3</sup>	-	0.005	0.037	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM <sub>2.5</sub> *	25/11/23 - 26/11/23	ug/m <sup>3</sup>	-	5.0	15.4	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	25/11/23 - 26/11/23	mg/m <sup>3</sup>	-	0.005	0.070	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

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**Sampled By :** Thianarat Anake

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**Approved by**

*Orawan R.*

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2816849-1C8

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**Sample Number** 23124607-7  
**Sampled Date** Nov 26, 2023  
**Sample Description** Air Quality  
**Location** ๗๗.๘๘.๖๖๖๖๖๖  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
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<b>Air Testing</b>								
Particulate matter as PM <sub>10</sub>	26/11/23 - 27/11/23	mg/m <sup>3</sup>	-	0.005	0.037	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok
Particulate Matter as PM <sub>2.5</sub> *	26/11/23 - 27/11/23	ug/m <sup>3</sup>	-	5.0	10.7	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB Bangkok
Total Suspended Particulate	26/11/23 - 27/11/23	mg/m <sup>3</sup>	-	0.005	0.058	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok

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**Sampled By :** Thananatt Anake

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*Orawan R.*

Approved by

Orawan Rakyoung  
Scientist (3)

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## Analysis / Test Report

TESTING  
No.0009

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**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2816849-1C8

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**Sample Number** 23124607-8  
**Sampled Date** Nov 20, 2023  
**Sample Description** Air Quality  
**Location** ๗๗.๘๘.๖๖๖๖๖๖  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
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<b>Air Testing</b>								
Particulate matter as PM <sub>10</sub>	20/11/23 - 21/11/23	mg/m <sup>3</sup>	-	0.005	0.039	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok
Particulate Matter as PM <sub>2.5</sub> *	20/11/23 - 21/11/23	ug/m <sup>3</sup>	-	5.0	24.3	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB Bangkok
Total Suspended Particulate	20/11/23 - 21/11/23	mg/m <sup>3</sup>	-	0.005	0.068	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok

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**Sampled By :** Thananatt Anake

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*Orawan R.*

Approved by

Orawan Rakyoung  
Scientist (3)

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**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2816849-1C8

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**Sample Number** 23124607-9  
**Sampled Date** Nov 21, 2023  
**Sample Description** Air Quality  
**Location** โรงสีน้ำตาลโพธิ์สามต้น  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	21/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.053	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	21/11/23 - 22/11/23	ug/m <sup>3</sup>	-	5.0	29.4	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	21/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.107	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

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**Sampled By :** Thananatt Anake

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*Orawan R.*

Approved by

Orawan Rakyoung  
Scientist (3)

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**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2816849-1C8

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**Sample Number** 23124607-10  
**Sampled Date** Nov 22, 2023  
**Sample Description** Air Quality  
**Location** โรงสีน้ำตาลโพธิ์สามต้น  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	22/11/23 - 23/11/23	mg/m <sup>3</sup>	-	0.005	0.039	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	22/11/23 - 23/11/23	ug/m <sup>3</sup>	-	5.0	26.0	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	22/11/23 - 23/11/23	mg/m <sup>3</sup>	-	0.005	0.065	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

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**Sampled By :** Thananatt Anake

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*Orawan R.*

Approved by

Orawan Rakyoung  
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## Analysis / Test Report

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P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

TESTING  
No.0009

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

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Sample Number	23124607-11
Sampled Date	Nov 23, 2023
Sample Description	Air Quality
Location	โรงเรียนเจ้าฟ้าฯฯ
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	23/11/23 - 24/11/23	mg/m <sup>3</sup>	-	0.005	0.042	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	23/11/23 - 24/11/23	ug/m <sup>3</sup>	-	5.0	18.8	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	23/11/23 - 24/11/23	mg/m <sup>3</sup>	-	0.005	0.086	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

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Sampled By : Thananatt Anake

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P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

TESTING  
No.0009

Lot ID: 23124607

Date Received : Nov 29, 2023

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Report Number : 2816849-1C8

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Sample Number	23124607-12
Sampled Date	Nov 24, 2023
Sample Description	Air Quality
Location	โรงเรียนเจ้าฟ้าฯฯ
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	33.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	24/11/23 - 25/11/23	mg/m <sup>3</sup>	-	0.005	0.028	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	24/11/23 - 25/11/23	ug/m <sup>3</sup>	-	5.0	15.0	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	24/11/23 - 25/11/23	mg/m <sup>3</sup>	-	0.005	0.062	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

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Orawan R.

Approved by

Orawan Rakyoung  
Scientist (3)



## Analysis / Test Report

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**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
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**Sample Number** 23124607-13  
**Sampled Date** Nov 25, 2023  
**Sample Description** Air Quality  
**Location** โรงสีน้ำตาลโพธิ์สามต้น  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 33.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	25/11/23 - 26/11/23	mg/m <sup>3</sup>	-	0.005	0.036	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	25/11/23 - 26/11/23	ug/m <sup>3</sup>	-	5.0	19.3	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	25/11/23 - 26/11/23	mg/m <sup>3</sup>	-	0.005	0.077	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

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**Sampled By :** Thananatt Anake

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*Orawan R.*

Approved by

Orawan Rakyong  
Scientist (3)

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**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
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**Sample Number** 23124607-14  
**Sampled Date** Nov 26, 2023  
**Sample Description** Air Quality  
**Location** โรงสีน้ำตาลโพธิ์สามต้น  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	26/11/23 - 27/11/23	mg/m <sup>3</sup>	-	0.005	0.028	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	26/11/23 - 27/11/23	ug/m <sup>3</sup>	-	5.0	17.9	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	26/11/23 - 27/11/23	mg/m <sup>3</sup>	-	0.005	0.064	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

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**Sampled By :** Thananatt Anake

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*Orawan R.*

Approved by

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

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P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

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No.0009

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No.0009

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

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Sample Number	23124607-15
Sampled Date	Nov 20, 2023
Sample Description	Air Quality
Location	พื้นที่ 3 ตำบลบ้านเลน
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Sample Number	23124607-16
Sampled Date	Nov 21, 2023
Sample Description	Air Quality
Location	พื้นที่ 3 ตำบลบ้านเลน
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	20/11/23 - 21/11/23	mg/m <sup>3</sup>	-	0.005	0.047	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	20/11/23 - 21/11/23	ug/m <sup>3</sup>	-	5.0	31.6	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	20/11/23 - 21/11/23	mg/m <sup>3</sup>	-	0.005	0.083	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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

Sampled By : Thananatt Anake

Remark :

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

*Orawan R.*

Approved by

Orawan Rakyoung  
Scientist (3)

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Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

## Analysis / Test Report

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

TESTING  
No.0009

## Analysis / Test Report

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

Page 16 of 28

Sample Number	23124607-16
Sampled Date	Nov 21, 2023
Sample Description	Air Quality
Location	พื้นที่ 3 ตำบลบ้านเลน
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	21/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.044	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	21/11/23 - 22/11/23	ug/m <sup>3</sup>	-	5.0	27.3	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	21/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.077	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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

Sampled By : Thananatt Anake

Remark :

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Approved by

*Orawan R.*

Orawan Rakyoung  
Scientist (3)

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

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No.0009

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Sample Number	23124607-17
Sampled Date	Nov 22, 2023
Sample Description	Air Quality
Location	พื้นที่ 3 ตำบลบ้านแลง
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	22/11/23 - 23/11/23	mg/m <sup>3</sup>	-	0.005	0.048	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	22/11/23 - 23/11/23	ug/m <sup>3</sup>	-	5.0	32.4	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	22/11/23 - 23/11/23	mg/m <sup>3</sup>	-	0.005	0.075	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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Sampled By : Thananatt Anake

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

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No.0009

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Sample Number	23124607-18
Sampled Date	Nov 23, 2023
Sample Description	Air Quality
Location	พื้นที่ 3 ตำบลบ้านแลง
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	23/11/23 - 24/11/23	mg/m <sup>3</sup>	-	0.005	0.033	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	23/11/23 - 24/11/23	ug/m <sup>3</sup>	-	5.0	23.0	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	23/11/23 - 24/11/23	mg/m <sup>3</sup>	-	0.005	0.061	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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

Sampled By : Thananatt Anake

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Orawan R.

Approved by

Orawan Rakyong  
Scientist (3)



## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

TESTING  
No.0009

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Sample Number	23124607-19
Sampled Date	Nov 24, 2023
Sample Description	Air Quality
Location	พื้นที่ 3 ตำบลบ้านเลน
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	33.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
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Air Testing									
Particulate matter as PM <sub>10</sub>	24/11/23 - 25/11/23	mg/m <sup>3</sup>	-	0.005	0.030	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Particulate Matter as PM <sub>2.5</sub> *	24/11/23 - 25/11/23	ug/m <sup>3</sup>	-	5.0	20.6	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
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Total Suspended Particulate	24/11/23 - 25/11/23	mg/m <sup>3</sup>	-	0.005	0.060	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
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### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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Sampled By : Thananant Anake

### Remark :

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Orawan R.

Approved by

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

TESTING  
No.0009

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Sample Number	23124607-20
Sampled Date	Nov 25, 2023
Sample Description	Air Quality
Location	พื้นที่ 3 ตำบลบ้านเลน
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	33.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
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Air Testing									
Particulate matter as PM <sub>10</sub>	25/11/23 - 26/11/23	mg/m <sup>3</sup>	-	0.005	0.048	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Particulate Matter as PM <sub>2.5</sub> *	25/11/23 - 26/11/23	ug/m <sup>3</sup>	-	5.0	21.0	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
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Total Suspended Particulate	25/11/23 - 26/11/23	mg/m <sup>3</sup>	-	0.005	0.067	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
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### Guideline :

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Sampled By : Thananant Anake

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Orawan R.

Approved by

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2816849-1C8

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**Sample Number** 23124607-21  
**Sampled Date** Nov 26, 2023  
**Sample Description** Air Quality  
**Location** หมู่ที่ 3 ตำบลบ้านเลน  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
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**Air Testing**  
Particulate matter as PM 10 26/11/23 - 27/11/23 mg/m3 - 0.005 0.026 0.12 In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Particulate Matter as PM 2.5 \* 26/11/23 - 27/11/23 ug/m3 - 5.0 23.5 37.5 US EPA 40 CFR Part 50 NEB Bangkok

Total Suspended Particulate 26/11/23 - 27/11/23 mg/m3 - 0.005 0.060 0.33 In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)

**Guideline :**  
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NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004  
**Sampled By :** Thananatt Anake

**Remark :**  
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## Analysis / Test Report

TESTING  
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**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2816849-1C8

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**Sample Number** 23124607-22  
**Sampled Date** Nov 20, 2023  
**Sample Description** Air Quality  
**Location** หมู่ที่ 2 ตำบลบ้านเลน  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
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**Air Testing**  
Particulate matter as PM 10 20/11/23 - 21/11/23 mg/m3 - 0.005 0.061 0.12 In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)

Particulate Matter as PM 2.5 \* 20/11/23 - 21/11/23 ug/m3 - 5.0 24.8 37.5 US EPA 40 CFR Part 50 NEB Bangkok

Total Suspended Particulate 20/11/23 - 21/11/23 mg/m3 - 0.005 0.085 0.33 In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)

**Guideline :**  
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NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004  
**Sampled By :** Thananatt Anake

**Remark :**  
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Orawan R.

Approved by

Orawan Rakyong  
Scientist (3)



## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2816849-1C8

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**Sample Number** 23124607-23  
**Sampled Date** Nov 21, 2023  
**Sample Description** Air Quality  
**Location** หมู่ที่ 2 ตำบลบางวัว  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
---------	-------------------	------	-----	-----------	--------	-----------------	--------	-----------	------------------

<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	21/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.040	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	21/11/23 - 22/11/23	ug/m <sup>3</sup>	-	5.0	25.6	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	21/11/23 - 22/11/23	mg/m <sup>3</sup>	-	0.005	0.079	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

**Guideline :**  
NEB : Notification of the National Environmental Board., 2022 (B.E.2565)  
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**Sampled By :** Thananatt Anake

**Remark :**  
- LOD : Limit of Detection  
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*Orawan R.*

Approved by

Orawan Rakyoung  
Scientist (3)

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## Analysis / Test Report

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**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124607**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2816849-1C8

Page 24 of 28

**Sample Number** 23124607-24  
**Sampled Date** Nov 22, 2023  
**Sample Description** Air Quality  
**Location** หมู่ที่ 2 ตำบลบางวัว  
**Date Analysis Commenced** Nov 30, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 758 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
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<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	22/11/23 - 23/11/23	mg/m <sup>3</sup>	-	0.005	0.045	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	22/11/23 - 23/11/23	ug/m <sup>3</sup>	-	5.0	21.3	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	22/11/23 - 23/11/23	mg/m <sup>3</sup>	-	0.005	0.082	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

**Guideline :**  
NEB : Notification of the National Environmental Board., 2022 (B.E.2565)  
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004  
**Sampled By :** Thananatt Anake

**Remark :**  
- LOD : Limit of Detection  
- "x" : 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.

*Orawan R.*

Approved by

Orawan Rakyoung  
Scientist (3)

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

TESTING  
No.0009

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Sample Number	23124607-25
Sampled Date	Nov 23, 2023
Sample Description	Air Quality
Location	พื้นที่ 2 ตำบลบางบัวทอง
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	23/11/23 - 24/11/23	mg/m <sup>3</sup>	-	0.005	0.032	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	23/11/23 - 24/11/23	ug/m <sup>3</sup>	-	5.0	26.0	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	23/11/23 - 24/11/23	mg/m <sup>3</sup>	-	0.005	0.069	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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

Sampled By : Thananatt Anake

### Remark :

- LOD : Limit of Detection
- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

TESTING  
No.0009

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Sample Number	23124607-26
Sampled Date	Nov 24, 2023
Sample Description	Air Quality
Location	พื้นที่ 2 ตำบลบางบัวทอง
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	33.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	24/11/23 - 25/11/23	mg/m <sup>3</sup>	-	0.005	0.027	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	24/11/23 - 25/11/23	ug/m <sup>3</sup>	-	5.0	19.3	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	24/11/23 - 25/11/23	mg/m <sup>3</sup>	-	0.005	0.065	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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

Sampled By : Thananatt Anake

### Remark :

- LOD : Limit of Detection
- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

TESTING  
No.0009

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Sample Number	23124607-27
Sampled Date	Nov 25, 2023
Sample Description	Air Quality
Location	พื้นที่ 2 ตำบลบางบัว
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	33.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	25/11/23 - 26/11/23	mg/m <sup>3</sup>	-	0.005	0.026	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	25/11/23 - 26/11/23	ug/m <sup>3</sup>	-	5.0	15.8	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	25/11/23 - 26/11/23	mg/m <sup>3</sup>	-	0.005	0.046	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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

Sampled By : Thananatt Anake

### Remark :

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

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P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124607

Date Received : Nov 29, 2023

Date Reported : Dec 08, 2023

Report Number : 2816849-1C8

TESTING  
No.0009

Page 28 of 28

Sample Number	23124607-28
Sampled Date	Nov 26, 2023
Sample Description	Air Quality
Location	พื้นที่ 2 ตำบลบางบัว
Date Analysis Commenced	Nov 30, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM <sub>10</sub>	26/11/23 - 27/11/23	mg/m <sup>3</sup>	-	0.005	0.026	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM <sub>2.5</sub> *	26/11/23 - 27/11/23	ug/m <sup>3</sup>	-	5.0	19.6	37.5	US EPA 40 CFR Part 50 (Include sampling)	NEB	Bangkok
Total Suspended Particulate	26/11/23 - 27/11/23	mg/m <sup>3</sup>	-	0.005	0.065	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

### Guideline :

NEB : Notification of the National Environmental Board., 2022 (B.E.2565)

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

Sampled By : Thananatt Anake

### Remark :

- LOD : Limit of Detection
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Orawan R.

Approved by

Orawan Rakyoung  
Scientist (3)



## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700383

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124613

Date Received : Nov 29, 2023

Date Reported : Dec 14, 2023

Report Number : 2816859-1C8

Page 1 of 1

Sample Description	Air Quality	
Location	โรงเรียนเจ้าฟ้าจุฬาภรณ	
Parameter	Sulfur Dioxide (ppm)	
Measurement Date	Nov 20, 2023 - Nov 27, 2023	
Measurement by	Thananatt Anake	

Time	23124613-1	23124613-2	23124613-3	23124613-4	23124613-5	23124613-6	23124613-7
	Nov 20, 2023	Nov 21, 2023	Nov 22, 2023	Nov 23, 2023	Nov 24, 2023	Nov 25, 2023	Nov 26, 2023
11:00 AM - 12:00 PM	0.002	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	0.002	0.001	0.001	0.001	0.001	0.001
09:00 PM - 10:00 PM	0.001	0.002	0.001	0.001	0.001	<0.001	0.001
10:00 PM - 11:00 PM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
11:00 PM - 12:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
12:00 AM - 01:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
01:00 AM - 02:00 AM	0.002	0.001	0.001	0.001	0.001	<0.001	0.001
02:00 AM - 03:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
03:00 AM - 04:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
04:00 AM - 05:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
05:00 AM - 06:00 AM	0.002	0.001	0.001	<0.001	0.001	<0.001	0.001
06:00 AM - 07:00 AM	0.002	0.001	0.001	<0.001	0.001	<0.001	0.001
07:00 AM - 08:00 AM	0.002	0.001	0.001	0.001	0.001	<0.001	0.001
08:00 AM - 09:00 AM	0.002	0.001	0.001	<0.001	0.001	0.001	0.001
09:00 AM - 10:00 AM	0.002	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
Average	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1hr - Maximum	0.002	0.002	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 : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124613

Date Received : Nov 29, 2023

Date Reported : Dec 14, 2023

Report Number : 2854391-1C8

Page 1 of 1

Sample Description	Air Quality	
Location	โรงเรียนเจ้าฟ้าจุฬาภรณ	
Parameter	Sulfur Dioxide (ppm)	
Measurement Date	Nov 20, 2023 - Nov 27, 2023	
Measurement by	Thananatt Anake	

Time	23124613-8	23124613-9	23124613-10	23124613-11	23124613-12	23124613-13	23124613-14
	Nov 20, 2023	Nov 21, 2023	Nov 22, 2023	Nov 23, 2023	Nov 24, 2023	Nov 25, 2023	Nov 26, 2023
12:00 PM - 01:00 PM	0.001	0.002	0.001	0.002	0.002	0.002	0.001
01:00 PM - 02:00 PM	<0.001	<0.001	0.001	0.001	0.001	0.002	0.002
02:00 PM - 03:00 PM	0.001	0.001	0.001	0.001	0.001	0.002	0.002
03:00 PM - 04:00 PM	0.001	0.001	0.001	0.001	0.001	0.002	0.001
04:00 PM - 05:00 PM	0.001	0.001	0.001	0.001	0.001	0.002	0.001
05:00 PM - 06:00 PM	0.001	0.001	0.001	0.001	0.001	0.002	0.001
06:00 PM - 07:00 PM	0.001	0.001	0.001	0.001	0.001	0.002	0.001
07:00 PM - 08:00 PM	0.001	0.001	0.001	0.001	0.001	0.002	0.001
08:00 PM - 09:00 PM	0.001	0.001	0.001	0.001	<0.001	0.002	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	0.002	0.001
11:00 PM - 12:00 AM	0.001	0.001	0.002	0.001	0.001	0.002	0.001
12:00 AM - 01:00 AM	0.001	0.001	0.001	0.001	0.001	0.002	0.001
01:00 AM - 02:00 AM	0.001	0.001	0.001	0.001	0.002	0.001	0.001
02:00 AM - 03:00 AM	0.001	0.001	0.002	0.001	0.002	0.001	0.001
03:00 AM - 04:00 AM	0.001	0.001	0.001	0.002	0.001	0.001	0.001
04:00 AM - 05:00 AM	0.001	0.001	0.002	0.002	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	0.002	0.001	0.001	0.001	0.001	0.001	0.002
10:00 AM - 11:00 AM	0.002	0.001	0.002	0.001	0.002	0.001	0.002
11:00 AM - 12:00 PM	0.002	0.001	0.001	0.002	0.001	0.001	0.001
Average	0.001	0.001	0.001	0.001	0.001	0.002	0.001
1hr - Maximum	0.002	0.002	0.002	0.002	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						

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124613**  
Date Received : Nov 29, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2854392-1C8

Page 1 of 1

Sample Description Location Parameter Measurement Date Measurement by		Air Quality พื้ที่ 3 สวนนกนาแลน Sulfur Dioxide (ppm) Nov 20, 2023 - Nov 27, 2023 Thananat Anake																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		23124613-15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Nov 20, 2023	Nov 21, 2023	Nov 22, 2023	Nov 23, 2023	Nov 24, 2023	Nov 25, 2023	Nov 26, 2023	Nov 27, 2023	Nov 28, 2023	Nov 29, 2023	Nov 30, 2023	Nov 01, 2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		Time	01:00 PM - 02:00 PM	02:00 PM - 03:00 PM	03:00 PM - 04:00 PM	04:00 PM - 05:00 PM	05:00 PM - 06:00 PM	06:00 PM - 07:00 PM	07:00 PM - 08:00 PM	08:00 PM - 09:00 PM	09:00 PM - 10:00 PM	10:00 PM - 11:00 PM	11:00 PM - 12:00 AM	12:00 AM - 01:00 AM	01:00 AM - 02:00 AM	02:00 AM - 03:00 AM	03:00 AM - 04:00 AM	04:00 AM - 05:00 AM	05:00 AM - 06:00 AM	06:00 AM - 07:00 AM	07:00 AM - 08:00 AM	08:00 AM - 09:00 AM	09:00 AM - 10:00 AM	10:00 AM - 11:00 AM	11:00 AM - 12:00 PM	12:00 PM - 01:00 PM	Average	1hr - Maximum	Standard 1hr - Average	Standard 24 hrs - Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

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Life Sciences

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124613**  
Date Received : Nov 29, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2854393-1C8

Page 1 of 1

Sample Description		Air Quality	
Location	พื้ที่ 2 สวนนกนาแลน		
Parameter	Sulfur Dioxide (ppm)		
Measurement Date	Nov 20, 2023 - Nov 27, 2023		
Measurement by	Thananat Anake		
23124613-22			
Time	Nov 20, 2023	Nov 21, 2023	Nov 22, 2023
10:00 AM - 11:00 AM	0.001	<0.001	<0.001
11:00 AM - 12:00 PM	0.001	<0.001	<0.001
12:00 PM - 01:00 PM	0.001	<0.001	<0.001
01:00 PM - 02:00 PM	0.002	<0.001	0.006
02:00 PM - 03:00 PM	<0.001	<0.001	0.001
03:00 PM - 04:00 PM	<0.001	<0.001	<0.001
04:00 PM - 05:00 PM	<0.001	<0.001	<0.001
05:00 PM - 06:00 PM	<0.001	<0.001	<0.001
06:00 PM - 07:00 PM	<0.001	<0.001	<0.001
07:00 PM - 08:00 PM	<0.001	<0.001	<0.001
08:00 PM - 09:00 PM	<0.001	<0.001	<0.001
09:00 PM - 10:00 PM	<0.001	<0.001	<0.001
10:00 PM - 11:00 PM	<0.001	<0.001	<0.001
11:00 PM - 12:00 AM	<0.001	<0.001	<0.001
12:00 AM - 01:00 AM	<0.001	<0.001	<0.001
01:00 AM - 02:00 AM	<0.001	<0.001	<0.001
02:00 AM - 03:00 AM	<0.001	<0.001	<0.001
03:00 AM - 04:00 AM	<0.001	<0.001	<0.001
04:00 AM - 05:00 AM	<0.001	<0.001	<0.001
05:00 AM - 06:00 AM	<0.001	<0.001	<0.001
06:00 AM - 07:00 AM	<0.001	<0.001	<0.001
07:00 AM - 08:00 AM	<0.001	<0.001	<0.001
08:00 AM - 09:00 AM	<0.001	<0.001	<0.001
09:00 AM - 10:00 AM	<0.001	<0.001	<0.001
Average	<0.001	<0.001	<0.001
1hr - Maximum	0.002	<0.001	0.006
Standard 1hr - Average	0.3	0.3	0.3
Standard 24 hrs - Average	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 :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124615**  
Date Received :Nov 29, 2023  
Date Reported :Dec 06, 2023  
Report Number :2853879-1 C8

Page 1 of 1

**Sample Number** 23124615-1 to 7  
**Parameter** Temperature  
**Location** รพ.เลมโนงา (GPS 47P 0673095, 1578457)  
**Sampling Date** Nov 20 - Nov 27, 2023  
**Sampling by** Thananat Anake

Time	Temperature (°C)													
	Nov 20 - Nov 21, 2023	Nov 21 - Nov 22, 2023	Nov 22 - Nov 23, 2023	Nov 23 - Nov 24, 2023	Nov 24 - Nov 25, 2023	Nov 25 - Nov 26, 2023	Nov 26 - Nov 27, 2023							
11:00 AM - 12:00 PM	29.4	30.7	31.5	31.7	31.2	30.6	30.1							
12:00 PM - 01:00 PM	30.2	31.0	32.3	32.7	32.3	31.4	31.4							
01:00 PM - 02:00 PM	30.3	32.2	33.3	33.1	32.3	32.0	31.4							
02:00 PM - 03:00 PM	29.7	31.4	33.1	32.8	33.6	31.7	32.7							
03:00 PM - 04:00 PM	29.2	30.2	31.7	32.7	32.8	32.0	31.5							
04:00 PM - 05:00 PM	28.2	29.1	31.0	31.5	31.6	30.4	31.4							
05:00 PM - 06:00 PM	26.3	26.9	29.9	30.1	30.6	29.7	30.1							
06:00 PM - 07:00 PM	25.4	25.8	27.7	28.2	29.1	28.6	29.1							
07:00 PM - 08:00 PM	25.2	25.1	26.4	27.3	26.9	28.4	28.2							
08:00 PM - 09:00 PM	24.7	24.8	25.7	27.1	27.6	28.3	28.1							
09:00 PM - 10:00 PM	24.2	24.1	25.5	26.7	26.3	27.7	27.9							
10:00 PM - 11:00 PM	23.7	23.9	25.4	26.3	25.7	27.0	27.5							
11:00 PM - 12:00 AM	23.7	23.6	25.5	25.5	26.3	26.9	27.8							
12:00 AM - 01:00 AM	22.9	23.7	24.9	25.3	25.9	25.5	25.8							
01:00 AM - 02:00 AM	22.4	23.6	25.3	25.2	25.4	26.0	25.7							
02:00 AM - 03:00 AM	22.4	23.4	24.8	25.2	24.8	26.1	25.8							
03:00 AM - 04:00 AM	22.0	23.2	24.2	24.7	24.1	25.8	26.3							
04:00 AM - 05:00 AM	21.6	22.8	22.7	24.8	24.1	25.3	26.4							
05:00 AM - 06:00 AM	22.2	22.6	22.9	24.3	23.9	24.8	26.5							
06:00 AM - 07:00 AM	22.7	22.0	23.1	24.1	23.7	25.2	26.1							
07:00 AM - 08:00 AM	24.4	23.3	23.9	24.8	23.9	25.4	25.9							
08:00 AM - 09:00 AM	26.7	24.9	26.1	26.3	25.4	26.5	26.6							
09:00 AM - 10:00 AM	29.1	27.9	28.2	27.9	27.1	28.3	28.2							
10:00 AM - 11:00 AM	29.9	30.6	29.9	29.9	29.2	29.7	28.6							
Average - 24 hr	25.7	26.1	27.3	27.8	27.6	28.0	28.3							
Max - 1 hr	30.3	32.2	33.3	33.1	33.6	32.0	32.7							
Min - 1 hr	21.6	22.0	22.7	24.1	23.7	24.8	25.7							

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124615**  
Date Received :Nov 29, 2023  
Date Reported :Dec 06, 2023  
Report Number :2853880-1 C8

Page 1 of 1

**Sample Number** 23124615-8 to 14  
**Parameter** Temperature  
**Location** รพ.เลมโนงา (GPS 47P 0670135, 1575164)  
**Sampling Date** Nov 20 - Nov 27, 2023  
**Sampling by** Thananat Anake

Time	Temperature (°C)													
	Nov 20 - Nov 21, 2023	Nov 21 - Nov 22, 2023	Nov 22 - Nov 23, 2023	Nov 23 - Nov 24, 2023	Nov 24 - Nov 25, 2023	Nov 25 - Nov 26, 2023	Nov 26 - Nov 27, 2023							
12:00 PM - 01:00 PM	32.0	33.1	33.3	34.2	33.1	33.4	33.4							
01:00 PM - 02:00 PM	32.2	33.6	33.2	34.3	33.2	33.2	33.3							
02:00 PM - 03:00 PM	32.7	33.9	33.1	33.9	35.1	33.4	34.7							
03:00 PM - 04:00 PM	32.3	33.7	32.8	34.9	33.6	32.2	34.5							
04:00 PM - 05:00 PM	31.5	32.8	31.7	33.9	31.6	31.1	32.6							
05:00 PM - 06:00 PM	28.7	29.8	29.4	30.5	30.8	29.7	30.5							
06:00 PM - 07:00 PM	26.5	27.3	27.8	28.7	29.0	28.8	29.2							
07:00 PM - 08:00 PM	25.7	26.0	27.0	28.3	27.8	28.8	28.9							
08:00 PM - 09:00 PM	25.5	25.4	26.1	27.8	28.1	28.4	28.7							
09:00 PM - 10:00 PM	25.0	25.1	26.0	27.5	27.0	27.9	28.4							
10:00 PM - 11:00 PM	24.2	24.6	25.9	26.7	26.2	27.1	28.1							
11:00 PM - 12:00 AM	24.3	24.5	25.5	25.9	26.7	26.6	28.2							
12:00 AM - 01:00 AM	23.5	23.8	25.0	25.4	26.0	25.6	26.4							
01:00 AM - 02:00 AM	22.8	23.9	25.4	25.1	25.6	26.1	25.6							
02:00 AM - 03:00 AM	22.4	23.9	24.9	25.3	24.8	26.4	26.2							
03:00 AM - 04:00 AM	22.2	23.3	23.9	25.0	24.3	25.7	26.6							
04:00 AM - 05:00 AM	22.2	22.9	23.3	24.9	24.2	25.0	26.6							
05:00 AM - 06:00 AM	22.3	22.8	23.4	24.4	24.2	24.9	26.7							
06:00 AM - 07:00 AM	22.4	22.0	23.3	24.2	23.7	25.3	26.2							
07:00 AM - 08:00 AM	24.3	25.1	25.6	25.9	25.0	26.2	26.4							
08:00 AM - 09:00 AM	27.2	27.9	28.7	28.8	27.6	28.2	28.7							
09:00 AM - 10:00 AM	29.0	31.0	30.3	30.4	29.2	29.7	29.2							
10:00 AM - 11:00 AM	31.1	31.5	31.4	32.2	30.8	31.7	29.6							
11:00 AM - 12:00 PM	32.0	32.2	32.3	31.8	32.7	31.4	30.8							
Average - 24 hr	27.5	27.5	28.3	28.8	28.3	29.1	29.1							
Max - 1 hr	32.7	33.9	33.3	34.9	35.1	33.4	34.7							
Min - 1 hr	22.2	22.0	23.3	24.2	23.7	24.9	25.6							

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Sarayuth Jitranont  
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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124615**  
Date Received : Nov 29, 2023  
Date Reported : Dec 06, 2023  
Report Number : 2853881-1 C8

Page 1 of 1

**Sample Number** 23124615-15 to 21  
**Parameter** Temperature  
**Location** วัดที่ 3 ตำบลบ้านนอก (GPS 47P 0675133, 1574541)  
**Sampling Date** Nov 20 - Nov 27, 2023  
**Sampling by** Thananat Anake

Time	Temperature (°C)													
	Nov 20 - Nov 21, 2023	Nov 21 - Nov 22, 2023	Nov 22 - Nov 23, 2023	Nov 23 - Nov 24, 2023	Nov 24 - Nov 25, 2023	Nov 25 - Nov 26, 2023	Nov 26 - Nov 27, 2023							
01:00 PM - 02:00 PM	32.1	33.4	33.2	33.4	35.9	33.3	32.5							
02:00 PM - 03:00 PM	31.6	32.2	33.3	33.7	34.7	32.5	33.2							
03:00 PM - 04:00 PM	30.7	31.7	31.9	32.8	32.9	31.7	32.5							
04:00 PM - 05:00 PM	29.6	30.8	30.8	31.4	32.2	30.6	31.5							
05:00 PM - 06:00 PM	28.4	28.7	28.8	28.9	30.7	30.2	30.3							
06:00 PM - 07:00 PM	25.5	26.7	27.2	27.6	28.3	29.3	28.4							
07:00 PM - 08:00 PM	24.8	25.5	26.3	27.3	27.1	28.8	27.9							
08:00 PM - 09:00 PM	24.7	24.9	25.8	27.0	26.4	28.4	27.9							
09:00 PM - 10:00 PM	24.1	24.6	25.5	27.1	26.6	27.8	27.5							
10:00 PM - 11:00 PM	23.4	24.4	25.3	26.9	25.5	26.4	27.6							
11:00 PM - 12:00 AM	23.2	24.1	25.7	25.4	25.5	26.6	28.3							
12:00 AM - 01:00 AM	22.6	23.4	25.1	25.2	26.3	25.7	27.0							
01:00 AM - 02:00 AM	22.7	23.6	24.1	25.1	25.5	26.0	26.1							
02:00 AM - 03:00 AM	22.3	23.4	24.8	25.2	24.9	26.3	26.1							
03:00 AM - 04:00 AM	22.2	23.8	24.2	24.9	24.4	26.3	25.5							
04:00 AM - 05:00 AM	21.7	23.2	23.3	25.2	24.4	25.5	26.5							
05:00 AM - 06:00 AM	22.1	22.2	23.2	24.8	24.3	25.1	26.6							
06:00 AM - 07:00 AM	22.3	22.2	23.1	24.4	24.1	25.2	26.4							
07:00 AM - 08:00 AM	23.1	23.4	23.9	25.1	24.2	25.9	26.3							
08:00 AM - 09:00 AM	26.6	26.9	27.5	27.7	26.6	26.9	26.4							
09:00 AM - 10:00 AM	29.4	30.3	30.9	30.2	29.2	29.3	27.6							
10:00 AM - 11:00 AM	31.2	31.3	31.4	31.6	30.3	30.7	30.4							
11:00 AM - 12:00 PM	32.2	32.5	32.8	33.1	31.7	30.9	31.4							
12:00 PM - 01:00 PM	32.8	32.1	33.3	34.3	33.2	31.9	32.2							
Average - 24 hr	26.2	26.9	27.6	28.3	28.1	28.4	28.6							
Max - 1 hr	32.8	33.4	33.3	34.3	35.9	33.3	33.2							
Min - 1 hr	21.7	22.2	23.1	24.4	24.1	25.1	25.5							

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124615**  
Date Received : Nov 29, 2023  
Date Reported : Dec 06, 2023  
Report Number : 2816864-1 C8

Page 1 of 1

**Sample Number** 23124615-22 to 28  
**Parameter** Temperature  
**Location** วัดที่ 2 ตำบลบ้านนอก (GPS 47P 0672741, 1578180)  
**Sampling Date** Nov 20 - Nov 27, 2023  
**Sampling by** Thananat Anake

Time	Temperature (°C)													
	Nov 20 - Nov 21, 2023	Nov 21 - Nov 22, 2023	Nov 22 - Nov 23, 2023	Nov 23 - Nov 24, 2023	Nov 24 - Nov 25, 2023	Nov 25 - Nov 26, 2023	Nov 26 - Nov 27, 2023							
10:00 AM - 11:00 AM	31.5	33.1	26.0	27.2	30.3	32.1	26.8							
11:00 AM - 12:00 PM	32.5	33.2	27.2	28.8	31.4	33.1	28.9							
12:00 PM - 01:00 PM	32.9	32.8	27.9	28.8	31.8	33.7	29.3							
01:00 PM - 02:00 PM	32.7	32.6	28.2	24.6	33.3	33.6	32.0							
02:00 PM - 03:00 PM	33.3	32.3	28.7	26.1	32.0	33.1	32.1							
03:00 PM - 04:00 PM	33.5	31.3	28.8	24.8	31.5	32.6	31.2							
04:00 PM - 05:00 PM	32.9	31.1	28.4	23.2	30.1	31.7	29.4							
05:00 PM - 06:00 PM	32.3	30.4	27.8	23.5	29.0	30.6	27.3							
06:00 PM - 07:00 PM	31.8	30.2	27.5	23.7	28.2	29.3	26.0							
07:00 PM - 08:00 PM	29.9	29.7	27.2	23.7	27.7	28.6	25.9							
08:00 PM - 09:00 PM	29.4	29.2	26.4	23.7	27.3	27.9	25.5							
09:00 PM - 10:00 PM	28.9	29.0	22.2	23.8	27.3	27.5	25.3							
10:00 PM - 11:00 PM	28.2	28.2	22.6	23.9	27.2	27.3	25.5							
11:00 PM - 12:00 AM	27.8	27.2	22.3	23.9	27.0	27.8	25.3							
12:00 AM - 01:00 AM	27.6	26.7	22.4	23.9	27.0	27.1	25.3							
01:00 AM - 02:00 AM	27.5	26.6	22.7	23.9	26.7	25.0	25.1							
02:00 AM - 03:00 AM	27.2	26.4	22.9	24.2	26.7	26.7	25.1							
03:00 AM - 04:00 AM	27.0	26.5	23.3	24.0	26.2	26.4	25.1							
04:00 AM - 05:00 AM	27.1	26.4	23.7	24.0	25.9	26.4	24.9							
05:00 AM - 06:00 AM	26.8	26.2	23.9	24.2	26.0	26.4	24.8							
06:00 AM - 07:00 AM	27.0	26.4	24.2	24.3	25.9	26.6	24.8							
07:00 AM - 08:00 AM	27.8	23.7	24.4	26.5	28.2	27.1	26.7							
08:00 AM - 09:00 AM	29.2	24.2	25.4	27.8	29.8	25.6	27.4							
09:00 AM - 10:00 AM	31.0	24.8	26.2	28.8	30.4	23.1	27.8							
Average - 24 hr	29.8	25.7	25.4	25.1	28.6	28.7	27.0							
Max - 1 hr	33.5	33.2	28.8	28.8	33.3	33.7	32.1							
Min - 1 hr	26.8	23.7	22.2	23.2	25.9	23.1	24.8							

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayuthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124617**  
Date Received : Nov 29, 2023  
Date Reported : Dec 06, 2023  
Report Number : 2816872-1 C8

Page 1 of 2

**Sample Number** 23124617-8 to 14  
**Parameter** Wind Speed / Wind Direction  
**Location** ต.วังน้อย อ.วังน้อย จ.พระนครศรีอยุธยา (GPS 47P 0670135, 1575164)  
**Sampling Date** Nov 20 - Nov 27, 2023  
**Sampling by** Thanarat Anake

Time	Nov 20 - Nov 21, 2023		Nov 21 - Nov 22, 2023		Nov 22 - Nov 23, 2023		Nov 23 - Nov 24, 2023		Nov 24 - Nov 25, 2023		Nov 25 - Nov 26, 2023		Nov 26 - Nov 27, 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)											
12:00 PM - 01:00 PM	2.4	19.0	NNE	N	0.9	31.0	NNE	0.3	0.0	N	1.6	130.0	SE	1.3	65.0	SE	1.3	65.0	SE	2.2	0.0	N	1.8	12.0	NNE
01:00 PM - 02:00 PM	1.8	356.0	N	1.4	13.0	NNE	0.8	20.0	NNE	0.5	316.0	NW	0.8	67.0	ENE	1.9	40.0	NE	1.9	40.0	NE	1.9	22.0	NNE	
02:00 PM - 03:00 PM	2.1	28.0	NNE	0.4	357.0	N	0.8	274.0	W	0.0	-	-	2.7	132.0	SE	1.2	30.0	NNE	2.9	359.0	N	-	-	-	
03:00 PM - 04:00 PM	2.7	23.0	NNE	1.0	31.0	NNE	1.4	280.0	W	1.4	25.0	NNE	2.1	137.0	SE	1.6	27.0	NNE	1.4	10.0	N	-	-	-	
04:00 PM - 05:00 PM	2.3	0.0	N	1.1	34.0	NE	0.3	279.0	W	0.8	343.0	NNW	0.9	124.0	SE	1.9	30.0	NNE	3.1	24.0	NNE	-	-	-	
05:00 PM - 06:00 PM	1.1	18.0	NNE	0.7	4.0	N	0.0	-	-	0.0	-	-	0.6	127.0	SE	0.7	38.0	NE	1.4	22.0	NNE	-	-	-	
06:00 PM - 07:00 PM	1.2	7.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.7	1.0	N	-	-	-	
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	1.3	3.0	N	0.0	-	-	-	-	-	
08:00 PM - 09:00 PM	0.2	-	-	0.0	-	-	0.0	-	-	0.4	358.0	N	0.3	47.0	NE	0.9	34.0	NE	0.5	0.0	N	-	-	-	
09:00 PM - 10:00 PM	1.7	40.0	NE	0.3	12.0	NNE	0.0	-	-	1.0	359.0	N	0.0	-	-	1.3	22.0	NNE	0.2	-	-	-	-	-	
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	1.7	0.0	N	0.0	-	-	0.3	29.0	NNE	1.1	9.0	N	1.3	359.0	N	-	-	-	
11:00 PM - 12:00 AM	1.0	1.0	N	0.8	1.0	N	0.0	-	-	0.0	-	-	1.3	350.0	N	2.3	30.0	NNE	0.2	-	-	1.9	75.0	ENE	
12:00 AM - 01:00 AM	1.9	7.0	N	0.4	8.0	N	0.0	-	-	1.4	19.0	NNE	0.5	0.0	N	2.2	7.0	N	1.8	2.0	N	2.7	20.0	NNE	
01:00 AM - 02:00 AM	0.4	359.0	N	0.0	-	-	1.4	19.0	NNE	0.5	0.0	N	2.2	7.0	N	1.8	2.0	N	2.7	20.0	NNE	-	-	-	
02:00 AM - 03:00 AM	0.8	31.0	NNE	1.6	27.0	NNE	0.0	-	-	1.9	4.0	N	1.8	10.0	N	2.6	9.0	N	3.3	88.0	E	-	-	-	
03:00 AM - 04:00 AM	1.1	15.0	NNE	1.5	4.0	N	0.0	-	-	1.7	22.0	NNE	1.0	99.0	ENE	2.5	3.0	N	2.7	56.0	NE	-	-	-	
04:00 AM - 05:00 AM	2.4	12.0	NNE	0.7	24.0	NNE	0.0	-	-	0.6	30.0	NNE	1.6	9.0	N	1.0	36.0	NE	3.1	5.0	N	-	-	-	
05:00 AM - 06:00 AM	2.1	30.0	NNE	0.5	24.0	NNE	0.0	-	-	2.3	13.0	NNE	1.1	7.0	N	0.2	-	-	3.8	17.0	NNE	-	-	-	
06:00 AM - 07:00 AM	3.2	13.0	NNE	0.0	-	-	0.0	-	-	2.4	20.0	NNE	0.6	38.0	NE	2.5	10.0	N	2.4	10.0	N	-	-	-	
07:00 AM - 08:00 AM	4.2	356.0	N	0.0	-	-	2.1	33.0	NNE	3.6	8.0	N	2.1	1.0	N	1.9	28.0	NNE	2.0	51.0	NE	-	-	-	
08:00 AM - 09:00 AM	3.5	20.0	NNE	1.6	3.0	N	1.4	5.0	N	0.3	9.0	N	2.7	45.0	NE	1.2	28.0	NNE	2.2	34.0	NE	-	-	-	
09:00 AM - 10:00 AM	2.0	359.0	N	2.6	15.0	NNE	2.3	23.0	NNE	1.7	28.0	NNE	1.1	16.0	NNE	1.9	37.0	NE	2.0	42.0	NE	-	-	-	
10:00 AM - 11:00 AM	1.3	87.0	E	0.0	-	-	1.2	56.0	NE	2.1	4.0	N	0.8	36.0	NE	1.5	23.0	NNE	1.8	38.0	NE	-	-	-	
11:00 AM - 12:00 PM	1.0	18.0	NNE	1.2	8.0	N	1.2	86.0	E	1.7	97.0	E	1.8	37.0	NE	1.0	48.0	NE	1.8	36.0	NE	-	-	-	

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Assistant General Manager

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Assistant General Manager

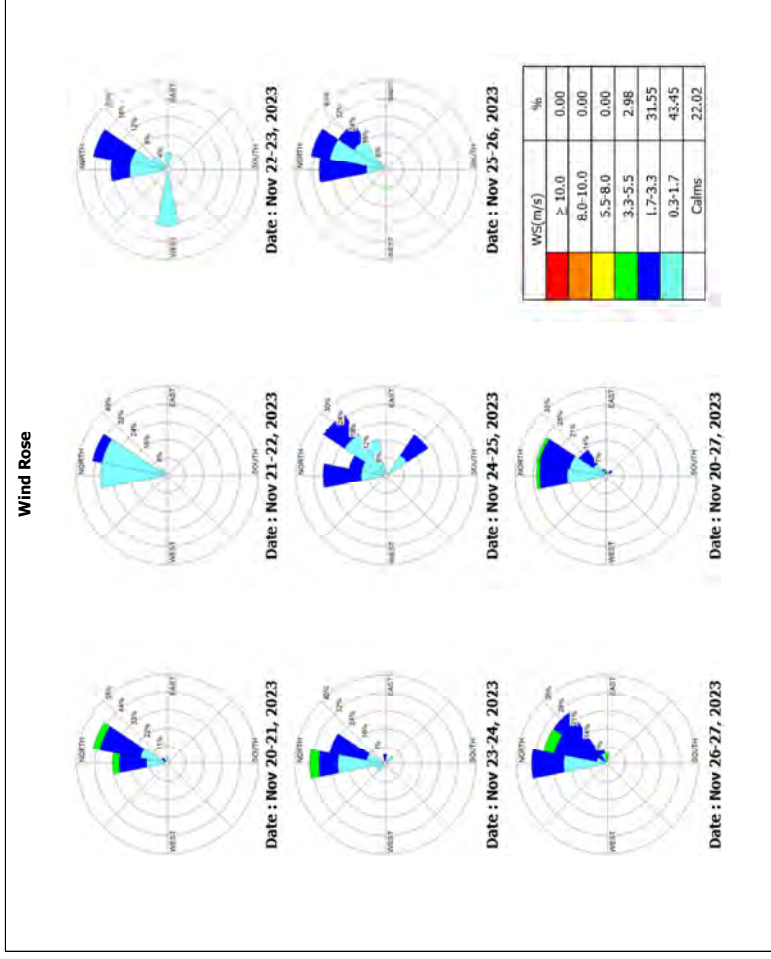


## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayuthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124617**  
Date Received : Nov 29, 2023  
Date Reported : Dec 06, 2023  
Report Number : 2816872-1 C8

Page 2 of 2







## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124617**  
**Date Received :** Nov 29, 2023  
**Date Reported :** Dec 06, 2023  
**Report Number :** 2816872-1 C8

Page 1 of 2

**Sample Number** 23124617-15 to 21  
**Parameter** Wind Speed / Wind Direction  
**Location** วิทยาลัย 3 ธันวาคม (GPS 47P 0675133, 1574541)  
**Sampling Date** Nov 20 - Nov 27, 2023  
**Sampling by** Thanarat Anake

Time	Nov 20 - Nov 21, 2023	Nov 21 - Nov 22, 2023	Nov 22 - Nov 23, 2023	Nov 23 - Nov 24, 2023	Nov 24 - Nov 25, 2023	Nov 25 - Nov 26, 2023	Nov 26 - Nov 27, 2023
WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
01:00 PM - 02:00 PM	0.3	80.0	E	0.0	-	0.0	-
02:00 PM - 03:00 PM	0.4	94.0	E	1.6	106.0	ESE	0.2
03:00 PM - 04:00 PM	0.0	-	1.2	185.0	S	0.2	-
04:00 PM - 05:00 PM	0.0	-	0.5	90.0	E	0.3	68.0
05:00 PM - 06:00 PM	0.0	-	0.6	74.0	ENE	0.0	-
06:00 PM - 07:00 PM	0.0	-	0.0	-	0.0	-	1.4
07:00 PM - 08:00 PM	0.0	-	0.0	-	0.0	-	1.9
08:00 PM - 09:00 PM	0.0	-	0.0	-	0.5	50.0	NE
09:00 PM - 10:00 PM	0.0	-	0.0	-	0.0	-	0.0
10:00 PM - 11:00 PM	0.0	-	0.0	-	0.0	-	0.0
11:00 PM - 12:00 AM	0.0	-	0.0	-	0.0	-	0.0
12:00 AM - 01:00 AM	0.0	-	0.0	-	0.0	-	0.0
01:00 AM - 02:00 AM	0.0	-	0.0	-	0.0	-	0.0
02:00 AM - 03:00 AM	0.0	-	0.0	-	0.0	-	0.0
03:00 AM - 04:00 AM	0.0	-	0.0	-	0.0	-	0.0
04:00 AM - 05:00 AM	0.0	-	0.0	-	0.0	-	0.0
05:00 AM - 06:00 AM	0.0	-	0.0	-	0.0	-	0.0
06:00 AM - 07:00 AM	0.0	-	0.0	-	0.0	-	0.0
07:00 AM - 08:00 AM	0.0	-	0.0	-	0.0	-	0.0
08:00 AM - 09:00 AM	1.4	90.0	E	0.3	87.0	E	0.8
09:00 AM - 10:00 AM	0.9	64.0	ENE	0.2	-	1.8	105.0
10:00 AM - 11:00 AM	0.3	109.0	ESE	2.1	103.0	ESE	0.1
11:00 AM - 12:00 PM	0.4	88.0	E	1.4	85.0	E	0.3
12:00 PM - 01:00 PM	0.4	71.0	ENE	0.0	-	0.0	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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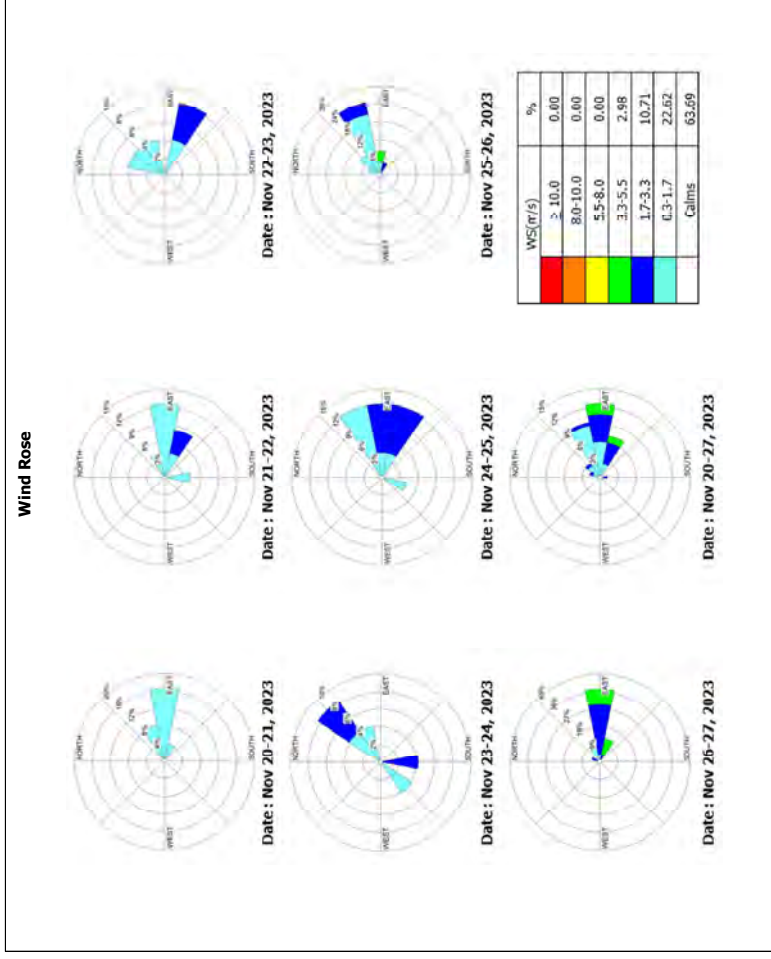


## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124617**  
**Date Received :** Nov 29, 2023  
**Date Reported :** Dec 06, 2023  
**Report Number :** 2816872-1 C8

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayuthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124617**  
**Date Received :** Nov 29, 2023  
**Date Reported :** Dec 06, 2023  
**Report Number :** 2816872-1 C8

Page 1 of 2

**Sample Number** 23124617-22 to 28  
**Parameter** Wind Speed / Wind Direction  
**Location** ไร่ 2 ถนนพหลโยธิน (GPS 47P 0672741, 1578180)  
**Sampling Date** Nov 20 - Nov 27, 2023  
**Sampling by** Thanarat Anake

Time	Nov 20 - Nov 21, 2023		Nov 21 - Nov 22, 2023		Nov 22 - Nov 23, 2023		Nov 23 - Nov 24, 2023		Nov 24 - Nov 25, 2023		Nov 25 - Nov 26, 2023		Nov 26 - Nov 27, 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	0.3	355.0	N	0.0	-	-	1.3	352.0	N	0.0	-	-	0.8	18.0	NNE	1.1	359.0	N	2.7	343.0	NNW
11:00 AM - 12:00 PM	0.3	354.0	N	1.7	330.0	NNW	0.0	-	-	0.0	-	-	0.5	2.0	N	0.0	-	-	3.0	2.0	N
12:00 PM - 01:00 PM	0.5	342.0	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.8	359.0	N	0.0	-	-	0.4	312.0	NW	-
01:00 PM - 02:00 PM	1.6	359.0	N	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	1.8	359.0	N	2.2	333.0	NNW	-	
02:00 PM - 03:00 PM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.4	324.0	NW	1.1	355.0	N	-	-	
03:00 PM - 04:00 PM	0.0	-	0.0	-	0.0	-	0.0	-	0.9	359.0	N	0.0	-	1.5	357.0	N	0.0	-	-	-	
04:00 PM - 05:00 PM	0.0	-	1.2	23.0	NNE	0.0	-	0.0	-	0.0	-	0.0	-	1.4	11.0	N	1.9	2.0	N	-	
05:00 PM - 06:00 PM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	1.0	39.0	NE	-	
06:00 PM - 07:00 PM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	-	
07:00 PM - 08:00 PM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	1.9	345.0	NNW	0.0	-	-	
08:00 PM - 09:00 PM	0.0	-	0.0	-	0.0	-	0.0	-	0.8	9.0	N	0.0	-	1.0	0.0	N	0.0	-	-	-	
09:00 PM - 10:00 PM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	-	
10:00 PM - 11:00 PM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	-	
11:00 PM - 12:00 AM	0.0	-	0.0	-	0.5	347.0	NNW	0.3	356.0	N	0.8	27.0	NNE	0.0	-	-	1.1	0.0	N	-	
12:00 AM - 01:00 AM	0.1	-	0.0	-	0.0	-	0.0	-	0.2	-	0.0	-	0.0	-	0.4	346.0	NNW	0.0	-	-	
01:00 AM - 02:00 AM	1.0	9.0	N	0.0	-	0.0	-	0.7	4.0	N	1.4	33.0	NNE	1.1	348.0	NNW	2.1	356.0	N	-	
02:00 AM - 03:00 AM	1.7	338.0	NNW	0.0	-	1.7	350.0	N	1.8	343.0	NNW	0.9	327.0	NNW	1.4	359.0	N	0.0	-	-	
03:00 AM - 04:00 AM	1.5	359.0	N	0.2	-	0.0	-	1.2	352.0	N	1.1	351.0	N	1.6	347.0	NNW	0.0	-	-	-	
04:00 AM - 05:00 AM	1.5	12.0	NNE	0.7	0.0	N	0.0	-	1.3	342.0	NNW	0.5	359.0	N	1.6	359.0	N	0.0	-	-	
05:00 AM - 06:00 AM	0.8	0.0	N	0.4	24.0	NNE	1.0	15.0	NNE	1.7	0.0	N	0.8	5.0	N	1.3	330.0	NNW	0.0	-	
06:00 AM - 07:00 AM	2.4	359.0	N	0.2	-	0.5	348.0	NNW	1.5	12.0	NNE	1.1	6.0	N	0.9	359.0	N	0.0	-	-	
07:00 AM - 08:00 AM	0.7	359.0	N	0.5	4.0	N	1.6	15.0	NNE	1.9	359.0	N	0.9	354.0	N	2.0	9.0	N	0.0	-	
08:00 AM - 09:00 AM	1.4	359.0	N	1.0	359.0	N	1.7	399.0	N	1.0	359.0	N	2.7	326.0	NW	1.4	0.0	N	0.0	-	
09:00 AM - 10:00 AM	2.3	313.0	NW	1.9	358.0	N	1.4	358.0	N	2.1	336.0	NNW	1.0	37.0	NE	0.7	357.0	N	0.0	-	

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed parameter(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

Sarayu Jitranont  
Assistant General Manager

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Approved by

Sarayu Jitranont  
Assistant General Manager

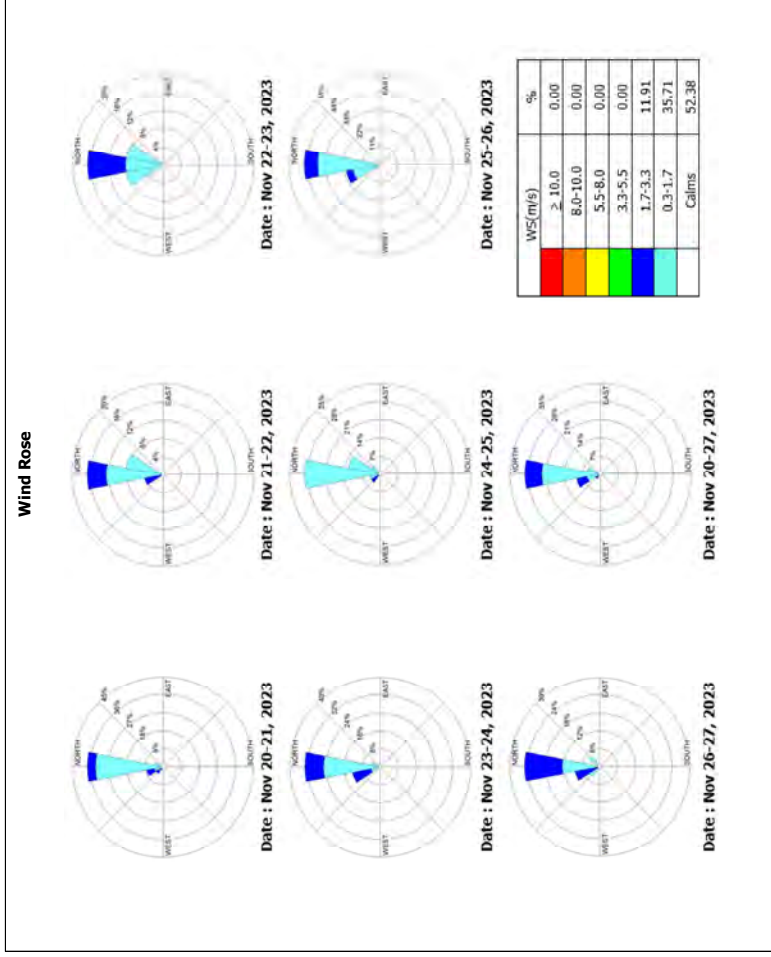


## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayuthaya Thailand 13160  
**P/O :** 4210802119  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124617**  
**Date Received :** Nov 29, 2023  
**Date Reported :** Dec 06, 2023  
**Report Number :** 2816872-1 C8

Page 2 of 2





## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857922-1

Page 1 of 1

Sample Number 23122965-1

Parameter Noise (Leq 24 hrs.)

Location บริเวณจุดตรวจโครงการ (GPS 47P 671368, 1576143)

Measurement Date Nov 20 - Nov 21, 2023

Measurement by Thananai Anake

Sound Level meter Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	58.2	73.3	57.3
04:00 PM - 05:00 PM	58.5	71.3	57.7
05:00 PM - 06:00 PM	60.4	76.7	59.3
06:00 PM - 07:00 PM	58.2	72.8	57.4
07:00 PM - 08:00 PM	58.1	79.3	56.9
08:00 PM - 09:00 PM	57.5	75.9	56.9
09:00 PM - 10:00 PM	56.9	66.1	56.2
10:00 PM - 11:00 PM	56.7	71.3	56.1
11:00 PM - 12:00 AM	56.9	69.5	55.8
12:00 AM - 01:00 AM	56.5	66.8	55.7
01:00 AM - 02:00 AM	56.9	77.1	56.0
02:00 AM - 03:00 AM	56.4	64.9	55.9
03:00 AM - 04:00 AM	56.5	68.8	55.9
04:00 AM - 05:00 AM	56.9	64.4	56.2
05:00 AM - 06:00 AM	64.4	75.9	61.8
06:00 AM - 07:00 AM	59.2	81.3	57.2
07:00 AM - 08:00 AM	58.8	75.0	57.3
08:00 AM - 09:00 AM	58.5	73.8	57.5
09:00 AM - 10:00 AM	58.2	66.4	57.4
10:00 AM - 11:00 AM	57.9	67.5	57.1
11:00 AM - 12:00 PM	59.4	74.0	58.3
12:00 PM - 01:00 PM	58.1	74.6	57.0
01:00 PM - 02:00 PM	58.0	75.6	57.1
02:00 PM - 03:00 PM	57.6	71.9	56.9
Leq Average 24 hrs. (dB(A))	58.5		
Lmax (dB(A))	81.3		
L90 (dB(A))			57.0
Ldn (dB(A))	65.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

Orawan R.  
Orawan Rakying  
Scientist (3)

Approved by

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



14479-21/ EMAIL

S:\Reports\_Air Noise pr ( 5.47PM)



## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857923-1

Page 1 of 1

Sample Number 23122965-2

Parameter Noise (Leq 24 hrs.)

Location บริเวณจุดตรวจโครงการ (GPS 47P 671368, 1576143)

Measurement Date Nov 21 - Nov 22, 2023

Measurement by Thananai Anake

Sound Level meter Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	58.2	80.9	57.2
04:00 PM - 05:00 PM	58.1	73.4	57.3
05:00 PM - 06:00 PM	61.1	78.9	59.5
06:00 PM - 07:00 PM	59.7	76.3	58.6
07:00 PM - 08:00 PM	58.4	74.2	57.1
08:00 PM - 09:00 PM	57.3	67.2	56.6
09:00 PM - 10:00 PM	56.7	67.0	56.1
10:00 PM - 11:00 PM	56.8	65.5	55.9
11:00 PM - 12:00 AM	56.0	65.0	54.9
12:00 AM - 01:00 AM	55.3	68.0	54.7
01:00 AM - 02:00 AM	55.6	67.7	55.0
02:00 AM - 03:00 AM	55.5	64.8	54.9
03:00 AM - 04:00 AM	55.3	63.4	54.9
04:00 AM - 05:00 AM	56.1	67.3	55.4
05:00 AM - 06:00 AM	65.0	74.1	62.4
06:00 AM - 07:00 AM	59.1	71.3	57.3
07:00 AM - 08:00 AM	58.0	69.8	56.4
08:00 AM - 09:00 AM	57.6	73.9	56.7
09:00 AM - 10:00 AM	58.2	74.6	56.8
10:00 AM - 11:00 AM	57.9	71.6	56.9
11:00 AM - 12:00 PM	59.4	70.4	58.6
12:00 PM - 01:00 PM	58.2	65.5	57.6
01:00 PM - 02:00 PM	58.3	74.2	57.2
02:00 PM - 03:00 PM	57.9	69.9	57.1
Leq Average 24 hrs. (dB(A))	58.6		
Lmax (dB(A))	80.9		
L90 (dB(A))			56.8
Ldn (dB(A))	65.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

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Scientist (3)

Approved by

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



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Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857924-1

Page 1 of 1

Sample Number 23122965-3

Parameter Noise (Leq 24 hrs.)

Location บริเวณด้านใต้ของโครงการ (GPS 47P 671368, 1576143)

Measurement Date Nov 22 - Nov 23, 2023

Measurement by Thananai Anake

Sound Level meter Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	58.1	69.7	57.2
04:00 PM - 05:00 PM	58.2	78.8	57.0
05:00 PM - 06:00 PM	60.1	72.1	58.8
06:00 PM - 07:00 PM	57.5	68.1	56.7
07:00 PM - 08:00 PM	57.1	69.2	56.4
08:00 PM - 09:00 PM	57.6	70.4	56.5
09:00 PM - 10:00 PM	57.5	73.8	56.2
10:00 PM - 11:00 PM	56.6	67.2	55.8
11:00 PM - 12:00 AM	56.2	64.7	55.3
12:00 AM - 01:00 AM	54.9	65.0	54.5
01:00 AM - 02:00 AM	55.6	74.6	54.8
02:00 AM - 03:00 AM	55.3	63.6	54.8
03:00 AM - 04:00 AM	55.2	64.2	54.7
04:00 AM - 05:00 AM	56.0	64.7	55.2
05:00 AM - 06:00 AM	65.3	73.0	62.6
06:00 AM - 07:00 AM	58.4	69.3	56.8
07:00 AM - 08:00 AM	58.5	71.9	56.8
08:00 AM - 09:00 AM	58.4	67.1	57.3
09:00 AM - 10:00 AM	65.4	65.4	57.2
10:00 AM - 11:00 AM	57.9	73.7	57.0
11:00 AM - 12:00 PM	59.4	69.9	58.3
12:00 PM - 01:00 PM	58.5	65.9	57.8
01:00 PM - 02:00 PM	58.5	73.4	57.6
02:00 PM - 03:00 PM	58.7	71.3	58.0
Leq Average 24 hrs. (dB(A))	58.5		
Lmax (dB(A))	78.8		56.8
L90 (dB(A))			
Ldn (dB(A))	65.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ  
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Orawan Rakying  
Scientist (3)

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S:\Reports\_Air Noise pr ( 5.42PM)



Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857925-1

Page 1 of 1

Sample Number 23122965-4

Parameter Noise (Leq 24 hrs.)

Location บริเวณด้านใต้ของโครงการ (GPS 47P 671368, 1576143)

Measurement Date Nov 23 - Nov 24, 2023

Measurement by Thananai Anake

Sound Level meter Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	60.9	70.8	59.5
04:00 PM - 05:00 PM	58.0	82.0	56.5
05:00 PM - 06:00 PM	60.4	73.0	59.5
06:00 PM - 07:00 PM	59.0	70.9	57.9
07:00 PM - 08:00 PM	57.5	69.5	56.5
08:00 PM - 09:00 PM	56.9	65.1	56.2
09:00 PM - 10:00 PM	57.9	75.8	56.3
10:00 PM - 11:00 PM	56.4	68.8	55.6
11:00 PM - 12:00 AM	56.1	66.4	55.0
12:00 AM - 01:00 AM	55.1	59.8	54.7
01:00 AM - 02:00 AM	56.0	71.3	55.0
02:00 AM - 03:00 AM	55.6	63.3	55.0
03:00 AM - 04:00 AM	55.7	67.0	55.0
04:00 AM - 05:00 AM	56.3	67.3	55.4
05:00 AM - 06:00 AM	65.8	75.7	63.3
06:00 AM - 07:00 AM	59.3	82.8	55.4
07:00 AM - 08:00 AM	60.2	86.5	56.0
08:00 AM - 09:00 AM	62.5	93.1	56.4
09:00 AM - 10:00 AM	60.7	94.1	54.8
10:00 AM - 11:00 AM	58.4	82.8	55.9
11:00 AM - 12:00 PM	57.8	73.8	56.7
12:00 PM - 01:00 PM	59.5	73.1	58.4
01:00 PM - 02:00 PM	58.7	69.2	57.7
02:00 PM - 03:00 PM	59.1	74.2	58.2
Leq Average 24 hrs. (dB(A))	59.3		
Lmax (dB(A))	94.1		56.2
L90 (dB(A))			
Ldn (dB(A))	65.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ  
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Orawan R.

Orawan Rakying  
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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



14479-21/ EMAIL

S:\Reports\_Air Noise pr ( 5.42PM)



## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857926-1

Page 1 of 1

Sample Number 23122965-5

Parameter Noise (Leq 24 hrs.)

Location บริเวณด้านใต้ของโครงการ (GPS 47P 671368, 1576143)

Measurement Date Nov 24 - Nov 25, 2023

Measurement by Thananai Anake

Sound Level meter Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	59.5	72.2	58.4
04:00 PM - 05:00 PM	58.4	72.4	57.3
05:00 PM - 06:00 PM	60.5	76.5	59.4
06:00 PM - 07:00 PM	58.5	75.0	57.8
07:00 PM - 08:00 PM	57.8	71.6	56.7
08:00 PM - 09:00 PM	57.2	73.3	56.6
09:00 PM - 10:00 PM	57.5	73.4	56.1
10:00 PM - 11:00 PM	56.5	66.5	55.6
11:00 PM - 12:00 AM	57.2	73.8	55.9
12:00 AM - 01:00 AM	56.1	63.4	55.6
01:00 AM - 02:00 AM	56.6	82.8	55.7
02:00 AM - 03:00 AM	56.2	66.0	55.7
03:00 AM - 04:00 AM	56.2	61.8	55.7
04:00 AM - 05:00 AM	57.6	64.8	56.5
05:00 AM - 06:00 AM	65.9	73.1	63.4
06:00 AM - 07:00 AM	59.8	75.4	57.9
07:00 AM - 08:00 AM	59.3	76.7	57.6
08:00 AM - 09:00 AM	58.8	71.7	57.9
09:00 AM - 10:00 AM	58.9	67.3	58.0
10:00 AM - 11:00 AM	57.6	75.6	57.6
11:00 AM - 12:00 PM	58.7	75.8	57.2
12:00 PM - 01:00 PM	58.7	72.0	57.7
01:00 PM - 02:00 PM	58.9	75.2	57.8
02:00 PM - 03:00 PM	60.9	81.0	58.2
Leq Average 24 hrs. (dB(A))	59.1		
Lmax (dB(A))	82.8		
L90 (dB(A))			57.3
Ldn (dB(A))	65.9		
Standard (dB(A))	70	115	

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

**Technical Management**  
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Orawan Rakying  
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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



14479-21/ EMAIL

S:\Reports\_Air Noise pr ( 5:42PM)



## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857927-1

Page 1 of 1

Sample Number 23122965-6

Parameter Noise (Leq 24 hrs.)

Location บริเวณด้านใต้ของโครงการ (GPS 47P 671368, 1576143)

Measurement Date Nov 25 - Nov 26, 2023

Measurement by Thananai Anake

Sound Level meter Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	58.2	72.9	57.4
04:00 PM - 05:00 PM	58.0	73.6	57.0
05:00 PM - 06:00 PM	59.9	73.9	58.9
06:00 PM - 07:00 PM	57.0	66.6	56.3
07:00 PM - 08:00 PM	55.8	73.2	54.8
08:00 PM - 09:00 PM	56.2	75.1	55.2
09:00 PM - 10:00 PM	56.7	70.5	55.3
10:00 PM - 11:00 PM	56.2	63.4	55.5
11:00 PM - 12:00 AM	56.5	71.3	55.6
12:00 AM - 01:00 AM	55.8	68.2	55.3
01:00 AM - 02:00 AM	56.4	72.8	55.6
02:00 AM - 03:00 AM	56.0	73.1	55.3
03:00 AM - 04:00 AM	55.9	72.2	56.3
04:00 AM - 05:00 AM	57.4	64.5	56.3
05:00 AM - 06:00 AM	65.5	78.5	62.8
06:00 AM - 07:00 AM	59.1	79.2	57.1
07:00 AM - 08:00 AM	57.0	74.4	55.5
08:00 AM - 09:00 AM	56.5	67.0	55.3
09:00 AM - 10:00 AM	56.9	73.5	55.7
10:00 AM - 11:00 AM	56.1	68.5	55.0
11:00 AM - 12:00 PM	56.0	68.7	54.9
12:00 PM - 01:00 PM	55.7	68.1	54.7
01:00 PM - 02:00 PM	55.9	71.4	54.7
02:00 PM - 03:00 PM	55.7	69.3	54.7
Leq Average 24 hrs. (dB(A))	57.9		
Lmax (dB(A))	79.2		
L90 (dB(A))			55.3
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 เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ใดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

**Technical Management**  
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Scientist (3)

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



14479-21/ EMAIL

S:\Reports\_Air Noise pr ( 5:42PM)





## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857928-1

Page 1 of 1

Sample Number 23122965-7

Parameter Noise (Leq 24 hrs.)

Location บริเวณจุดตรวจโครงการ (GPS 47P 671368, 1576143)

Measurement Date Nov 26 - Nov 27, 2023

Measurement by Thananai Anake

Sound Level meter Serial No. 572552

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	55.4	65.8	54.5
04:00 PM - 05:00 PM	55.3	74.0	54.1
05:00 PM - 06:00 PM	59.9	75.2	58.0
06:00 PM - 07:00 PM	56.5	71.4	55.7
07:00 PM - 08:00 PM	56.0	73.3	54.8
08:00 PM - 09:00 PM	56.3	74.8	55.0
09:00 PM - 10:00 PM	55.7	72.7	54.7
10:00 PM - 11:00 PM	55.9	70.8	54.8
11:00 PM - 12:00 AM	55.6	71.0	54.5
12:00 AM - 01:00 AM	56.3	66.0	55.2
01:00 AM - 02:00 AM	56.1	70.4	54.9
02:00 AM - 03:00 AM	55.2	66.9	54.5
03:00 AM - 04:00 AM	55.4	62.9	54.7
04:00 AM - 05:00 AM	60.3	71.9	57.6
05:00 AM - 06:00 AM	65.6	73.8	63.0
06:00 AM - 07:00 AM	61.3	78.2	58.5
07:00 AM - 08:00 AM	59.2	72.6	57.5
08:00 AM - 09:00 AM	60.2	82.0	58.4
09:00 AM - 10:00 AM	60.8	81.9	58.4
10:00 AM - 11:00 AM	58.7	70.4	57.5
11:00 AM - 12:00 PM	58.4	66.0	57.6
12:00 PM - 01:00 PM	57.5	74.9	56.7
01:00 PM - 02:00 PM	57.9	72.0	56.7
02:00 PM - 03:00 PM	57.9	65.1	57.2
Leq Average 24 hrs. (dB(A))	58.7		
Lmax (dB(A))	82.0		
L90 (dB(A))			55.7
Ldn (dB(A))	65.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

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Scientist (3)

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14479-21/ EMAIL

S:\Reports\_Air Noise pr ( 5.45PM)



## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857929-1

Page 1 of 1

Sample Number 23122965-8

Parameter Noise (Leq 24 hrs.)

Location หมู่ที่ 1 ตำบลบ้านเลน (GPS 47P 670718, 1575775)

Measurement Date Nov 20 - Nov 21, 2023

Measurement by Thananai Anake

Sound Level meter Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.7	73.2	45.3
12:00 PM - 01:00 PM	50.0	71.0	45.5
01:00 PM - 02:00 PM	47.6	62.5	44.6
02:00 PM - 03:00 PM	49.8	74.3	46.0
03:00 PM - 04:00 PM	53.3	69.2	47.8
04:00 PM - 05:00 PM	49.6	70.0	45.6
05:00 PM - 06:00 PM	49.1	77.4	44.6
06:00 PM - 07:00 PM	50.2	72.2	44.8
07:00 PM - 08:00 PM	50.1	72.3	45.7
08:00 PM - 09:00 PM	48.0	62.6	44.8
09:00 PM - 10:00 PM	46.4	62.1	43.2
10:00 PM - 11:00 PM	47.4	63.2	42.9
11:00 PM - 12:00 AM	49.9	68.5	45.3
12:00 AM - 01:00 AM	50.5	67.2	46.1
01:00 AM - 02:00 AM	49.6	72.8	44.4
02:00 AM - 03:00 AM	49.3	66.4	44.5
03:00 AM - 04:00 AM	49.4	67.6	44.5
04:00 AM - 05:00 AM	49.4	69.4	44.7
05:00 AM - 06:00 AM	47.3	61.3	45.5
06:00 AM - 07:00 AM	46.6	59.8	44.7
07:00 AM - 08:00 AM	48.3	61.8	44.7
08:00 AM - 09:00 AM	51.2	69.7	46.3
09:00 AM - 10:00 AM	48.8	62.2	46.0
10:00 AM - 11:00 AM	47.8	63.5	44.9
Leq Average 24 hrs. (dB(A))	49.4		
Lmax (dB(A))		77.4	
L90 (dB(A))			44.8
Ldn (dB(A))	55.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

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Approved by

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14479-21/ EMAIL

S:\Reports\_Air Noise pr ( 5.45PM)



Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857930-1

Page 1 of 1

Sample Number 23122965-9

Parameter Noise (Leq 24 hrs.)

Location หมู่ที่ 1 ตำบลบ้านเลน (GPS 47P 670718, 1575775)

Measurement Date Nov 21 - Nov 22, 2023

Measurement by Thananatt Anake

Sound Level meter Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.3	68.6	46.2
12:00 PM - 01:00 PM	54.6	80.2	40.8
01:00 PM - 02:00 PM	47.3	76.0	41.3
02:00 PM - 03:00 PM	53.0	82.9	40.4
03:00 PM - 04:00 PM	50.2	71.2	40.4
04:00 PM - 05:00 PM	51.8	80.4	44.0
05:00 PM - 06:00 PM	49.9	73.7	44.8
06:00 PM - 07:00 PM	52.4	82.5	48.2
07:00 PM - 08:00 PM	54.4	78.4	48.6
08:00 PM - 09:00 PM	54.0	82.5	47.6
09:00 PM - 10:00 PM	51.9	79.7	46.7
10:00 PM - 11:00 PM	48.7	75.4	44.8
11:00 PM - 12:00 AM	48.9	68.5	45.9
12:00 AM - 01:00 AM	45.5	53.6	43.7
01:00 AM - 02:00 AM	50.9	67.8	46.0
02:00 AM - 03:00 AM	45.8	58.9	43.7
03:00 AM - 04:00 AM	44.5	58.1	42.8
04:00 AM - 05:00 AM	49.1	77.2	44.3
05:00 AM - 06:00 AM	50.7	78.2	46.0
06:00 AM - 07:00 AM	51.6	82.0	48.2
07:00 AM - 08:00 AM	50.1	74.4	45.6
08:00 AM - 09:00 AM	54.2	78.5	43.3
09:00 AM - 10:00 AM	46.0	69.0	40.6
10:00 AM - 11:00 AM	55.3	81.6	44.1
Leq Average 24 hrs. (dB(A))	51.4	82.9	44.3
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))	56.1		
Standard (dB(A))	70	115	

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

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Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857931-1

Page 1 of 1

Sample Number 23122965-10

Parameter Noise (Leq 24 hrs.)

Location หมู่ที่ 1 ตำบลบ้านเลน (GPS 47P 670718, 1575775)

Measurement Date Nov 22 - Nov 23, 2023

Measurement by Thananatt Anake

Sound Level meter Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.8	77.2	45.0
12:00 PM - 01:00 PM	51.6	78.9	41.9
01:00 PM - 02:00 PM	46.0	67.8	40.4
02:00 PM - 03:00 PM	54.7	78.9	45.1
03:00 PM - 04:00 PM	53.8	80.4	46.3
04:00 PM - 05:00 PM	53.7	82.4	41.8
05:00 PM - 06:00 PM	51.0	67.7	46.0
06:00 PM - 07:00 PM	50.8	72.7	46.9
07:00 PM - 08:00 PM	54.7	73.3	49.1
08:00 PM - 09:00 PM	55.2	79.4	50.4
09:00 PM - 10:00 PM	50.6	73.3	47.2
10:00 PM - 11:00 PM	52.4	78.2	47.9
11:00 PM - 12:00 AM	50.1	72.1	47.1
12:00 AM - 01:00 AM	52.1	80.2	46.6
01:00 AM - 02:00 AM	46.4	69.9	44.3
02:00 AM - 03:00 AM	46.5	60.5	44.8
03:00 AM - 04:00 AM	48.1	76.4	42.8
04:00 AM - 05:00 AM	48.2	74.7	43.9
05:00 AM - 06:00 AM	49.9	77.2	45.5
06:00 AM - 07:00 AM	52.6	71.8	48.3
07:00 AM - 08:00 AM	51.8	76.5	48.3
08:00 AM - 09:00 AM	61.2	80.0	47.3
09:00 AM - 10:00 AM	50.8	68.7	45.6
10:00 AM - 11:00 AM	50.9	75.5	44.5
Leq Average 24 hrs. (dB(A))	52.9	82.4	45.6
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))	57.4		
Standard (dB(A))	70	115	

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

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Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857932-1

Page 1 of 1

Sample Number 23122965-11

Parameter Noise (Leq 24 hrs.)

Location หมู่ที่ 1 ตำบลบ้านกล้วย (GPS 47P 670718, 1575775)

Measurement Date Nov 23 - Nov 24, 2023

Measurement by Thananatt Anake

Sound Level meter Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.2	78.9	43.5
12:00 PM - 01:00 PM	52.4	77.7	42.7
01:00 PM - 02:00 PM	47.1	71.9	41.7
02:00 PM - 03:00 PM	48.7	68.1	42.5
03:00 PM - 04:00 PM	50.5	72.4	44.4
04:00 PM - 05:00 PM	51.1	76.8	44.0
05:00 PM - 06:00 PM	53.2	77.9	45.3
06:00 PM - 07:00 PM	56.7	82.7	48.2
07:00 PM - 08:00 PM	54.1	78.9	49.4
08:00 PM - 09:00 PM	51.9	77.9	48.5
09:00 PM - 10:00 PM	50.7	76.2	46.8
10:00 PM - 11:00 PM	48.6	61.8	45.6
11:00 PM - 12:00 AM	48.2	71.6	45.3
12:00 AM - 01:00 AM	45.8	63.4	43.4
01:00 AM - 02:00 AM	45.4	53.9	43.7
02:00 AM - 03:00 AM	44.8	71.7	42.9
03:00 AM - 04:00 AM	47.0	74.8	43.8
04:00 AM - 05:00 AM	51.2	79.7	44.0
05:00 AM - 06:00 AM	48.3	75.9	44.4
06:00 AM - 07:00 AM	52.2	75.5	47.8
07:00 AM - 08:00 AM	51.9	75.0	48.3
08:00 AM - 09:00 AM	52.0	73.3	47.7
09:00 AM - 10:00 AM	49.8	67.7	46.2
10:00 AM - 11:00 AM	47.8	69.3	44.0
Leq Average 24 hrs. (dB(A))	51.0	82.7	44.4
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))	55.7		
Standard (dB(A))	70	115	
Reference Method : ISO1996-1 and 1996-2			
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป			
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการโรงงาน พ.ศ. 2548			

Orawan R.

Orawan Rakying  
Scientist (3)

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Approved by

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14479-21/ EMAIL

S:\Reports\_Air Noise pr / ( 5.46PM)



Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857933-1

Page 1 of 1

Sample Number 23122965-12

Parameter Noise (Leq 24 hrs.)

Location หมู่ที่ 1 ตำบลบ้านกล้วย (GPS 47P 670718, 1575775)

Measurement Date Nov 24 - Nov 25, 2023

Measurement by Thananatt Anake

Sound Level meter Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	47.2	65.5	41.5
12:00 PM - 01:00 PM	54.1	81.2	46.2
01:00 PM - 02:00 PM	48.2	71.8	41.5
02:00 PM - 03:00 PM	47.2	64.0	41.1
03:00 PM - 04:00 PM	53.5	81.8	42.4
04:00 PM - 05:00 PM	50.4	74.4	42.6
05:00 PM - 06:00 PM	55.0	82.6	47.0
06:00 PM - 07:00 PM	55.6	87.3	49.3
07:00 PM - 08:00 PM	52.8	74.2	50.2
08:00 PM - 09:00 PM	51.5	66.6	48.6
09:00 PM - 10:00 PM	51.0	67.0	48.8
10:00 PM - 11:00 PM	51.8	80.7	47.0
11:00 PM - 12:00 AM	51.1	65.4	46.2
12:00 AM - 01:00 AM	45.6	62.6	43.5
01:00 AM - 02:00 AM	50.0	77.0	43.0
02:00 AM - 03:00 AM	45.6	61.7	42.5
03:00 AM - 04:00 AM	45.2	68.1	43.3
04:00 AM - 05:00 AM	49.1	73.4	44.4
05:00 AM - 06:00 AM	47.5	62.9	44.8
06:00 AM - 07:00 AM	51.5	74.0	47.1
07:00 AM - 08:00 AM	54.1	72.3	50.6
08:00 AM - 09:00 AM	52.6	74.2	47.3
09:00 AM - 10:00 AM	55.0	77.7	47.6
10:00 AM - 11:00 AM	64.3	79.3	60.4
Leq Average 24 hrs. (dB(A))	54.1		
Lmax (dB(A))		87.3	
L90 (dB(A))			46.2
Ldn (dB(A))	57.3		
Standard (dB(A))	70	115	
Reference Method : ISO1996-1 and 1996-2			
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป			
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการโรงงาน พ.ศ. 2548			

Orawan R.

Orawan Rakying  
Scientist (3)

Technical Management

Approved by

Supot Salameh  
Section Head

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



14479-21/ EMAIL

S:\Reports\_Air Noise pr / ( 5.46PM)



Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857934-1

Page 1 of 1

Sample Number 23122965-13

Parameter Noise (Leq 24 hrs.)

Location หมู่ที่ 1 ตำบลบ้านเลน (GPS 47P 670718, 1575775)

Measurement Date Nov 25 - Nov 26, 2023

Measurement by Thananatt Anake

Sound Level meter Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.9	80.5	46.8
12:00 PM - 01:00 PM	50.8	73.5	46.2
01:00 PM - 02:00 PM	50.5	73.8	44.8
02:00 PM - 03:00 PM	50.4	69.7	44.8
03:00 PM - 04:00 PM	52.6	90.8	44.7
04:00 PM - 05:00 PM	51.3	71.3	46.6
05:00 PM - 06:00 PM	53.7	68.7	48.3
06:00 PM - 07:00 PM	51.8	75.8	47.4
07:00 PM - 08:00 PM	57.5	83.4	49.6
08:00 PM - 09:00 PM	54.0	80.0	46.4
09:00 PM - 10:00 PM	50.2	86.2	45.5
10:00 PM - 11:00 PM	49.3	76.3	44.2
11:00 PM - 12:00 AM	47.5	73.8	41.8
12:00 AM - 01:00 AM	43.4	73.6	40.7
01:00 AM - 02:00 AM	47.2	77.0	41.3
02:00 AM - 03:00 AM	44.1	69.5	42.8
03:00 AM - 04:00 AM	43.9	69.3	42.0
04:00 AM - 05:00 AM	48.0	73.1	42.2
05:00 AM - 06:00 AM	45.4	66.7	43.9
06:00 AM - 07:00 AM	54.9	90.0	47.2
07:00 AM - 08:00 AM	52.3	78.8	46.2
08:00 AM - 09:00 AM	52.7	69.6	48.0
09:00 AM - 10:00 AM	60.4	76.9	55.6
10:00 AM - 11:00 AM	58.3	78.6	52.2

Leq Average 24 hrs. (dB(A)) 53.6

Lmax (dB(A)) 90.8

L90 (dB(A)) 45.5

Ldn (dB(A)) 115

Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป

2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ

รายงาน พ.ศ. 2548

Orawan R.

Orawan Rakying  
Scientist (3)

Technical Management

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14479-21/ EMAIL

S:\Reports\_Air Noise pr / ( 5.47PM)



Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122965

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number: 2857935-1

Page 1 of 1

Sample Number 23122965-14

Parameter Noise (Leq 24 hrs.)

Location หมู่ที่ 1 ตำบลบ้านเลน (GPS 47P 670718, 1575775)

Measurement Date Nov 26 - Nov 27, 2023

Measurement by Thananatt Anake

Sound Level meter Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.9	76.4	50.0
12:00 PM - 01:00 PM	52.3	77.5	47.1
01:00 PM - 02:00 PM	49.5	65.5	43.6
02:00 PM - 03:00 PM	48.8	65.4	42.9
03:00 PM - 04:00 PM	50.0	74.0	44.7
04:00 PM - 05:00 PM	53.0	70.6	46.9
05:00 PM - 06:00 PM	51.9	76.3	46.7
06:00 PM - 07:00 PM	52.0	81.3	46.4
07:00 PM - 08:00 PM	55.0	85.8	47.7
08:00 PM - 09:00 PM	51.6	84.5	46.8
09:00 PM - 10:00 PM	50.0	80.4	46.3
10:00 PM - 11:00 PM	47.7	70.7	44.3
11:00 PM - 12:00 AM	46.0	73.1	41.3
12:00 AM - 01:00 AM	50.4	78.8	45.0
01:00 AM - 02:00 AM	46.4	64.4	44.3
02:00 AM - 03:00 AM	45.3	74.8	43.7
03:00 AM - 04:00 AM	48.5	75.1	44.3
04:00 AM - 05:00 AM	48.1	62.2	45.0
05:00 AM - 06:00 AM	50.8	71.6	46.8
06:00 AM - 07:00 AM	51.0	67.6	46.8
07:00 AM - 08:00 AM	55.9	80.1	49.5
08:00 AM - 09:00 AM	59.7	81.4	47.3
09:00 AM - 10:00 AM	52.4	73.9	48.5
10:00 AM - 11:00 AM	49.7	64.8	45.3

Leq Average 24 hrs. (dB(A)) 52.2

Lmax (dB(A)) 85.8

L90 (dB(A)) 46.3

Ldn (dB(A)) 115

Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป

2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ

รายงาน พ.ศ. 2548

Orawan R.

Orawan Rakying  
Scientist (3)

Technical Management

Approved by

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Supot Salamteh  
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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



14479-21/ EMAIL

S:\Reports\_Air Noise pr / ( 5.47PM)



## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124630**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number: 2859193-1C8

Page 1 of 1

<b>Sample Number</b>	23124630-8
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	หน้าศาลาในนิคมทุ่งโพธิ์แดงโครงการ (GPS 47P 672338, 1576199)
<b>Measurement Date</b>	Nov 20 - Nov 21, 2023
<b>Measurement by</b>	Thananat Anake
<b>Sound Level meter</b>	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	51.2	71.1	48.3
11:00 AM - 12:00 PM	51.1	73.8	49.1
12:00 PM - 01:00 PM	51.5	69.0	48.9
01:00 PM - 02:00 PM	50.4	73.4	48.4
02:00 PM - 03:00 PM	51.9	78.5	47.9
03:00 PM - 04:00 PM	50.2	74.2	47.3
04:00 PM - 05:00 PM	50.5	67.1	48.2
05:00 PM - 06:00 PM	52.8	72.8	50.1
06:00 PM - 07:00 PM	60.7	69.4	58.4
07:00 PM - 08:00 PM	61.1	71.1	59.5
08:00 PM - 09:00 PM	60.1	64.4	58.7
09:00 PM - 10:00 PM	58.7	65.3	57.3
10:00 PM - 11:00 PM	55.4	62.1	53.4
11:00 PM - 12:00 AM	54.1	68.0	52.0
12:00 AM - 01:00 AM	55.3	68.7	53.1
01:00 AM - 02:00 AM	55.6	61.9	54.1
02:00 AM - 03:00 AM	55.2	62.2	54.0
03:00 AM - 04:00 AM	54.8	61.1	53.8
04:00 AM - 05:00 AM	54.1	57.4	53.6
05:00 AM - 06:00 AM	55.0	68.0	53.3
06:00 AM - 07:00 AM	53.4	69.3	50.6
07:00 AM - 08:00 AM	54.8	79.7	51.3
08:00 AM - 09:00 AM	51.4	65.9	49.5
09:00 AM - 10:00 AM	51.1	72.9	47.9

Leq Average 24 hrs. (dB(A))	55.5
Lmax (dB(A))	79.7
L90 (dB(A))	51.3
Ldn (dB(A))	61.4
Standard (dB(A))	115

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

**Technical Management**  
Orawan R.  
Orawan Rakying  
Scientist (3)

**Approved by**  
Supt S.  
Supt Salameh  
Section Head

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124630**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number: 2859194-1C8

Page 1 of 1

<b>Sample Number</b>	23124630-9
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	หน้าศาลาในนิคมทุ่งโพธิ์แดงโครงการ (GPS 47P 672338, 1576199)
<b>Measurement Date</b>	Nov 21 - Nov 22, 2023
<b>Measurement by</b>	Thananat Anake
<b>Sound Level meter</b>	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.7	71.2	47.7
11:00 AM - 12:00 PM	50.0	74.6	47.6
12:00 PM - 01:00 PM	49.6	71.1	46.6
01:00 PM - 02:00 PM	48.7	72.1	46.2
02:00 PM - 03:00 PM	48.4	67.4	46.0
03:00 PM - 04:00 PM	49.1	69.2	45.9
04:00 PM - 05:00 PM	49.2	64.3	46.6
05:00 PM - 06:00 PM	51.9	66.5	49.4
06:00 PM - 07:00 PM	61.9	68.3	60.1
07:00 PM - 08:00 PM	65.2	71.9	63.7
08:00 PM - 09:00 PM	63.3	70.6	61.2
09:00 PM - 10:00 PM	63.4	69.3	60.9
10:00 PM - 11:00 PM	61.1	73.2	59.7
11:00 PM - 12:00 AM	60.6	65.0	59.2
12:00 AM - 01:00 AM	60.0	62.8	58.2
01:00 AM - 02:00 AM	58.9	61.8	57.5
02:00 AM - 03:00 AM	57.7	61.5	56.7
03:00 AM - 04:00 AM	53.6	58.6	52.1
04:00 AM - 05:00 AM	52.9	58.6	51.3
05:00 AM - 06:00 AM	57.7	66.4	56.9
06:00 AM - 07:00 AM	50.5	66.8	48.9
07:00 AM - 08:00 AM	52.0	70.3	48.6
08:00 AM - 09:00 AM	50.7	71.5	47.9
09:00 AM - 10:00 AM	49.8	78.7	46.6

Leq Average 24 hrs. (dB(A))	58.3
Lmax (dB(A))	78.7
L90 (dB(A))	49.4
Ldn (dB(A))	64.6
Standard (dB(A))	115

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

**Technical Management**  
Orawan R.  
Orawan Rakying  
Scientist (3)

**Approved by**  
Supt S.  
Supt Salameh  
Section Head

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Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O : GBL-4210700543  
Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23124630  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number: 2859195-1C8

Page 1 of 1

Sample Number	23124630-10
Parameter	Noise (Leq 24 hrs.)
Location	ร้านค้าภายในศูนย์ใกล้เสียงโครงการ (GPS 479 672338, 1576199)
Measurement Date	Nov 22 - Nov 23, 2023
Measurement by	Thananat Anake
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.2	69.9	45.7
11:00 AM - 12:00 PM	49.9	72.7	45.8
12:00 PM - 01:00 PM	47.6	61.9	45.5
01:00 PM - 02:00 PM	51.0	77.2	45.8
02:00 PM - 03:00 PM	48.9	69.0	45.9
03:00 PM - 04:00 PM	50.7	76.3	46.3
04:00 PM - 05:00 PM	51.4	68.0	46.1
05:00 PM - 06:00 PM	54.3	70.3	50.6
06:00 PM - 07:00 PM	57.0	69.9	54.8
07:00 PM - 08:00 PM	60.7	70.9	59.2
08:00 PM - 09:00 PM	58.6	73.5	57.2
09:00 PM - 10:00 PM	58.6	67.2	56.9
10:00 PM - 11:00 PM	57.4	65.5	55.5
11:00 PM - 12:00 AM	55.4	66.2	54.2
12:00 AM - 01:00 AM	52.1	60.2	50.4
01:00 AM - 02:00 AM	51.7	56.7	50.4
02:00 AM - 03:00 AM	53.1	59.4	51.1
03:00 AM - 04:00 AM	53.7	60.2	52.3
04:00 AM - 05:00 AM	54.7	61.4	53.4
05:00 AM - 06:00 AM	55.1	60.0	54.0
06:00 AM - 07:00 AM	52.8	65.6	51.2
07:00 AM - 08:00 AM	53.9	78.3	51.1
08:00 AM - 09:00 AM	52.4	76.9	50.4
09:00 AM - 10:00 AM	51.0	70.3	48.9

Leq Average 24 hrs. (dB(A))	54.7
Lmax (dB(A))	78.3
L90 (dB(A))	50.6
Ldn (dB(A))	
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป  
2. ประกาศกระทรวงสาธารณสุข เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่คิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Technical Management**  
Orawan R.  
Orawan Rakying  
Scientist (3)

**Approved by**  
Supt S.  
Supt Salameh  
Section Head

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Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O : GBL-4210700543  
Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23124630  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number: 2859196-1C8

Page 1 of 1

Sample Number	23124630-11
Parameter	Noise (Leq 24 hrs.)
Location	ร้านค้าภายในศูนย์ใกล้เสียงโครงการ (GPS 479 672338, 1576199)
Measurement Date	Nov 23 - Nov 24, 2023
Measurement by	Thananat Anake
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.9	72.1	47.3
11:00 AM - 12:00 PM	49.2	68.9	46.4
12:00 PM - 01:00 PM	47.4	66.7	45.8
01:00 PM - 02:00 PM	51.7	80.3	45.9
02:00 PM - 03:00 PM	48.6	71.7	45.8
03:00 PM - 04:00 PM	47.9	65.9	46.0
04:00 PM - 05:00 PM	52.7	76.7	46.3
05:00 PM - 06:00 PM	53.4	74.4	49.7
06:00 PM - 07:00 PM	59.5	69.1	56.8
07:00 PM - 08:00 PM	61.7	68.9	60.8
08:00 PM - 09:00 PM	60.5	72.5	59.7
09:00 PM - 10:00 PM	59.7	66.3	58.8
10:00 PM - 11:00 PM	59.0	65.9	58.3
11:00 PM - 12:00 AM	58.0	62.5	57.2
12:00 AM - 01:00 AM	57.8	60.4	56.9
01:00 AM - 02:00 AM	57.1	60.0	56.3
02:00 AM - 03:00 AM	57.3	61.0	56.4
03:00 AM - 04:00 AM	56.8	64.6	55.7
04:00 AM - 05:00 AM	55.4	60.7	54.4
05:00 AM - 06:00 AM	57.7	67.2	57.0
06:00 AM - 07:00 AM	55.6	68.4	54.1
07:00 AM - 08:00 AM	54.3	76.9	51.6
08:00 AM - 09:00 AM	53.8	75.8	51.0
09:00 AM - 10:00 AM	51.8	73.2	49.6

Leq Average 24 hrs. (dB(A))	56.6
Lmax (dB(A))	80.3
L90 (dB(A))	
Ldn (dB(A))	63.6
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป  
2. ประกาศกระทรวงสาธารณสุข เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่คิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Technical Management**  
Orawan R.  
Orawan Rakying  
Scientist (3)

**Approved by**  
Supt S.  
Supt Salameh  
Section Head

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124630**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number: 2859197-1C8

Page 1 of 1

<b>Sample Number</b>	23124630-12
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	หน้าด่านขบวนรถไฟใต้ดินโครงการ (GPS 479 672338, 1576199)
<b>Measurement Date</b>	Nov 24 - Nov 25, 2023
<b>Measurement by</b>	Thananat Anake
<b>Sound Level meter</b>	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.7	72.2	48.4
11:00 AM - 12:00 PM	49.4	69.9	47.2
12:00 PM - 01:00 PM	48.9	68.9	46.2
01:00 PM - 02:00 PM	47.9	66.4	45.8
02:00 PM - 03:00 PM	51.3	76.1	46.6
03:00 PM - 04:00 PM	48.0	63.5	46.7
04:00 PM - 05:00 PM	49.7	67.5	47.5
05:00 PM - 06:00 PM	53.3	66.0	50.5
06:00 PM - 07:00 PM	57.8	67.7	55.1
07:00 PM - 08:00 PM	61.8	72.4	59.8
08:00 PM - 09:00 PM	60.7	69.4	59.8
09:00 PM - 10:00 PM	61.0	68.7	60.1
10:00 PM - 11:00 PM	58.7	68.7	58.7
11:00 PM - 12:00 AM	58.7	67.3	57.5
12:00 AM - 01:00 AM	58.6	66.6	56.9
01:00 AM - 02:00 AM	56.5	62.7	54.7
02:00 AM - 03:00 AM	58.3	61.6	56.8
03:00 AM - 04:00 AM	58.1	61.5	56.6
04:00 AM - 05:00 AM	57.9	85.3	50.3
05:00 AM - 06:00 AM	58.4	80.3	51.3
06:00 AM - 07:00 AM	59.8	86.5	52.5
07:00 AM - 08:00 AM	56.4	81.3	52.3
08:00 AM - 09:00 AM	53.9	75.1	52.2
09:00 AM - 10:00 AM	52.2	75.8	48.8

Leq Average 24 hrs. (dB(A))	57.3
Lmax (dB(A))	86.5
L90 (dB(A))	52.2
Ldn (dB(A))	64.7
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป  
2. ประกาศกระทรวงสาธารณสุข เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่คิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Technical Management**  
Orawan R.  
Orawan Rakying  
Scientist (3)

**Approved by**  
Supt 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.



## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23124630**  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number: 2859198-1C8

Page 1 of 1

<b>Sample Number</b>	23124630-13
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	หน้าด่านขบวนรถไฟใต้ดินโครงการ (GPS 479 672338, 1576199)
<b>Measurement Date</b>	Nov 25 - Nov 26, 2023
<b>Measurement by</b>	Thananat Anake
<b>Sound Level meter</b>	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.6	66.0	48.7
11:00 AM - 12:00 PM	49.6	66.2	47.5
12:00 PM - 01:00 PM	49.3	68.7	47.3
01:00 PM - 02:00 PM	49.8	67.6	47.8
02:00 PM - 03:00 PM	52.0	75.2	48.3
03:00 PM - 04:00 PM	56.9	81.1	48.8
04:00 PM - 05:00 PM	57.1	94.0	49.2
05:00 PM - 06:00 PM	54.9	68.7	51.7
06:00 PM - 07:00 PM	59.4	70.7	55.8
07:00 PM - 08:00 PM	60.7	67.0	59.6
08:00 PM - 09:00 PM	60.2	67.2	58.3
09:00 PM - 10:00 PM	59.9	67.9	56.9
10:00 PM - 11:00 PM	58.0	64.1	56.1
11:00 PM - 12:00 AM	55.6	62.2	54.0
12:00 AM - 01:00 AM	55.5	65.9	52.6
01:00 AM - 02:00 AM	58.1	62.7	56.5
02:00 AM - 03:00 AM	57.0	61.2	55.2
03:00 AM - 04:00 AM	56.5	61.4	55.0
04:00 AM - 05:00 AM	54.3	58.8	53.5
05:00 AM - 06:00 AM	54.4	59.9	53.2
06:00 AM - 07:00 AM	53.8	63.5	51.5
07:00 AM - 08:00 AM	52.6	69.1	49.7
08:00 AM - 09:00 AM	51.6	72.9	48.0
09:00 AM - 10:00 AM	51.0	78.8	47.7

Leq Average 24 hrs. (dB(A))	56.2
Lmax (dB(A))	94.0
L90 (dB(A))	51.7
Ldn (dB(A))	62.6
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป  
2. ประกาศกระทรวงสาธารณสุข เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่คิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Technical Management**  
Orawan R.  
Orawan Rakying  
Scientist (3)

**Approved by**  
Supt 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.



Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O : GBL-4210700543  
Date Received : Nov 29, 2023  
Date Reported : Dec 08, 2023  
Report Number: 2859199-L08  
Project Name : Monitoring EIA  
Project Location : GBL

Page 1 of 1

Sample Number	23124630-14
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่ด้านทิศใต้ของโครงการ (GPS 47P 672338, 1576199)
Measurement Date	Nov 26 - Nov 27, 2023
Measurement by	Thananant Anake
Sound Level meter	Serial No. 1022262

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.0	64.8	47.2
11:00 AM - 12:00 PM	50.9	76.8	47.0
12:00 PM - 01:00 PM	48.7	66.1	46.6
01:00 PM - 02:00 PM	47.6	71.5	45.8
02:00 PM - 03:00 PM	46.7	63.1	45.1
03:00 PM - 04:00 PM	47.7	70.1	45.8
04:00 PM - 05:00 PM	48.2	69.7	46.1
05:00 PM - 06:00 PM	49.4	68.7	47.1
06:00 PM - 07:00 PM	59.1	68.5	56.9
07:00 PM - 08:00 PM	62.4	68.5	60.5
08:00 PM - 09:00 PM	61.3	74.5	58.7
09:00 PM - 10:00 PM	60.9	67.4	58.5
10:00 PM - 11:00 PM	57.6	53.7	50.1
11:00 PM - 12:00 AM	59.5	67.0	54.0
12:00 AM - 01:00 AM	53.8	62.9	50.1
01:00 AM - 02:00 AM	53.1	61.1	50.2
02:00 AM - 03:00 AM	52.8	60.1	51.0
03:00 AM - 04:00 AM	52.3	58.2	51.1
04:00 AM - 05:00 AM	53.4	58.4	52.2
05:00 AM - 06:00 AM	54.6	66.5	53.0
06:00 AM - 07:00 AM	57.2	68.9	53.0
07:00 AM - 08:00 AM	56.5	77.6	52.3
08:00 AM - 09:00 AM	53.7	80.3	50.7
09:00 AM - 10:00 AM	52.2	67.6	50.1

Leq Average 24 hrs. (dB(A))	56.1
Lmax (dB(A))	80.3
L90 (dB(A))	
Ldn (dB(A))	62.2
Standard (dB(A))	70
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทางกายภาพ	
2. ประกาศกระทรวงสาธารณสุข เรื่องกำหนดระดับเสียงที่คิดจากการประกอบกิจการโรงงาน พ.ศ. 2548	

Orawan R.  
Drawan Rakong  
Scientist (3)

Approved by

Supot Salameth  
Section Head

Technical Management

Approved by

Supot Salameth  
Section Head

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Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O : 4210701597  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853663-1  
Project Name : Monitoring EIA  
Project Location : GBL

Page 1 of 3

Sample Number	23122968-1
Parameter	Noise Level (Leq 5 min)
Location	พื้นที่ด้านทิศใต้ของโครงการ (GPS 47P 0671368, 1576143)
Measurement Date	Nov 20 - Nov 21, 2023
Measurement by	Thananant Anake
Sound Level meter	Serial No. 00572552

Nov 20, 2023 Time	Leq dB(A)	L90 dB(A)	Nov 20, 2023 Time	Leq dB(A)	L90 dB(A)
03:00 PM - 03:05 PM	58.3	57.0	05:40 PM - 05:45 PM	61.8	61.1
03:05 PM - 03:10 PM	58.2	57.3	05:45 PM - 05:50 PM	61.2	60.5
03:10 PM - 03:15 PM	58.4	57.3	05:50 PM - 05:55 PM	60.6	59.6
03:15 PM - 03:20 PM	57.9	57.1	05:55 PM - 06:00 PM	59.7	59.0
03:20 PM - 03:25 PM	57.6	57.1	06:00 PM - 06:05 PM	59.1	58.5
03:25 PM - 03:30 PM	58.2	57.3	06:05 PM - 06:10 PM	59.0	57.9
03:30 PM - 03:35 PM	58.1	57.3	06:10 PM - 06:15 PM	58.3	57.7
03:35 PM - 03:40 PM	58.8	57.8	06:15 PM - 06:20 PM	57.8	57.4
03:40 PM - 03:45 PM	58.0	57.3	06:20 PM - 06:25 PM	57.9	57.4
03:45 PM - 03:50 PM	58.7	57.7	06:25 PM - 06:30 PM	58.1	57.4
03:50 PM - 03:55 PM	57.9	57.4	06:30 PM - 06:35 PM	58.4	57.5
03:55 PM - 04:00 PM	58.1	57.4	06:35 PM - 06:40 PM	58.2	57.2
04:00 PM - 04:05 PM	58.3	57.5	06:40 PM - 06:45 PM	57.9	57.2
04:05 PM - 04:10 PM	58.0	57.3	06:45 PM - 06:50 PM	58.2	56.9
04:10 PM - 04:15 PM	58.3	57.7	06:50 PM - 06:55 PM	57.1	56.4
04:15 PM - 04:20 PM	57.9	57.3	06:55 PM - 07:00 PM	57.1	56.3
04:20 PM - 04:25 PM	58.8	57.5	07:00 PM - 07:05 PM	56.9	56.3
04:25 PM - 04:30 PM	58.2	57.7	07:05 PM - 07:10 PM	56.6	56.1
04:30 PM - 04:35 PM	58.6	57.7	07:10 PM - 07:15 PM	56.8	56.3
04:35 PM - 04:40 PM	58.3	57.6	07:15 PM - 07:20 PM	57.5	56.4
04:40 PM - 04:45 PM	58.1	57.4	07:20 PM - 07:25 PM	57.3	56.8
04:45 PM - 04:50 PM	58.3	57.6	07:25 PM - 07:30 PM	58.1	57.0
04:50 PM - 04:55 PM	59.3	58.2	07:30 PM - 07:35 PM	57.9	57.2
04:55 PM - 05:00 PM	59.4	58.3	07:35 PM - 07:40 PM	58.9	57.7
05:00 PM - 05:05 PM	59.3	57.9	07:40 PM - 07:45 PM	60.4	58.3
05:05 PM - 05:10 PM	59.0	57.9	07:45 PM - 07:50 PM	58.2	56.4
05:10 PM - 05:15 PM	58.6	57.7	07:50 PM - 07:55 PM	59.5	56.6
05:15 PM - 05:20 PM	59.3	57.9	07:55 PM - 08:00 PM	57.5	57.0
05:20 PM - 05:25 PM	60.1	58.1	08:00 PM - 08:05 PM	57.5	56.9
05:25 PM - 05:30 PM	60.8	59.5	08:05 PM - 08:10 PM	57.3	56.9
05:30 PM - 05:35 PM	61.1	60.0	08:10 PM - 08:15 PM	58.3	57.2
05:35 PM - 05:40 PM	62.0	60.8	08:15 PM - 08:20 PM	57.5	57.0

Nov 20, 2023 Time	Leq dB(A)	L90 dB(A)
08:20 PM - 08:25 PM	57.5	57.0
08:25 PM - 08:30 PM	57.4	57.1
08:30 PM - 08:35 PM	57.6	57.0
08:35 PM - 08:40 PM	57.4	57.0
08:40 PM - 08:45 PM	57.6	57.1
08:45 PM - 08:50 PM	57.5	57.1
08:50 PM - 08:55 PM	57.7	56.6
08:55 PM - 09:00 PM	57.3	56.3
09:00 PM - 09:05 PM	56.8	56.3
09:05 PM - 09:10 PM	56.7	56.2
09:10 PM - 09:15 PM	56.8	56.2
09:15 PM - 09:20 PM	57.4	56.3
09:20 PM - 09:25 PM	56.8	56.3
09:25 PM - 09:30 PM	56.9	56.4
09:30 PM - 09:35 PM	56.8	56.3
09:35 PM - 09:40 PM	56.7	56.2
09:40 PM - 09:45 PM	57.7	56.4
09:45 PM - 09:50 PM	56.6	56.1
09:50 PM - 09:55 PM	56.7	56.0
09:55 PM - 10:00 PM	56.9	56.2
10:00 PM - 10:05 PM	57.0	56.2
10:05 PM - 10:10 PM	56.9	56.2
10:10 PM - 10:15 PM	57.3	56.2
10:15 PM - 10:20 PM	56.6	56.2
10:20 PM - 10:25 PM	56.4	56.0
10:25 PM - 10:30 PM	56.5	56.0
10:30 PM - 10:35 PM	56.4	55.9
10:35 PM - 10:40 PM	56.4	55.9
10:40 PM - 10:45 PM	56.5	55.9
10:45 PM - 10:50 PM	56.3	55.9
10:50 PM - 10:55 PM	56.4	55.8
10:55 PM - 11:00 PM	57.3	56.4

Approved by

Saranyuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853663-1

Page 2 of 3

Sample Number		23122968-1	
Parameter		Noise Level (Leq 5 min)	
Location		บริเวณด้านหน้าอาคาร (GPS 47P 0671368, 1576143)	
Measurement Date		Nov 20 - Nov 21, 2023	
Measurement by		Thananart Anake	
Sound Level meter		Serial No. 00572552	
Nov 20 - Nov 21, 2023	Leq dB(A)	Nov 21, 2023 Time	L90 dB(A)
11:00 PM - 11:05 PM	58.5	01:40 AM - 01:45 AM	56.7
11:05 PM - 11:10 PM	56.1	01:45 AM - 01:50 AM	57.9
11:10 PM - 11:15 PM	56.5	01:50 AM - 01:55 AM	57.8
11:15 PM - 11:20 PM	56.5	01:55 AM - 02:00 AM	57.3
11:20 PM - 11:25 PM	56.5	02:00 AM - 02:05 AM	56.7
11:25 PM - 11:30 PM	56.6	02:05 AM - 02:10 AM	56.5
11:30 PM - 11:35 PM	57.4	02:10 AM - 02:15 AM	56.4
11:35 PM - 11:40 PM	56.9	02:15 AM - 02:20 AM	56.3
11:40 PM - 11:45 PM	57.2	02:20 AM - 02:25 AM	56.2
11:45 PM - 11:50 PM	57.0	02:25 AM - 02:30 AM	56.4
11:50 PM - 11:55 PM	56.2	02:30 AM - 02:35 AM	56.4
11:55 PM - 12:00 AM	56.4	02:35 AM - 02:40 AM	56.4
12:00 AM - 12:05 AM	56.2	02:40 AM - 02:45 AM	56.4
12:05 AM - 12:10 AM	56.9	02:45 AM - 02:50 AM	56.3
12:10 AM - 12:15 AM	56.9	02:50 AM - 02:55 AM	56.7
12:15 AM - 12:20 AM	57.9	02:55 AM - 03:00 AM	56.6
12:20 AM - 12:25 AM	56.6	03:00 AM - 03:05 AM	56.5
12:25 AM - 12:30 AM	56.0	03:05 AM - 03:10 AM	56.5
12:30 AM - 12:35 AM	56.1	03:10 AM - 03:15 AM	56.4
12:35 AM - 12:40 AM	56.1	03:15 AM - 03:20 AM	56.6
12:40 AM - 12:45 AM	56.2	03:20 AM - 03:25 AM	56.3
12:45 AM - 12:50 AM	56.3	03:25 AM - 03:30 AM	56.4
12:50 AM - 12:55 AM	56.4	03:30 AM - 03:35 AM	56.4
12:55 AM - 01:00 AM	56.2	03:35 AM - 03:40 AM	56.6
01:00 AM - 01:05 AM	56.2	03:40 AM - 03:45 AM	56.4
01:05 AM - 01:10 AM	56.3	03:45 AM - 03:50 AM	56.7
01:10 AM - 01:15 AM	56.5	03:50 AM - 03:55 AM	56.7
01:15 AM - 01:20 AM	56.5	03:55 AM - 04:00 AM	56.3
01:20 AM - 01:25 AM	56.5	04:00 AM - 04:05 AM	56.3
01:25 AM - 01:30 AM	56.6	04:05 AM - 04:10 AM	56.3
01:30 AM - 01:35 AM	57.8	04:10 AM - 04:15 AM	56.3
01:35 AM - 01:40 AM	56.7	04:15 AM - 04:20 AM	55.8

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Approved by

Sariyuth Jitranont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853663-1

Page 3 of 3

Sample Number		23122968-1	
Parameter		Noise Level (Leq 5 min)	
Location		บริเวณด้านหน้าอาคาร (GPS 47P 0671368, 1576143)	
Measurement Date		Nov 20 - Nov 21, 2023	
Measurement by		Thananart Anake	
Sound Level meter		Serial No. 00572552	
Nov 21, 2023	Leq dB(A)	Nov 21, 2023 Time	L90 dB(A)
07:00 AM - 07:05 AM	59.5	09:40 AM - 09:45 AM	57.2
07:05 AM - 07:10 AM	59.6	09:45 AM - 09:50 AM	57.6
07:10 AM - 07:15 AM	59.8	09:50 AM - 09:55 AM	57.9
07:15 AM - 07:20 AM	59.6	09:55 AM - 10:00 AM	57.9
07:20 AM - 07:25 AM	58.1	10:00 AM - 10:05 AM	58.1
07:25 AM - 07:30 AM	58.3	10:05 AM - 10:10 AM	57.5
07:30 AM - 07:35 AM	58.2	10:10 AM - 10:15 AM	57.8
07:35 AM - 07:40 AM	59.5	10:15 AM - 10:20 AM	58.0
07:40 AM - 07:45 AM	57.6	10:20 AM - 10:25 AM	58.0
07:45 AM - 07:50 AM	57.8	10:25 AM - 10:30 AM	57.7
07:50 AM - 07:55 AM	58.5	10:30 AM - 10:35 AM	57.7
07:55 AM - 08:00 AM	57.7	10:35 AM - 10:40 AM	57.8
08:00 AM - 08:05 AM	58.1	10:40 AM - 10:45 AM	57.7
08:05 AM - 08:10 AM	58.3	10:45 AM - 10:50 AM	57.6
08:10 AM - 08:15 AM	58.4	10:50 AM - 10:55 AM	57.7
08:15 AM - 08:20 AM	58.6	10:55 AM - 11:00 AM	57.9
08:20 AM - 08:25 AM	58.6	11:00 AM - 11:05 AM	57.9
08:25 AM - 08:30 AM	58.5	11:05 AM - 11:10 AM	57.8
08:30 AM - 08:35 AM	58.9	11:10 AM - 11:15 AM	57.3
08:35 AM - 08:40 AM	58.7	11:15 AM - 11:20 AM	57.9
08:40 AM - 08:45 AM	58.6	11:20 AM - 11:25 AM	57.6
08:45 AM - 08:50 AM	58.2	11:25 AM - 11:30 AM	57.5
08:50 AM - 08:55 AM	58.6	11:30 AM - 11:35 AM	58.1
08:55 AM - 09:00 AM	58.3	11:35 AM - 11:40 AM	61.4
09:00 AM - 09:05 AM	58.6	11:40 AM - 11:45 AM	60.3
09:05 AM - 09:10 AM	58.7	11:45 AM - 11:50 AM	60.5
09:10 AM - 09:15 AM	58.6	11:50 AM - 11:55 AM	59.9
09:15 AM - 09:20 AM	58.4	11:55 AM - 12:00 PM	58.3
09:20 AM - 09:25 AM	58.3	12:00 PM - 12:05 PM	58.4
09:25 AM - 09:30 AM	58.2	12:05 PM - 12:10 PM	58.0
09:30 AM - 09:35 AM	58.0	12:10 PM - 12:15 PM	57.7
09:35 AM - 09:40 AM	58.1	12:15 PM - 12:20 PM	57.5

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Approved by

Sariyuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853664-1

Page 1 of 2

Sample Number		23122968-2									
Parameter		Noise Level (Leq 5 min)									
Location		ขั้ววัดค่าเสียงต่อเนื่อง (GPS 47P 0671368, 1576143)									
Measurement Date		Nov 21 - Nov 22, 2023									
Measurement by		Thanat Anake									
Sound Level meter		Serial No. 00572552									
Nov 21, 2023	Time	Leq dB(A)	L90 dB(A)	Nov 21, 2023	Time	Leq dB(A)	L90 dB(A)	Nov 21, 2023	Time	Leq dB(A)	L90 dB(A)
	03:00 PM - 03:05 PM	57.6	56.7	05:40 PM - 05:45 PM	64.6	61.0	57.0	08:20 PM - 08:25 PM	57.0	56.6	56.6
	03:05 PM - 03:10 PM	57.7	56.9	05:45 PM - 05:50 PM	61.4	62.0	57.0	08:25 PM - 08:30 PM	57.0	56.6	56.6
	03:10 PM - 03:15 PM	57.6	56.9	05:50 PM - 05:55 PM	61.4	60.6	56.9	08:30 PM - 08:35 PM	56.9	56.5	56.5
	03:15 PM - 03:20 PM	59.8	57.7	05:55 PM - 06:00 PM	60.4	59.9	56.9	08:35 PM - 08:40 PM	56.9	56.5	56.5
	03:20 PM - 03:25 PM	58.8	57.6	06:00 PM - 06:05 PM	59.7	59.1	57.1	08:40 PM - 08:45 PM	57.1	56.6	56.6
	03:25 PM - 03:30 PM	58.0	57.3	06:05 PM - 06:10 PM	59.8	59.0	57.4	08:45 PM - 08:50 PM	57.4	57.0	57.0
	03:30 PM - 03:35 PM	57.8	57.2	06:10 PM - 06:15 PM	59.3	58.8	57.5	08:50 PM - 08:55 PM	57.5	56.8	56.8
	03:35 PM - 03:40 PM	57.7	56.9	06:15 PM - 06:20 PM	59.3	58.6	57.3	08:55 PM - 09:00 PM	57.3	56.3	56.3
	03:40 PM - 03:45 PM	58.3	57.4	06:20 PM - 06:25 PM	58.7	58.3	56.8	09:00 PM - 09:05 PM	56.8	56.1	56.1
	03:45 PM - 03:50 PM	57.9	57.2	06:25 PM - 06:30 PM	58.3	57.8	56.8	09:05 PM - 09:10 PM	56.8	56.4	56.4
	03:50 PM - 03:55 PM	57.9	57.2	06:30 PM - 06:35 PM	59.9	58.0	56.7	09:10 PM - 09:15 PM	56.7	56.1	56.1
	03:55 PM - 04:00 PM	58.2	57.2	06:35 PM - 06:40 PM	59.9	58.3	56.5	09:15 PM - 09:20 PM	56.5	56.1	56.1
	04:00 PM - 04:05 PM	58.3	57.3	06:40 PM - 06:45 PM	60.3	59.1	56.2	09:20 PM - 09:25 PM	56.2	56.6	56.2
	04:05 PM - 04:10 PM	59.5	58.5	06:45 PM - 06:50 PM	60.5	58.9	56.5	09:25 PM - 09:30 PM	56.5	56.0	56.0
	04:10 PM - 04:15 PM	58.2	57.2	06:50 PM - 06:55 PM	60.2	58.5	56.3	09:30 PM - 09:35 PM	56.3	55.9	55.9
	04:15 PM - 04:20 PM	57.8	57.3	06:55 PM - 07:00 PM	60.0	58.9	56.3	09:35 PM - 09:40 PM	57.4	56.2	56.2
	04:20 PM - 04:25 PM	57.6	57.1	07:00 PM - 07:05 PM	59.6	58.1	56.6	09:40 PM - 09:45 PM	56.6	56.1	56.1
	04:25 PM - 04:30 PM	57.6	56.9	07:05 PM - 07:10 PM	58.9	57.9	56.7	09:45 PM - 09:50 PM	56.7	56.1	56.1
	04:30 PM - 04:35 PM	58.4	57.3	07:10 PM - 07:15 PM	59.5	58.3	56.6	09:50 PM - 09:55 PM	56.6	56.1	56.1
	04:35 PM - 04:40 PM	57.6	57.0	07:15 PM - 07:20 PM	57.9	56.5	56.5	09:55 PM - 10:00 PM	56.6	55.9	55.9
	04:40 PM - 04:45 PM	57.7	57.1	07:20 PM - 07:25 PM	56.9	56.2	56.3	10:00 PM - 10:05 PM	56.3	56.0	56.0
	04:45 PM - 04:50 PM	57.8	57.3	07:25 PM - 07:30 PM	57.3	56.8	56.1	10:05 PM - 10:10 PM	56.1	55.8	55.8
	04:50 PM - 04:55 PM	58.0	57.2	07:30 PM - 07:35 PM	57.6	57.0	57.0	10:10 PM - 10:15 PM	57.0	55.9	55.9
	04:55 PM - 05:00 PM	57.9	57.5	07:35 PM - 07:40 PM	57.9	57.2	56.4	10:15 PM - 10:20 PM	56.4	55.9	55.9
	05:00 PM - 05:05 PM	57.8	57.4	07:40 PM - 07:45 PM	58.8	57.6	56.7	10:20 PM - 10:25 PM	56.7	56.0	56.0
	05:05 PM - 05:10 PM	58.2	57.6	07:45 PM - 07:50 PM	59.5	56.3	56.5	10:25 PM - 10:30 PM	56.5	55.9	55.9
	05:10 PM - 05:15 PM	59.1	57.6	07:50 PM - 07:55 PM	58.3	56.3	56.8	10:30 PM - 10:35 PM	56.8	56.1	56.1
	05:15 PM - 05:20 PM	58.0	57.5	07:55 PM - 08:00 PM	57.0	56.6	57.2	10:35 PM - 10:40 PM	57.2	56.3	56.3
	05:20 PM - 05:25 PM	58.5	57.7	08:00 PM - 08:05 PM	57.9	56.6	57.8	10:40 PM - 10:45 PM	57.8	56.3	56.3
	05:25 PM - 05:30 PM	60.5	59.2	08:05 PM - 08:10 PM	58.3	56.7	57.6	10:45 PM - 10:50 PM	57.6	55.9	55.9
	05:30 PM - 05:35 PM	61.9	60.6	08:10 PM - 08:15 PM	57.2	56.6	56.3	10:50 PM - 10:55 PM	56.3	55.6	55.6
	05:35 PM - 05:40 PM	61.5	60.0	08:15 PM - 08:20 PM	57.1	56.6	56.5	10:55 PM - 11:00 PM	56.5	55.6	55.6

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Approved by

Sarayuth Jitranont  
Assistant General Manager

Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853664-1

Page 2 of 3

Sample Number		23122968-2									
Location		Noise Level (Leq 5 min)									
Measurement Date		ขั้ววัดค่าเสียงต่อเนื่อง (GPS 47P 0671368, 1576143)									
Measurement by		Nov 21 - Nov 22, 2023									
Sound Level meter		Thanaat Anake									
		Serial No. 00572552									
Nov 21 - Nov 22, 2023		Leq dB(A)	L90 dB(A)	Nov 22, 2023		Leq dB(A)	L90 dB(A)	Nov 22, 2023		Leq dB(A)	L90 dB(A)
	11:00 PM - 11:05 PM	58.6	56.7	01:40 AM - 01:45 AM	55.7	55.0	04:20 AM - 04:25 AM	55.6	55.2		
	11:05 PM - 11:10 PM	57.5	54.4	01:45 AM - 01:50 AM	55.5	54.9	04:25 AM - 04:30 AM	55.6	55.2		
	11:10 PM - 11:15 PM	56.0	55.0	01:50 AM - 01:55 AM	55.3	54.8	04:30 AM - 04:35 AM	55.9	55.4		
	11:15 PM - 11:20 PM	55.8	54.9	01:55 AM - 02:00 AM	55.5	55.0	04:35 AM - 04:40 AM	55.8	55.3		
	11:20 PM - 11:25 PM	55.4	54.7	02:00 AM - 02:05 AM	55.6	54.9	04:40 AM - 04:45 AM	55.7	55.3		
	11:25 PM - 11:30 PM	55.5	54.7	02:05 AM - 02:10 AM	55.7	55.1	04:45 AM - 04:50 AM	56.4	55.4		
	11:30 PM - 11:35 PM	55.4	54.7	02:10 AM - 02:15 AM	55.6	55.1	04:50 AM - 04:55 AM	57.2	56.2		
	11:35 PM - 11:40 PM	55.4	54.7	02:15 AM - 02:20 AM	55.6	55.0	04:55 AM - 05:00 AM	57.4	56.3		
	11:40 PM - 11:45 PM	54.9	54.5	02:20 AM - 02:25 AM	55.7	55.0	05:00 AM - 05:05 AM	62.8	58.8		
	11:45 PM - 11:50 PM	55.0	54.6	02:25 AM - 02:30 AM	55.5	54.9	05:05 AM - 05:10 AM	63.0	59.4		
	11:50 PM - 11:55 PM	55.1	54.7	02:30 AM - 02:35 AM	55.5	54.9	05:10 AM - 05:15 AM	65.6	62.9		
	11:55 PM - 12:00 AM	55.2	54.8	02:35 AM - 02:40 AM	55.5	54.9	05:15 AM - 05:20 AM	64.6	61.8		
	12:00 AM - 12:05 AM	55.2	54.7	02:40 AM - 02:45 AM	55.5	54.9	05:20 AM - 05:25 AM	64.9	62.2		
	12:05 AM - 12:10 AM	55.2	54.8	02:45 AM - 02:50 AM	55.1	54.7	05:25 AM - 05:30 AM	64.9	62.6		
	12:10 AM - 12:15 AM	55.1	54.6	02:50 AM - 02:55 AM	55.2	54.8	05:30 AM - 05:35 AM	66.1	63.5		
	12:15 AM - 12:20 AM	54.9	54.5	02:55 AM - 03:00 AM	55.3	54.8	05:35 AM - 05:40 AM	66.2	63.9		
	12:20 AM - 12:25 AM	55.1	54.7	03:00 AM - 03:05 AM	55.4	54.9	05:40 AM - 05:45 AM	65.7	63.6		
	12:25 AM - 12:30 AM	55.4	54.7	03:05 AM - 03:10 AM	55.2	54.8	05:45 AM - 05:50 AM	65.6	63.5		
	12:30 AM - 12:35 AM	55.1	54.7	03:10 AM - 03:15 AM	55.3	54.9	05:50 AM - 05:55 AM	65.5	63.1		
	12:35 AM - 12:40 AM	55.1	54.7	03:15 AM - 03:20 AM	55.2	54.8	05:55 AM - 06:00 AM	62.6	59.2		
	12:40 AM - 12:45 AM	55.2	54.8	03:20 AM - 03:25 AM	55.4	54.9	06:00 AM - 06:05 AM	61.7	60.0		
	12:45 AM - 12:50 AM	55.1	54.7	03:25 AM - 03:30 AM	55.1	54.8	06:05 AM - 06:10 AM	60.2	57.9		
	12:50 AM - 12:55 AM	56.3	54.8	03:30 AM - 03:35 AM	55.2	54.8	06:10 AM - 06:15 AM	57.4	56.0		
	12:55 AM - 01:00 AM	55.4	54.8	03:35 AM - 03:40 AM	55.4	54.9	06:15 AM - 06:20 AM	56.4	55.5		
	01:00 AM - 01:05 AM	56.1	55.0	03:40 AM - 03:45 AM	55.2	54.8	06:20 AM - 06:25 AM	56.2	55.3		
	01:05 AM - 01:10 AM	55.8	55.0	03:45 AM - 03:50 AM	55.5	54.9	06:25 AM - 06:30 AM	57.0	56.1		
	01:10 AM - 01:15 AM	55.9	55.1	03:50 AM - 03:55 AM	55.3	54.9	06:30 AM - 06:35 AM	58.5	56.6		
	01:15 AM - 01:20 AM	55.7	55.0	03:55 AM - 04:00 AM	55.6	55.0	06:35 AM - 06:40 AM	59.1	57.2		
	01:20 AM - 01:25 AM	55.6	55.0	04:00 AM - 04:05 AM	55.5	55.1	06:40 AM - 06:45 AM	58.2	56.8		
	01:25 AM - 01:30 AM	55.7	55.1	04:05 AM - 04:10 AM	55.5	55.0	06:45 AM - 06:50 AM	58.5	57.3		
	01:30 AM - 01:35 AM	55.4	54.9	04:10 AM - 04:15 AM	55.6	55.1	06:50 AM - 06:55 AM	59.8	57.2		
	01:35 AM - 01:40 AM	55.3	54.8	04:15 AM - 04:20 AM	55.9	55.2	06:55 AM - 07:00 AM	61.5	59.2		

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**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853664-1

Page 3 of 3

Sample Number		23122968-2		Noise Level (Leq 5 min)		Nov 21 - Nov 22, 2023		Thananat Anake		Serial No. 00572552	
Parameter		Nov 22, 2023		Time		Leq		dB(A)		L90	
Location		Nov 22, 2023		Time		Leq		dB(A)		L90	
Measurement Date		Nov 22, 2023		Time		Leq		dB(A)		L90	
Sound Level meter		Nov 22, 2023		Time		Leq		dB(A)		L90	
07:00 AM - 07:05 AM		07:00 AM - 07:05 AM		07:00 AM - 07:05 AM		60.2		57.7		57.3	
07:05 AM - 07:10 AM		07:05 AM - 07:10 AM		07:05 AM - 07:10 AM		58.8		56.9		57.8	
07:10 AM - 07:15 AM		07:10 AM - 07:15 AM		07:10 AM - 07:15 AM		58.1		56.6		57.4	
07:15 AM - 07:20 AM		07:15 AM - 07:20 AM		07:15 AM - 07:20 AM		58.3		56.6		57.8	
07:20 AM - 07:25 AM		07:20 AM - 07:25 AM		07:20 AM - 07:25 AM		57.0		55.7		57.4	
07:25 AM - 07:30 AM		07:25 AM - 07:30 AM		07:25 AM - 07:30 AM		57.8		56.2		57.2	
07:30 AM - 07:35 AM		07:30 AM - 07:35 AM		07:30 AM - 07:35 AM		57.7		56.3		57.3	
07:35 AM - 07:40 AM		07:35 AM - 07:40 AM		07:35 AM - 07:40 AM		57.3		56.2		57.0	
07:40 AM - 07:45 AM		07:40 AM - 07:45 AM		07:40 AM - 07:45 AM		58.4		56.6		57.8	
07:45 AM - 07:50 AM		07:45 AM - 07:50 AM		07:45 AM - 07:50 AM		56.5		55.7		57.9	
07:50 AM - 07:55 AM		07:50 AM - 07:55 AM		07:50 AM - 07:55 AM		56.6		55.5		57.1	
07:55 AM - 08:00 AM		07:55 AM - 08:00 AM		07:55 AM - 08:00 AM		57.5		56.4		57.0	
08:00 AM - 08:05 AM		08:00 AM - 08:05 AM		08:00 AM - 08:05 AM		57.5		56.7		57.6	
08:05 AM - 08:10 AM		08:05 AM - 08:10 AM		08:05 AM - 08:10 AM		57.2		56.5		57.1	
08:10 AM - 08:15 AM		08:10 AM - 08:15 AM		08:10 AM - 08:15 AM		57.5		56.6		57.6	
08:15 AM - 08:20 AM		08:15 AM - 08:20 AM		08:15 AM - 08:20 AM		57.6		56.8		57.6	
08:20 AM - 08:25 AM		08:20 AM - 08:25 AM		08:20 AM - 08:25 AM		58.8		56.8		57.7	
08:25 AM - 08:30 AM		08:25 AM - 08:30 AM		08:25 AM - 08:30 AM		57.7		56.9		57.0	
08:30 AM - 08:35 AM		08:30 AM - 08:35 AM		08:30 AM - 08:35 AM		57.6		56.8		57.2	
08:35 AM - 08:40 AM		08:35 AM - 08:40 AM		08:35 AM - 08:40 AM		57.4		56.5		57.1	
08:40 AM - 08:45 AM		08:40 AM - 08:45 AM		08:40 AM - 08:45 AM		57.5		56.7		57.6	
08:45 AM - 08:50 AM		08:45 AM - 08:50 AM		08:45 AM - 08:50 AM		57.1		56.4		57.3	
08:50 AM - 08:55 AM		08:50 AM - 08:55 AM		08:50 AM - 08:55 AM		57.1		56.3		57.0	
08:55 AM - 09:00 AM		08:55 AM - 09:00 AM		08:55 AM - 09:00 AM		57.6		57.0		57.3	
09:00 AM - 09:05 AM		09:00 AM - 09:05 AM		09:00 AM - 09:05 AM		57.2		56.7		57.6	
09:05 AM - 09:10 AM		09:05 AM - 09:10 AM		09:05 AM - 09:10 AM		57.6		56.8		57.8	
09:10 AM - 09:15 AM		09:10 AM - 09:15 AM		09:10 AM - 09:15 AM		57.4		56.6		57.3	
09:15 AM - 09:20 AM		09:15 AM - 09:20 AM		09:15 AM - 09:20 AM		57.4		56.6		57.0	
09:20 AM - 09:25 AM		09:20 AM - 09:25 AM		09:20 AM - 09:25 AM		57.5		56.7		57.3	
09:25 AM - 09:30 AM		09:25 AM - 09:30 AM		09:25 AM - 09:30 AM		57.7		56.9		57.6	
09:30 AM - 09:35 AM		09:30 AM - 09:35 AM		09:30 AM - 09:35 AM		57.4		56.7		57.4	
09:35 AM - 09:40 AM		09:35 AM - 09:40 AM		09:35 AM - 09:40 AM		57.9		57.0		57.2	

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Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853665-1

Page 1 of 3

Sample Number		23122968-3									
Parameter		Noise Level (Leq 5 min)									
Location		บริเวณด้านหน้าอาคารโรงเรียน									
Measurement Date		Nov 22 - Nov 23, 2023									
Measurement by		Thananat Anake									
Sound Level meter		Serial No. 00572552									
Nov 22, 2023		Leq dB(A)		L90 dB(A)		Nov 22, 2023		Leq dB(A)		L90 dB(A)	
Time				Time				Time			
03:00 PM - 03:05 PM	58.0	57.4	60.5	59.1	05:40 PM - 05:45 PM	58.0	57.4	60.5	59.1	08:20 PM - 08:25 PM	56.5
03:05 PM - 03:10 PM	58.0	57.1	61.4	60.7	05:45 PM - 05:50 PM	58.0	57.1	61.4	60.7	08:25 PM - 08:30 PM	57.1
03:10 PM - 03:15 PM	58.2	57.0	61.1	60.3	05:50 PM - 05:55 PM	58.2	57.0	61.1	60.3	08:30 PM - 08:35 PM	56.5
03:15 PM - 03:20 PM	58.0	57.3	60.2	59.5	05:55 PM - 06:00 PM	58.0	57.3	60.2	59.5	08:35 PM - 08:40 PM	56.9
03:20 PM - 03:25 PM	57.9	57.2	60.2	59.3	06:00 PM - 06:05 PM	57.9	57.2	60.2	59.3	08:40 PM - 08:45 PM	56.7
03:25 PM - 03:30 PM	57.6	57.0	59.7	58.0	06:05 PM - 06:10 PM	57.6	57.0	59.7	58.0	08:45 PM - 08:50 PM	57.3
03:30 PM - 03:35 PM	58.0	57.3	57.7	57.1	06:10 PM - 06:15 PM	58.0	57.3	57.7	57.1	08:50 PM - 08:55 PM	58.2
03:35 PM - 03:40 PM	58.4	57.7	57.2	56.6	06:15 PM - 06:20 PM	58.4	57.7	57.2	56.6	08:55 PM - 09:00 PM	58.3
03:40 PM - 03:45 PM	58.0	56.9	56.8	56.1	06:20 PM - 06:25 PM	58.0	56.9	56.8	56.1	09:00 PM - 09:05 PM	56.1
03:45 PM - 03:50 PM	57.8	57.0	56.7	56.2	06:25 PM - 06:30 PM	57.8	57.0	56.7	56.2	09:05 PM - 09:10 PM	56.0
03:50 PM - 03:55 PM	58.4	56.9	56.6	56.1	06:30 PM - 06:35 PM	58.4	56.9	56.6	56.1	09:10 PM - 09:15 PM	56.6
03:55 PM - 04:00 PM	58.4	57.5	57.6	56.0	06:35 PM - 06:40 PM	58.4	57.5	57.6	56.0	09:15 PM - 09:20 PM	56.5
04:00 PM - 04:05 PM	58.1	57.3	56.5	55.9	06:40 PM - 06:45 PM	58.1	57.3	56.5	55.9	09:20 PM - 09:25 PM	57.1
04:05 PM - 04:10 PM	57.8	56.9	56.3	55.8	06:45 PM - 06:50 PM	57.8	56.9	56.3	55.8	09:25 PM - 09:30 PM	57.2
04:10 PM - 04:15 PM	57.7	56.8	56.3	55.8	06:50 PM - 06:55 PM	57.7	56.8	56.3	55.8	09:30 PM - 09:35 PM	58.9
04:15 PM - 04:20 PM	57.6	56.8	56.4	56.0	06:55 PM - 07:00 PM	57.6	56.8	56.4	56.0	09:35 PM - 09:40 PM	59.0
04:20 PM - 04:25 PM	57.4	56.8	57.0	56.3	07:00 PM - 07:05 PM	57.4	56.8	57.0	56.3	09:40 PM - 09:45 PM	58.3
04:25 PM - 04:30 PM	57.9	57.0	56.7	56.2	07:05 PM - 07:10 PM	57.9	57.0	56.7	56.2	09:45 PM - 09:50 PM	58.3
04:30 PM - 04:35 PM	59.9	56.9	58.0	56.2	07:10 PM - 07:15 PM	59.9	56.9	58.0	56.2	09:50 PM - 09:55 PM	57.8
04:35 PM - 04:40 PM	58.4	57.1	56.9	56.2	07:15 PM - 07:20 PM	58.4	57.1	56.9	56.2	09:55 PM - 10:00 PM	56.1
04:40 PM - 04:45 PM	58.0	57.2	57.2	56.5	07:20 PM - 07:25 PM	58.0	57.2	57.2	56.5	10:00 PM - 10:05 PM	56.0
04:45 PM - 04:50 PM	58.9	57.4	57.4	56.6	07:25 PM - 07:30 PM	58.9	57.4	57.4	56.6	10:05 PM - 10:10 PM	55.9
04:50 PM - 04:55 PM	57.7	57.0	57.5	56.6	07:30 PM - 07:35 PM	57.7	57.0	57.5	56.6	10:10 PM - 10:15 PM	55.3
04:55 PM - 05:00 PM	58.1	57.2	56.8	56.3	07:35 PM - 07:40 PM	58.1	57.2	56.8	56.3	10:15 PM - 10:20 PM	56.1
05:00 PM - 05:05 PM	58.1	57.5	56.8	56.3	07:40 PM - 07:45 PM	58.1	57.5	56.8	56.3	10:20 PM - 10:25 PM	56.7
05:05 PM - 05:10 PM	58.1	57.5	56.9	56.3	07:45 PM - 07:50 PM	58.1	57.5	56.9	56.3	10:25 PM - 10:30 PM	56.5
05:10 PM - 05:15 PM	58.8	57.7	56.7	56.2	07:50 PM - 07:55 PM	58.8	57.7	56.7	56.2	10:30 PM - 10:35 PM	56.4
05:15 PM - 05:20 PM	59.4	58.0	57.6	56.7	07:55 PM - 08:00 PM	59.4	58.0	57.6	56.7	10:35 PM - 10:40 PM	56.5
05:20 PM - 05:25 PM	59.4	58.1	57.8	56.6	08:00 PM - 08:05 PM	59.4	58.1	57.8	56.6	10:40 PM - 10:45 PM	57.3
05:25 PM - 05:30 PM	61.0	57.9	57.4	56.8	08:05 PM - 08:10 PM	61.0	57.9	57.4	56.8	10:45 PM - 10:50 PM	57.0
05:30 PM - 05:35 PM	61.0	59.0	58.8	56.9	08:10 PM - 08:15 PM	61.0	59.0	58.8	56.9	10:50 PM - 10:55 PM	57.0
05:35 PM - 05:40 PM	60.8	58.3	57.9	56.6	08:15 PM - 08:20 PM	60.8	58.3	57.9	56.6	10:55 PM - 11:00 PM	56.8



Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122968

Date Received :Nov 29, 2023

Date Reported :Dec 07, 2023

Report Number : 2853665-1

## Analysis / Test Report

Sample Number 23122968-3

Parameter Noise Level (Leq 5 min)

Location บ้านกล้วยใต้/บ้านกล้วย (GPS 47P 0671368, 1576143)

Measurement Date Nov 22 - Nov 23, 2023

Measurement by Thanarat Anake

Sound Level meter Serial No. 00572552

Nov 22 - Nov 23, 2023	Leq dB(A)	Nov 23, 2023	Leq dB(A)	Nov 23, 2023	Leq dB(A)	L90 dB(A)
11:00 PM - 11:05 PM	57.2	01:40 AM - 01:45 AM	55.1	04:20 AM - 04:25 AM	56.1	55.0
11:05 PM - 11:10 PM	59.8	01:45 AM - 01:50 AM	55.3	04:25 AM - 04:30 AM	55.3	54.9
11:10 PM - 11:15 PM	56.1	01:50 AM - 01:55 AM	55.3	04:30 AM - 04:35 AM	55.3	54.9
11:15 PM - 11:20 PM	55.7	01:55 AM - 02:00 AM	55.4	04:35 AM - 04:40 AM	55.7	55.1
11:20 PM - 11:25 PM	56.5	02:00 AM - 02:05 AM	55.2	04:40 AM - 04:45 AM	56.4	55.4
11:25 PM - 11:30 PM	55.3	02:05 AM - 02:10 AM	55.3	04:45 AM - 04:50 AM	56.4	55.4
11:30 PM - 11:35 PM	55.4	02:10 AM - 02:15 AM	55.3	04:50 AM - 04:55 AM	57.3	55.9
11:35 PM - 11:40 PM	55.1	02:15 AM - 02:20 AM	55.1	04:55 AM - 05:00 AM	57.0	56.0
11:40 PM - 11:45 PM	54.9	02:20 AM - 02:25 AM	55.2	05:00 AM - 05:05 AM	64.5	60.4
11:45 PM - 11:50 PM	54.9	02:25 AM - 02:30 AM	55.1	05:05 AM - 05:10 AM	65.5	62.7
11:50 PM - 11:55 PM	55.0	02:30 AM - 02:35 AM	55.4	05:10 AM - 05:15 AM	64.2	61.0
11:55 PM - 12:00 AM	55.3	02:35 AM - 02:40 AM	55.3	05:15 AM - 05:20 AM	65.1	62.0
12:00 AM - 12:05 AM	55.2	02:40 AM - 02:45 AM	55.5	05:20 AM - 05:25 AM	65.5	63.1
12:05 AM - 12:10 AM	54.9	02:45 AM - 02:50 AM	55.5	05:25 AM - 05:30 AM	65.4	62.7
12:10 AM - 12:15 AM	54.8	02:50 AM - 02:55 AM	55.5	05:30 AM - 05:35 AM	65.5	63.1
12:15 AM - 12:20 AM	54.8	02:55 AM - 03:00 AM	55.2	05:35 AM - 05:40 AM	65.4	62.0
12:20 AM - 12:25 AM	54.8	03:00 AM - 03:05 AM	55.1	05:40 AM - 05:45 AM	66.6	64.5
12:25 AM - 12:30 AM	54.9	03:05 AM - 03:10 AM	55.3	05:45 AM - 05:50 AM	66.6	64.5
12:30 AM - 12:35 AM	55.2	03:10 AM - 03:15 AM	55.7	05:50 AM - 05:55 AM	63.0	59.1
12:35 AM - 12:40 AM	55.0	03:15 AM - 03:20 AM	55.4	05:55 AM - 06:00 AM	54.5	56.0
12:40 AM - 12:45 AM	54.8	03:20 AM - 03:25 AM	55.2	06:00 AM - 06:05 AM	59.3	57.0
12:45 AM - 12:50 AM	54.8	03:25 AM - 03:30 AM	55.1	06:05 AM - 06:10 AM	59.6	58.3
12:50 AM - 12:55 AM	54.9	03:30 AM - 03:35 AM	55.0	06:10 AM - 06:15 AM	58.7	57.6
12:55 AM - 01:00 AM	55.1	03:35 AM - 03:40 AM	54.9	06:15 AM - 06:20 AM	57.4	56.0
01:00 AM - 01:05 AM	55.0	03:40 AM - 03:45 AM	54.6	06:20 AM - 06:25 AM	57.6	55.9
01:05 AM - 01:10 AM	55.8	03:45 AM - 03:50 AM	55.1	06:25 AM - 06:30 AM	57.8	55.6
01:10 AM - 01:15 AM	55.6	03:50 AM - 03:55 AM	55.1	06:30 AM - 06:35 AM	56.9	56.2
01:15 AM - 01:20 AM	56.5	03:55 AM - 04:00 AM	55.0	06:35 AM - 06:40 AM	58.4	56.6
01:20 AM - 01:25 AM	55.6	04:00 AM - 04:05 AM	54.9	06:40 AM - 06:45 AM	58.4	56.8
01:25 AM - 01:30 AM	56.9	04:05 AM - 04:10 AM	55.1	06:45 AM - 06:50 AM	57.9	56.8
01:30 AM - 01:35 AM	55.2	04:10 AM - 04:15 AM	56.4	06:50 AM - 06:55 AM	58.9	57.2
01:35 AM - 01:40 AM	55.1	04:15 AM - 04:20 AM	55.2	06:55 AM - 07:00 AM	58.2	57.4

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Approved by

Sarayuth Jitranont  
Assistant General Manager



Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

## Analysis / Test Report

Sample Number 23122968-3

Parameter Noise Level (Leq 5 min)

Location บ้านกล้วยใต้/บ้านกล้วย (GPS 47P 0671368, 1576143)

Measurement Date Nov 22 - Nov 23, 2023

Measurement by Thanarat Anake

Sound Level meter Serial No. 00572552

Nov 22 - Nov 23, 2023	Leq dB(A)	Nov 23, 2023	Leq dB(A)	Nov 23, 2023	Leq dB(A)	L90 dB(A)
07:00 AM - 07:05 AM	60.4	09:40 AM - 09:45 AM	57.8	12:20 PM - 12:25 PM	57.7	57.2
07:05 AM - 07:10 AM	59.9	09:45 AM - 09:50 AM	57.6	12:25 PM - 12:30 PM	57.9	57.2
07:10 AM - 07:15 AM	58.0	09:50 AM - 09:55 AM	57.8	12:30 PM - 12:35 PM	57.8	57.3
07:15 AM - 07:20 AM	58.6	09:55 AM - 10:00 AM	57.2	12:35 PM - 12:40 PM	57.8	57.0
07:20 AM - 07:25 AM	58.1	10:00 AM - 10:05 AM	57.7	12:40 PM - 12:45 PM	57.6	56.9
07:25 AM - 07:30 AM	58.2	10:05 AM - 10:10 AM	57.4	12:45 PM - 12:50 PM	57.6	56.7
07:30 AM - 07:35 AM	58.9	10:10 AM - 10:15 AM	57.6	12:50 PM - 12:55 PM	57.3	56.7
07:35 AM - 07:40 AM	58.0	10:15 AM - 10:20 AM	57.8	12:55 PM - 01:00 PM	57.9	57.0
07:40 AM - 07:45 AM	58.5	10:20 AM - 10:25 AM	57.6	01:00 PM - 01:05 PM	58.0	57.2
07:45 AM - 07:50 AM	57.5	10:25 AM - 10:30 AM	57.7	01:05 PM - 01:10 PM	58.1	57.4
07:50 AM - 07:55 AM	56.7	10:30 AM - 10:35 AM	58.2	01:10 PM - 01:15 PM	58.7	57.9
07:55 AM - 08:00 AM	57.4	10:35 AM - 10:40 AM	57.7	01:15 PM - 01:20 PM	59.0	57.8
08:00 AM - 08:05 AM	57.7	10:40 AM - 10:45 AM	57.6	01:20 PM - 01:25 PM	58.1	57.4
08:05 AM - 08:10 AM	58.5	10:45 AM - 10:50 AM	57.8	01:25 PM - 01:30 PM	58.6	57.8
08:10 AM - 08:15 AM	59.0	10:50 AM - 10:55 AM	58.8	01:30 PM - 01:35 PM	58.3	57.5
08:15 AM - 08:20 AM	58.1	10:55 AM - 11:00 AM	58.3	01:35 PM - 01:40 PM	58.0	57.3
08:20 AM - 08:25 AM	58.7	11:00 AM - 11:05 AM	57.6	01:40 PM - 01:45 PM	58.3	57.5
08:25 AM - 08:30 AM	58.8	11:05 AM - 11:10 AM	57.5	01:45 PM - 01:50 PM	58.8	58.0
08:30 AM - 08:35 AM	58.1	11:10 AM - 11:15 AM	57.3	01:50 PM - 01:55 PM	59.4	58.0
08:35 AM - 08:40 AM	58.0	11:15 AM - 11:20 AM	58.2	01:55 PM - 02:00 PM	58.9	57.6
08:40 AM - 08:45 AM	57.8	11:20 AM - 11:25 AM	57.6	02:00 PM - 02:05 PM	58.4	57.2
08:45 AM - 08:50 AM	58.0	11:25 AM - 11:30 AM	56.8	02:05 PM - 02:10 PM	58.1	57.5
08:50 AM - 08:55 AM	59.3	11:30 AM - 11:35 AM	56.9	02:10 PM - 02:15 PM	58.3	57.5
08:55 AM - 09:00 AM	58.4	11:35 AM - 11:40 AM	57.4	02:15 PM - 02:20 PM	58.1	57.5
09:00 AM - 09:05 AM	58.1	11:40 AM - 11:45 AM	61.0	02:20 PM - 02:25 PM	58.6	57.9
09:05 AM - 09:10 AM	58.1	11:45 AM - 11:50 AM	62.7	02:25 PM - 02:30 PM	59.2	58.3
09:10 AM - 09:15 AM	58.9	11:50 AM - 11:55 AM	62.1	02:30 PM - 02:35 PM	58.9	58.3
09:15 AM - 09:20 AM	57.1	11:55 AM - 12:00 PM	60.7	02:35 PM - 02:40 PM	59.0	58.0
09:20 AM - 09:25 AM	57.9	12:00 PM - 12:05 PM	60.8	02:40 PM - 02:45 PM	58.6	57.8
09:25 AM - 09:30 AM	58.0	12:05 PM - 12:10 PM	59.9	02:45 PM - 02:50 PM	59.3	58.5
09:30 AM - 09:35 AM	58.3	12:10 PM - 12:15 PM	59.3	02:50 PM - 02:55 PM	59.1	58.4
09:35 AM - 09:40 AM	58.0	12:15 PM - 12:20 PM	58.2	02:55 PM - 03:00 PM	59.0	58.4

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Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853666-1

Page 1 of 2

Sample Number		23122968-4		Noise Level (Leq 5 min)		ขั้ววัดความดังเสียงทดสอบ (GPS 47P 0671368, 1576143)		Nov 23 - Nov 24, 2023		Serial No. 00572552	
Parameter		Location		Measurement Date		Measurement by		Sound Level meter			
Nov 23, 2023		Time	Leq dB(A)	Nov 23, 2023	Time	Leq dB(A)	Nov 23, 2023	Time	Leq dB(A)	Nov 23, 2023	Time
03:00 PM - 03:05 PM			60.4	05:40 PM - 05:45 PM		62.0	08:20 PM - 08:25 PM		56.8	11:00 PM - 11:05 PM	
03:05 PM - 03:10 PM			60.8	05:45 PM - 05:50 PM		62.4	08:30 PM - 08:35 PM		56.8	11:05 PM - 11:10 PM	
03:10 PM - 03:15 PM			60.6	05:50 PM - 05:55 PM		62.6	08:35 PM - 08:40 PM		56.6	11:10 PM - 11:15 PM	
03:15 PM - 03:20 PM			62.9	05:55 PM - 06:00 PM		62.0	08:40 PM - 08:45 PM		57.4	11:15 PM - 11:20 PM	
03:20 PM - 03:25 PM			64.4	06:00 PM - 06:05 PM		61.2	08:45 PM - 08:50 PM		56.7	11:20 PM - 11:25 PM	
03:25 PM - 03:30 PM			63.8	06:05 PM - 06:10 PM		60.4	08:50 PM - 08:55 PM		57.0	11:25 PM - 11:30 PM	
03:30 PM - 03:35 PM			58.9	06:10 PM - 06:15 PM		59.7	08:55 PM - 09:00 PM		57.2	11:30 PM - 11:35 PM	
03:35 PM - 03:40 PM			58.2	06:15 PM - 06:20 PM		58.7	09:00 PM - 09:05 PM		56.9	11:35 PM - 11:40 PM	
03:40 PM - 03:45 PM			57.9	06:20 PM - 06:25 PM		58.5	09:05 PM - 09:10 PM		56.4	11:40 PM - 11:45 PM	
03:45 PM - 03:50 PM			57.4	06:25 PM - 06:30 PM		58.4	09:10 PM - 09:15 PM		55.5	11:45 PM - 11:50 PM	
03:50 PM - 03:55 PM			57.9	06:30 PM - 06:35 PM		58.7	09:15 PM - 09:20 PM		55.1	11:50 PM - 11:55 PM	
03:55 PM - 04:00 PM			58.2	06:35 PM - 06:40 PM		59.0	09:20 PM - 09:25 PM		55.1	11:55 PM - 12:00 PM	
04:00 PM - 04:05 PM			57.6	06:40 PM - 06:45 PM		59.2	09:25 PM - 09:30 PM		54.7	12:00 PM - 12:05 PM	
04:05 PM - 04:10 PM			57.5	06:45 PM - 06:50 PM		58.2	09:30 PM - 09:35 PM		55.3	12:05 PM - 12:10 PM	
04:10 PM - 04:15 PM			57.1	06:50 PM - 06:55 PM		57.6	09:35 PM - 09:40 PM		55.2	12:10 PM - 12:15 PM	
04:15 PM - 04:20 PM			57.5	06:55 PM - 07:00 PM		57.3	09:40 PM - 09:45 PM		55.0	12:15 PM - 12:20 PM	
04:20 PM - 04:25 PM			57.3	07:00 PM - 07:05 PM		57.1	09:45 PM - 09:50 PM		55.1	12:20 PM - 12:25 PM	
04:25 PM - 04:30 PM			58.1	07:05 PM - 07:10 PM		58.3	09:50 PM - 09:55 PM		55.0	12:25 PM - 12:30 PM	
04:30 PM - 04:35 PM			57.9	07:10 PM - 07:15 PM		58.0	09:55 PM - 10:00 PM		55.2	12:30 PM - 12:35 PM	
04:35 PM - 04:40 PM			57.5	07:15 PM - 07:20 PM		57.8	10:00 PM - 10:05 PM		55.0	12:35 PM - 12:40 PM	
04:40 PM - 04:45 PM			57.7	07:20 PM - 07:25 PM		57.9	10:05 PM - 10:10 PM		55.0	12:40 PM - 12:45 PM	
04:45 PM - 04:50 PM			56.9	07:25 PM - 07:30 PM		57.1	10:10 PM - 10:15 PM		55.0	12:45 PM - 12:50 PM	
04:50 PM - 04:55 PM			61.3	07:30 PM - 07:35 PM		57.2	10:15 PM - 10:20 PM		55.0	12:50 PM - 12:55 PM	
04:55 PM - 05:00 PM			58.0	07:35 PM - 07:40 PM		57.4	10:20 PM - 10:25 PM		55.0	12:55 PM - 01:00 AM	
05:00 PM - 05:05 PM			58.0	07:40 PM - 07:45 PM		57.3	10:25 PM - 10:30 PM		55.1	01:00 AM - 01:05 AM	
05:05 PM - 05:10 PM			57.2	07:45 PM - 07:50 PM		58.7	10:30 PM - 10:35 PM		55.3	01:05 AM - 01:10 AM	
05:10 PM - 05:15 PM			57.5	07:50 PM - 07:55 PM		56.6	10:35 PM - 10:40 PM		55.4	01:10 AM - 01:15 AM	
05:15 PM - 05:20 PM			59.1	07:55 PM - 08:00 PM		56.3	10:40 PM - 10:45 PM		55.2	01:15 AM - 01:20 AM	
05:20 PM - 05:25 PM			60.1	08:00 PM - 08:05 PM		56.7	10:45 PM - 10:50 PM		56.5	01:20 AM - 01:25 AM	
05:25 PM - 05:30 PM			58.9	08:05 PM - 08:10 PM		56.8	10:50 PM - 10:55 PM		56.0	01:25 AM - 01:30 AM	
05:30 PM - 05:35 PM			59.7	08:10 PM - 08:15 PM		56.6	10:55 PM - 11:00 PM		55.9	01:30 AM - 01:35 AM	
05:35 PM - 05:40 PM			60.8	08:15 PM - 08:20 PM		57.0			55.6	01:35 AM - 01:40 AM	

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Approved by

  
Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853666-1

Page 2 of 3

Sample Number		23122968-4									
Location		Noise Level (Leq 5 min) ขั้ววัดความดังเสียงทดสอบ (GPS 47P 0671368, 1576143)									
Measurement Date		Nov 23 - Nov 24, 2023									
Measurement by		Thanat Anake									
Sound Level meter		Serial No. 00572552									
Nov 23 - Nov 24, 2023		Leq dB(A)	L90 dB(A)	Nov 24, 2023		Leq dB(A)	L90 dB(A)	Nov 24, 2023		Leq dB(A)	L90 dB(A)
11:00 PM - 11:05 PM		56.3	55.6	01:40 AM - 01:45 AM	57.1	55.0	04:20 AM - 04:25 AM	55.7	55.2		
11:05 PM - 11:10 PM		57.7	56.6	01:45 AM - 01:50 AM	56.5	55.1	04:25 AM - 04:30 AM	56.0	55.1		
11:10 PM - 11:15 PM		59.5	55.0	01:50 AM - 01:55 AM	55.5	54.9	04:30 AM - 04:35 AM	55.8	55.2		
11:15 PM - 11:20 PM		55.4	54.6	01:55 AM - 02:00 AM	55.8	55.1	04:35 AM - 04:40 AM	55.9	55.2		
11:20 PM - 11:25 PM		55.3	54.6	02:00 AM - 02:05 AM	56.0	55.2	04:40 AM - 04:45 AM	56.0	55.2		
11:25 PM - 11:30 PM		55.4	54.8	02:05 AM - 02:10 AM	55.8	55.1	04:45 AM - 04:50 AM	57.9	56.1		
11:30 PM - 11:35 PM		55.5	54.7	02:10 AM - 02:15 AM	55.8	55.0	04:50 AM - 04:55 AM	57.6	56.5		
11:35 PM - 11:40 PM		55.0	54.7	02:15 AM - 02:20 AM	55.8	55.0	04:55 AM - 05:00 AM	57.2	56.3		
11:40 PM - 11:45 PM		55.0	54.6	02:20 AM - 02:25 AM	55.3	54.8	05:00 AM - 05:05 AM	62.8	59.4		
11:45 PM - 11:50 PM		55.0	54.7	02:25 AM - 02:30 AM	55.7	54.9	05:05 AM - 05:10 AM	63.4	60.7		
11:50 PM - 11:55 PM		55.1	54.7	02:30 AM - 02:35 AM	55.4	54.9	05:10 AM - 05:15 AM	64.6	62.1		
11:55 PM - 12:00 AM		55.1	54.7	02:35 AM - 02:40 AM	55.4	54.9	05:15 AM - 05:20 AM	65.7	62.9		
12:00 AM - 12:05 AM		55.1	54.7	02:40 AM - 02:45 AM	55.5	55.0	05:20 AM - 05:25 AM	65.9	63.9		
12:05 AM - 12:10 AM		55.3	54.7	02:45 AM - 02:50 AM	55.5	55.0	05:25 AM - 05:30 AM	66.5	63.9		
12:10 AM - 12:15 AM		55.2	54.8	02:50 AM - 02:55 AM	55.9	55.1	05:30 AM - 05:35 AM	66.4	63.9		
12:15 AM - 12:20 AM		55.0	54.6	02:55 AM - 03:00 AM	55.6	55.0	05:35 AM - 05:40 AM	65.9	63.6		
12:20 AM - 12:25 AM		55.1	54.6	03:00 AM - 03:05 AM	55.6	55.0	05:40 AM - 05:45 AM	66.6	64.4		
12:25 AM - 12:30 AM		55.0	54.6	03:05 AM - 03:10 AM	55.7	55.0	05:45 AM - 05:50 AM	66.1	64.2		
12:30 AM - 12:35 AM		55.2	54.6	03:10 AM - 03:15 AM	55.7	54.9	05:50 AM - 05:55 AM	66.3	64.1		
12:35 AM - 12:40 AM		55.0	54.6	03:15 AM - 03:20 AM	55.9	55.0	05:55 AM - 06:00 AM	67.3	64.1		
12:40 AM - 12:45 AM		55.0	54.6	03:20 AM - 03:25 AM	55.8	55.0	06:00 AM - 06:05 AM	59.7	55.8		
12:45 AM - 12:50 AM		55.0	54.6	03:25 AM - 03:30 AM	55.5	54.9	06:05 AM - 06:10 AM	59.1	55.5		
12:50 AM - 12:55 AM		55.0	54.7	03:30 AM - 03:35 AM	55.8	55.0	06:10 AM - 06:15 AM	59.0	55.6		
12:55 AM - 01:00 AM		55.0	54.7	03:35 AM - 03:40 AM	55.7	55.0	06:15 AM - 06:20 AM	58.6	55.6		
01:00 AM - 01:05 AM		55.1	54.7	03:40 AM - 03:45 AM	55.5	55.1	06:20 AM - 06:25 AM	57.4	55.4		
01:05 AM - 01:10 AM		55.3	54.8	03:45 AM - 03:50 AM	55.5	55.1	06:25 AM - 06:30 AM	58.9	55.2		
01:10 AM - 01:15 AM		55.4	54.9	03:50 AM - 03:55 AM	55.9	55.2	06:30 AM - 06:35 AM	59.5	55.1		
01:15 AM - 01:20 AM		56.5	55.2	03:55 AM - 04:00 AM	55.7	55.2	06:35 AM - 06:40 AM	58.3	55.1		
01:20 AM - 01:25 AM		56.5	55.2	04:00 AM - 04:05 AM	55.7	55.0	06:40 AM - 06:45 AM	59.4	54.8		
01:25 AM - 01:30 AM		56.0	55.3	04:05 AM - 04:10 AM	55.6	55.1	06:45 AM - 06:50 AM	58.5	55.0		
01:30 AM - 01:35 AM		55.9	55.1	04:10 AM - 04:15 AM	55.6	55.0	06:50 AM - 06:55 AM	61.1	55.6		
01:35 AM - 01:40 AM		55.6	55.0	04:15 AM - 04:20 AM	55.8	55.1	06:55 AM - 07:00 AM	60.6	55.1		



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853666-1

Page 3 of 3

Sample Number		23122968-4		Noise Level (Leq 5 min)		Nov 23 - Nov 24, 2023		Thananat Anake		Serial No. 00572552	
Parameter		Location		Measurement Date		Measurement by		Sound Level meter			
Nov 24, 2023		Leq dB(A)		Nov 24, 2023		Leq dB(A)		Nov 24, 2023		Leq dB(A)	
Time		Time		Time		Time		Time		Time	
07:00 AM - 07:05 AM		57.1		09:40 AM - 09:45 AM		54.5		12:20 PM - 12:25 PM		59.2	
07:05 AM - 07:10 AM		57.6		09:45 AM - 09:50 AM		56.4		12:25 PM - 12:30 PM		60.8	
07:10 AM - 07:15 AM		58.0		09:50 AM - 09:55 AM		58.8		12:30 PM - 12:35 PM		58.2	
07:15 AM - 07:20 AM		57.0		09:55 AM - 10:00 AM		58.5		12:35 PM - 12:40 PM		58.3	
07:20 AM - 07:25 AM		59.8		10:00 AM - 10:05 AM		60.6		12:40 PM - 12:45 PM		58.2	
07:25 AM - 07:30 AM		64.5		10:05 AM - 10:10 AM		57.6		12:45 PM - 12:50 PM		59.7	
07:30 AM - 07:35 AM		61.7		10:10 AM - 10:15 AM		57.4		12:50 PM - 12:55 PM		57.4	
07:35 AM - 07:40 AM		58.6		10:15 AM - 10:20 AM		61.0		12:55 PM - 01:00 PM		58.1	
07:40 AM - 07:45 AM		58.7		10:20 AM - 10:25 AM		58.1		01:00 PM - 01:05 PM		58.2	
07:45 AM - 07:50 AM		60.2		10:25 AM - 10:30 AM		60.8		01:05 PM - 01:10 PM		59.0	
07:50 AM - 07:55 AM		62.6		10:30 AM - 10:35 AM		56.3		01:10 PM - 01:15 PM		58.3	
07:55 AM - 08:00 AM		58.6		10:35 AM - 10:40 AM		57.5		01:15 PM - 01:20 PM		58.5	
08:00 AM - 08:05 AM		60.7		10:40 AM - 10:45 AM		56.4		01:20 PM - 01:25 PM		59.0	
08:05 AM - 08:10 AM		62.2		10:45 AM - 10:50 AM		56.4		01:25 PM - 01:30 PM		58.2	
08:10 AM - 08:15 AM		58.5		10:50 AM - 10:55 AM		56.4		01:30 PM - 01:35 PM		58.6	
08:15 AM - 08:20 AM		59.0		10:55 AM - 11:00 AM		57.4		01:35 PM - 01:40 PM		59.6	
08:20 AM - 08:25 AM		59.7		11:00 AM - 11:05 AM		57.1		01:40 PM - 01:45 PM		59.7	
08:25 AM - 08:30 AM		60.5		11:05 AM - 11:10 AM		57.9		01:45 PM - 01:50 PM		58.7	
08:30 AM - 08:35 AM		58.1		11:10 AM - 11:15 AM		57.4		01:50 PM - 01:55 PM		58.3	
08:35 AM - 08:40 AM		59.2		11:15 AM - 11:20 AM		57.9		01:55 PM - 02:00 PM		58.2	
08:40 AM - 08:45 AM		59.1		11:20 AM - 11:25 AM		57.6		02:00 PM - 02:05 PM		57.6	
08:45 AM - 08:50 AM		61.9		11:25 AM - 11:30 AM		58.2		02:05 PM - 02:10 PM		59.1	
08:50 AM - 08:55 AM		63.8		11:30 AM - 11:35 AM		57.2		02:10 PM - 02:15 PM		59.6	
08:55 AM - 09:00 AM		69.4		11:35 AM - 11:40 AM		57.5		02:15 PM - 02:20 PM		59.6	
09:00 AM - 09:05 AM		62.6		11:40 AM - 11:45 AM		56.9		02:20 PM - 02:25 PM		58.3	
09:05 AM - 09:10 AM		57.4		11:45 AM - 11:50 AM		57.6		02:25 PM - 02:30 PM		58.6	
09:10 AM - 09:15 AM		61.0		11:50 AM - 11:55 AM		57.2		02:30 PM - 02:35 PM		59.2	
09:15 AM - 09:20 AM		57.5		11:55 AM - 12:00 PM		60.4		02:35 PM - 02:40 PM		59.8	
09:20 AM - 09:25 AM		58.8		12:00 PM - 12:05 PM		61.4		02:40 PM - 02:45 PM		59.8	
09:25 AM - 09:30 AM		56.3		12:05 PM - 12:10 PM		61.5		02:45 PM - 02:50 PM		59.1	
09:30 AM - 09:35 AM		67.1		12:10 PM - 12:15 PM		60.0		02:50 PM - 02:55 PM		59.1	
09:35 AM - 09:40 AM		60.1		12:15 PM - 12:20 PM		59.2		02:55 PM - 03:00 PM		59.0	

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Approved by

Sarayuth Jitranont  
Assistant General Manager

Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853667-1

Page 1 of 3

Sample Number		23122968-5		Noise Level (Leq 5 min)		Nov 24 - Nov 25, 2023		Thananat Anake		Serial No. 00572552	
Parameter		Location		Measurement Date		Measurement by		Sound Level meter			
Nov 24, 2023		Leq dB(A)		Nov 24, 2023		Leq dB(A)		Nov 24, 2023		Leq dB(A)	
Time		Time		Time		Time		Time		Time	
03:00 PM - 03:05 PM		59.2		05:40 PM - 05:45 PM		58.5		08:20 PM - 08:25 PM		57.5	
03:05 PM - 03:10 PM		59.5		05:45 PM - 05:50 PM		58.8		08:25 PM - 08:30 PM		57.2	
03:10 PM - 03:15 PM		61.9		05:50 PM - 05:55 PM		61.9		08:30 PM - 08:35 PM		57.0	
03:15 PM - 03:20 PM		59.3		05:55 PM - 06:00 PM		58.5		08:35 PM - 08:40 PM		57.0	
03:20 PM - 03:25 PM		59.9		06:00 PM - 06:05 PM		58.8		08:40 PM - 08:45 PM		57.1	
03:25 PM - 03:30 PM		60.2		06:05 PM - 06:10 PM		58.9		08:45 PM - 08:50 PM		57.1	
03:30 PM - 03:35 PM		59.6		06:10 PM - 06:15 PM		58.9		08:50 PM - 08:55 PM		57.0	
03:35 PM - 03:40 PM		59.0		06:15 PM - 06:20 PM		58.0		08:55 PM - 09:00 PM		56.9	
03:40 PM - 03:45 PM		58.6		06:20 PM - 06:25 PM		57.9		09:00 PM - 09:05 PM		56.6	
03:45 PM - 03:50 PM		58.5		06:25 PM - 06:30 PM		57.9		09:05 PM - 09:10 PM		57.3	
03:50 PM - 03:55 PM		58.1		06:30 PM - 06:35 PM		57.5		09:10 PM - 09:15 PM		57.3	
03:55 PM - 04:00 PM		58.7		06:35 PM - 06:40 PM		57.6		09:15 PM - 09:20 PM		56.3	
04:00 PM - 04:05 PM		58.4		06:40 PM - 06:45 PM		57.6		09:20 PM - 09:25 PM		57.2	
04:05 PM - 04:10 PM		58.7		06:45 PM - 06:50 PM		57.9		09:25 PM - 09:30 PM		58.7	
04:10 PM - 04:15 PM		58.9		06:50 PM - 06:55 PM		57.7		09:30 PM - 09:35 PM		59.2	
04:15 PM - 04:20 PM		59.0		06:55 PM - 07:00 PM		57.6		09:35 PM - 09:40 PM		58.1	
04:20 PM - 04:25 PM		58.0		07:00 PM - 07:05 PM		57.2		09:40 PM - 09:45 PM		58.3	
04:25 PM - 04:30 PM		57.9		07:05 PM - 07:10 PM		57.3		09:45 PM - 09:50 PM		57.7	
04:30 PM - 04:35 PM		57.5		07:10 PM - 07:15 PM		56.7		09:50 PM - 09:55 PM		55.3	



## Analysis / Test Report

**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853667-1

Page 2 of 3

Sample Number 23122968-5				Noise Level (Leq 5 min)			
Parameter				ขั้วไฟฟ้าวัดค่าเสียงทดสอบ (GPS 47P 0671368, 1576143)			
Location				Nov 24 - Nov 25, 2023			
Measurement Date				Thananot Anake			
Sound Level meter				Serial No. 00572552			
Nov 24 - Nov 25, 2023	Leq dB(A)	L90 dB(A)	Nov 25, 2023	Leq dB(A)	L90 dB(A)	Nov 25, 2023	Leq dB(A)
11:00 PM - 11:05 PM	57.1	56.5	01:40 AM - 01:45 AM	56.6	55.9	04:20 AM - 04:25 AM	57.1
11:05 PM - 11:10 PM	59.5	56.5	01:45 AM - 01:50 AM	56.1	55.8	04:25 AM - 04:30 AM	57.3
11:10 PM - 11:15 PM	56.3	55.8	01:50 AM - 01:55 AM	56.1	55.6	04:30 AM - 04:35 AM	58.0
11:15 PM - 11:20 PM	59.8	55.8	01:55 AM - 02:00 AM	56.2	55.6	04:35 AM - 04:40 AM	58.3
11:20 PM - 11:25 PM	56.5	55.8	02:00 AM - 02:05 AM	56.5	55.7	04:40 AM - 04:45 AM	58.4
11:25 PM - 11:30 PM	56.4	55.7	02:05 AM - 02:10 AM	56.0	55.5	04:45 AM - 04:50 AM	58.7
11:30 PM - 11:35 PM	56.8	55.8	02:10 AM - 02:15 AM	56.2	55.6	04:50 AM - 04:55 AM	58.2
11:35 PM - 11:40 PM	56.8	55.7	02:15 AM - 02:20 AM	56.3	55.7	04:55 AM - 05:00 AM	58.5
11:40 PM - 11:45 PM	56.5	56.0	02:20 AM - 02:25 AM	56.2	55.7	05:00 AM - 05:05 AM	63.3
11:45 PM - 11:50 PM	56.5	55.9	02:25 AM - 02:30 AM	56.3	55.8	05:05 AM - 05:10 AM	64.5
11:50 PM - 11:55 PM	56.2	55.8	02:30 AM - 02:35 AM	56.1	55.6	05:10 AM - 05:15 AM	66.3
11:55 PM - 12:00 AM	56.2	55.7	02:35 AM - 02:40 AM	56.2	55.7	05:15 AM - 05:20 AM	66.6
12:00 AM - 12:05 AM	56.3	55.8	02:40 AM - 02:45 AM	56.1	55.6	05:20 AM - 05:25 AM	66.3
12:05 AM - 12:10 AM	56.1	55.6	02:45 AM - 02:50 AM	56.1	55.6	05:25 AM - 05:30 AM	65.9
12:10 AM - 12:15 AM	56.3	55.6	02:50 AM - 02:55 AM	56.2	55.7	05:30 AM - 05:35 AM	64.1
12:15 AM - 12:20 AM	56.3	55.7	02:55 AM - 03:00 AM	56.1	55.7	05:35 AM - 05:40 AM	66.5
12:20 AM - 12:25 AM	56.1	55.6	03:00 AM - 03:05 AM	56.1	55.7	05:40 AM - 05:45 AM	65.7
12:25 AM - 12:30 AM	56.0	55.6	03:05 AM - 03:10 AM	56.2	55.7	05:45 AM - 05:50 AM	66.7
12:30 AM - 12:35 AM	56.2	55.6	03:10 AM - 03:15 AM	56.0	55.6	05:50 AM - 05:55 AM	66.4
12:35 AM - 12:40 AM	56.0	55.5	03:15 AM - 03:20 AM	56.1	55.6	05:55 AM - 06:00 AM	61.9
12:40 AM - 12:45 AM	56.0	55.5	03:20 AM - 03:25 AM	56.2	55.7	06:00 AM - 06:05 AM	61.5
12:45 AM - 12:50 AM	55.9	55.5	03:25 AM - 03:30 AM	56.2	55.7	06:05 AM - 06:10 AM	61.5
12:50 AM - 12:55 AM	56.0	55.5	03:30 AM - 03:35 AM	56.1	55.7	06:10 AM - 06:15 AM	60.0
12:55 AM - 01:00 AM	56.2	55.7	03:35 AM - 03:40 AM	56.2	55.8	06:15 AM - 06:20 AM	57.6
01:00 AM - 01:05 AM	56.5	55.7	03:40 AM - 03:45 AM	56.2	55.7	06:20 AM - 06:25 AM	58.5
01:05 AM - 01:10 AM	56.5	55.8	03:45 AM - 03:50 AM	56.4	55.7	06:25 AM - 06:30 AM	58.0
01:10 AM - 01:15 AM	56.4	55.8	03:50 AM - 03:55 AM	56.2	55.7	06:30 AM - 06:35 AM	58.1
01:15 AM - 01:20 AM	56.3	55.8	03:55 AM - 04:00 AM	56.4	55.7	06:35 AM - 06:40 AM	60.1
01:20 AM - 01:25 AM	56.5	55.8	04:00 AM - 04:05 AM	56.1	55.6	06:40 AM - 06:45 AM	60.3
01:25 AM - 01:30 AM	57.5	55.8	04:05 AM - 04:10 AM	56.4	55.8	06:45 AM - 06:50 AM	59.0
01:30 AM - 01:35 AM	56.3	55.6	04:10 AM - 04:15 AM	56.7	56.0	06:50 AM - 06:55 AM	60.1
01:35 AM - 01:40 AM	57.5	55.7	04:15 AM - 04:20 AM	56.3	55.8	06:55 AM - 07:00 AM	60.7

Approved by

Sariyuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853667-1

Page 3 of 3

Sample Number 23122968-5				Noise Level (Leq 5 min)			
Parameter				ขั้วไฟฟ้าวัดค่าเสียงทดสอบ (GPS 47P 0671368, 1576143)			
Location				Nov 24 - Nov 25, 2023			
Measurement Date				Thananot Anake			
Sound Level meter				Serial No. 00572552			
Nov 25, 2023	Leq dB(A)	L90 dB(A)	Nov 25, 2023	Leq dB(A)	L90 dB(A)	Nov 25, 2023	Leq dB(A)
07:00 AM - 07:05 AM	59.7	58.1	09:40 AM - 09:45 AM	59.1	58.1	12:20 PM - 12:25 PM	59.0
07:05 AM - 07:10 AM	60.7	57.8	09:45 AM - 09:50 AM	59.1	58.1	12:25 PM - 12:30 PM	58.4
07:10 AM - 07:15 AM	59.4	57.7	09:50 AM - 09:55 AM	58.5	57.7	12:30 PM - 12:35 PM	58.4
07:15 AM - 07:20 AM	59.5	57.4	09:55 AM - 10:00 AM	58.6	57.7	12:35 PM - 12:40 PM	57.6
07:20 AM - 07:25 AM	59.9	57.5	10:00 AM - 10:05 AM	58.4	57.7	12:40 PM - 12:45 PM	58.1
07:25 AM - 07:30 AM	58.9	57.6	10:05 AM - 10:10 AM	58.5	57.7	12:45 PM - 12:50 PM	58.1
07:30 AM - 07:35 AM	58.5	57.4	10:10 AM - 10:15 AM	58.4	57.6	12:50 PM - 12:55 PM	57.3
07:35 AM - 07:40 AM	59.2	57.8	10:15 AM - 10:20 AM	58.3	57.5	12:55 PM - 01:00 PM	57.9
07:40 AM - 07:45 AM	59.7	58.1	10:20 AM - 10:25 AM	58.8	57.7	01:00 PM - 01:05 PM	58.4
07:45 AM - 07:50 AM	59.0	57.3	10:25 AM - 10:30 AM	59.1	57.8	01:05 PM - 01:10 PM	57.9
07:50 AM - 07:55 AM	58.2	57.1	10:30 AM - 10:35 AM	58.9	57.5	01:10 PM - 01:15 PM	58.8
07:55 AM - 08:00 AM	58.3	57.5	10:35 AM - 10:40 AM	59.3	57.7	01:15 PM - 01:20 PM	60.7
08:00 AM - 08:05 AM	58.5	57.6	10:40 AM - 10:45 AM	58.3	57.5	01:20 PM - 01:25 PM	58.2
08:05 AM - 08:10 AM	58.6	57.8	10:45 AM - 10:50 AM	59.7	57.4	01:25 PM - 01:30 PM	58.3
08:10 AM - 08:15 AM	58.7	57.8	10:50 AM - 10:55 AM	58.5	57.5	01:30 PM - 01:35 PM	58.6
08:15 AM - 08:20 AM	59.5	58.3	10:55 AM - 11:00 AM	58.4	57.7	01:35 PM - 01:40 PM	59.0
08:20 AM - 08:25 AM	59.0	58.0	11:00 AM - 11:05 AM	58.2	57.2	01:40 PM - 01:45 PM	58.5
08:25 AM - 08:30 AM	58.8	58.0	11:05 AM - 11:10 AM	58.0	57.1	01:45 PM - 01:50 PM	59.0
08:30 AM - 08:35 AM	58.8	58.0	11:10 AM - 11:15 AM	58.5	57.7	01:50 PM - 01:55 PM	58.9
08:35 AM - 08:40 AM	58.9	58.1	11:15 AM - 11:20 AM	58.1	57.3	01:55 PM - 02:00 PM	59.6
08:40 AM - 08:45 AM	59.0	58.2	11:20 AM - 11:25 AM	57.9	57.2	02:00 PM - 02:05 PM	59.8
08:45 AM - 08:50 AM	58.7	57.9	11:25 AM - 11:30 AM	57.9	57.1	02:05 PM - 02:10 PM	61.0
08:50 AM - 08:55 AM	58.5	57.7	11:30 AM - 11:35 AM	57.8	57.0	02:10 PM - 02:15 PM	60.8
08:55 AM - 09:00 AM	58.4	57.5	11:35 AM - 11:40 AM	57.9	57.1	02:15 PM - 02:20 PM	60.8
09:00 AM - 09:05 AM	58.3	57.5	11:40 AM - 11:45 AM	57.4	56.8	02:20 PM - 02:25 PM	59.5
09:05 AM - 09:10 AM	58.6	57.7	11:45 AM - 11:50 AM	57.5	56.8	02:25 PM - 02:30 PM	64.7
09:10 AM - 09:15 AM	58.7	57.9	11:50 AM - 11:55 AM	57.3	56.6	02:30 PM - 02:35 PM	63.3
09:15 AM - 09:20 AM	58.7	57.8	11:55 AM - 12:00 PM	60.0	57.8	02:35 PM - 02:40 PM	60.1
09:20 AM - 09:25 AM	58.9	58.2	12:00 PM - 12:05 PM	59.5	58.6	02:40 PM - 02:45 PM	59.5
09:25 AM - 09:30 AM	59.3	58.3	12:05 PM - 12:10 PM	60.3	58.9	02:45 PM - 02:50 PM	59.2
09:30 AM - 09:35 AM	59.4	58.2	12:10 PM - 12:15 PM	58.6	57.5	02:50 PM - 02:55 PM	58.6
09:35 AM - 09:40 AM	59.1	58.3	12:15 PM - 12:20 PM	58.3	57.7	02:55 PM - 03:00 PM	58.1

Approved by

Sariyuth Jitranont  
Assistant General Manager

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**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853668-1

Page 1 of 2

Sample Number		23122968-6									
Parameter		Noise level (Leq 5 min)									
Location		บริเวณด้านใต้ของท่าเรือ (GPS 47P 0671368, 1576143)									
Measurement Date		Nov 25 - Nov 26, 2023									
Measurement by		Thananet Anake									
Sound Level meter		Serial No. 00572552									
Nov 25, 2023		Leq dB(A)	L90 dB(A)	Nov 25, 2023		Leq dB(A)	L90 dB(A)	Nov 25, 2023		Leq dB(A)	L90 dB(A)
03:00 PM - 03:05 PM		57.7	57.0	05:40 PM - 05:45 PM		61.4	60.6	08:20 PM - 08:25 PM		55.9	55.0
03:05 PM - 03:10 PM		58.1	57.3	05:45 PM - 05:50 PM		60.5	59.8	08:25 PM - 08:30 PM		55.6	55.1
03:10 PM - 03:15 PM		58.0	57.2	05:50 PM - 05:55 PM		59.7	58.9	08:30 PM - 08:35 PM		55.8	55.1
03:15 PM - 03:20 PM		58.2	57.4	05:55 PM - 06:00 PM		58.9	58.2	08:35 PM - 08:40 PM		55.7	55.1
03:20 PM - 03:25 PM		58.0	57.2	06:00 PM - 06:05 PM		58.1	57.4	08:40 PM - 08:45 PM		55.8	55.1
03:25 PM - 03:30 PM		58.3	57.5	06:05 PM - 06:10 PM		57.9	57.1	08:45 PM - 08:50 PM		55.6	55.1
03:30 PM - 03:35 PM		58.5	57.8	06:10 PM - 06:15 PM		57.1	56.4	08:50 PM - 08:55 PM		55.8	55.2
03:35 PM - 03:40 PM		58.4	57.5	06:15 PM - 06:20 PM		57.4	56.7	08:55 PM - 09:00 PM		55.6	55.0
03:40 PM - 03:45 PM		58.9	57.6	06:20 PM - 06:25 PM		57.1	56.5	09:00 PM - 09:05 PM		55.5	54.8
03:45 PM - 03:50 PM		58.3	57.4	06:25 PM - 06:30 PM		56.8	56.1	09:05 PM - 09:10 PM		55.6	55.0
03:50 PM - 03:55 PM		58.4	57.6	06:30 PM - 06:35 PM		56.7	56.0	09:10 PM - 09:15 PM		56.4	55.3
03:55 PM - 04:00 PM		58.0	57.2	06:35 PM - 06:40 PM		56.8	56.0	09:15 PM - 09:20 PM		57.1	55.4
04:00 PM - 04:05 PM		58.6	57.3	06:40 PM - 06:45 PM		56.6	55.8	09:20 PM - 09:25 PM		57.6	55.5
04:05 PM - 04:10 PM		58.1	57.2	06:45 PM - 06:50 PM		56.5	55.8	09:25 PM - 09:30 PM		58.3	55.7
04:10 PM - 04:15 PM		58.6	57.3	06:50 PM - 06:55 PM		56.6	55.9	09:30 PM - 09:35 PM		57.5	55.4
04:15 PM - 04:20 PM		58.2	57.2	06:55 PM - 07:00 PM		56.4	55.4	09:35 PM - 09:40 PM		57.1	55.6
04:20 PM - 04:25 PM		58.5	57.3	07:00 PM - 07:05 PM		55.6	54.8	09:40 PM - 09:45 PM		56.3	55.1
04:25 PM - 04:30 PM		57.9	57.0	07:05 PM - 07:10 PM		55.2	54.6	09:45 PM - 09:50 PM		56.2	55.2
04:30 PM - 04:35 PM		58.0	56.7	07:10 PM - 07:15 PM		55.3	54.7	09:50 PM - 09:55 PM		56.0	55.2
04:35 PM - 04:40 PM		57.2	56.5	07:15 PM - 07:20 PM		55.6	54.8	09:55 PM - 10:00 PM		55.8	55.1
04:40 PM - 04:45 PM		57.4	56.6	07:20 PM - 07:25 PM		55.4	54.7	10:00 PM - 10:05 PM		55.8	55.1
04:45 PM - 04:50 PM		57.6	56.5	07:25 PM - 07:30 PM		55.5	54.9	10:05 PM - 10:10 PM		56.4	55.3
04:50 PM - 04:55 PM		57.7	56.7	07:30 PM - 07:35 PM		55.5	54.7	10:10 PM - 10:15 PM		56.7	55.2
04:55 PM - 05:00 PM		57.8	57.0	07:35 PM - 07:40 PM		56.1	54.8	10:15 PM - 10:20 PM		56.0	55.0
05:00 PM - 05:05 PM		58.0	57.3	07:40 PM - 07:45 PM		56.1	54.7	10:20 PM - 10:25 PM		55.8	55.1
05:05 PM - 05:10 PM		58.0	56.9	07:45 PM - 07:50 PM		55.7	54.9	10:25 PM - 10:30 PM		56.1	55.7
05:10 PM - 05:15 PM		59.5	57.2	07:50 PM - 07:55 PM		56.7	54.9	10:30 PM - 10:35 PM		56.2	55.7
05:15 PM - 05:20 PM		60.5	58.9	07:55 PM - 08:00 PM		56.3	55.3	10:35 PM - 10:40 PM		56.3	55.8
05:20 PM - 05:25 PM		58.3	56.8	08:00 PM - 08:05 PM		57.9	55.3	10:40 PM - 10:45 PM		56.4	55.8
05:25 PM - 05:30 PM		60.2	59.3	08:05 PM - 08:10 PM		57.5	55.4	10:45 PM - 10:50 PM		56.3	55.8
05:30 PM - 05:35 PM		60.7	59.7	08:10 PM - 08:15 PM		55.9	55.3	10:50 PM - 10:55 PM		56.4	55.8
05:35 PM - 05:40 PM		61.3	60.5	08:15 PM - 08:20 PM		56.6	55.2	10:55 PM - 11:00 PM		56.3	55.5

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Approved by

Sarayuht Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853668-1

Page 2 of 3

Sample Number		23122968-6										
Location		ขั้ววัดที่ถนนกาญจนาภิเษก (GPS 47P 0671368, 1576143)										
Measurement Date		Nov 25 - Nov 26, 2023										
Measurement by		Thanat Anake										
Sound Level meter		Serial No. 00572552										
Nov 25	Nov 26	2023	Leq dB(A)	L90 dB(A)	Nov 26	2023	Leq dB(A)	L90 dB(A)	Nov 26	2023	Leq dB(A)	L90 dB(A)
11:00 PM - 11:05 PM			57.2	56.1	01:40 AM - 01:45 AM		56.5	55.8	04:20 AM - 04:25 AM		57.5	56.1
11:05 PM - 11:10 PM			59.1	56.0	01:45 AM - 01:50 AM		56.2	55.5	04:25 AM - 04:30 AM		57.2	56.2
11:10 PM - 11:15 PM			56.3	55.7	01:50 AM - 01:55 AM		56.6	55.6	04:30 AM - 04:35 AM		57.1	56.2
11:15 PM - 11:20 PM			56.3	55.6	01:55 AM - 02:00 AM		56.6	55.6	04:35 AM - 04:40 AM		57.8	56.3
11:20 PM - 11:25 PM			56.3	55.5	02:00 AM - 02:05 AM		56.7	55.4	04:40 AM - 04:45 AM		57.9	56.7
11:25 PM - 11:30 PM			56.2	55.4	02:05 AM - 02:10 AM		56.0	55.4	04:45 AM - 04:50 AM		58.1	56.9
11:30 PM - 11:35 PM			56.1	55.5	02:10 AM - 02:15 AM		55.9	55.3	04:50 AM - 04:55 AM		58.4	57.1
11:35 PM - 11:40 PM			55.9	55.4	02:15 AM - 02:20 AM		56.0	55.3	04:55 AM - 05:00 AM		58.4	57.0
11:40 PM - 11:45 PM			55.8	55.4	02:20 AM - 02:25 AM		55.8	55.3	05:00 AM - 05:05 AM		64.3	61.2
11:45 PM - 11:50 PM			55.9	55.4	02:25 AM - 02:30 AM		56.1	55.3	05:05 AM - 05:10 AM		64.4	61.2
11:50 PM - 11:55 PM			55.9	55.3	02:30 AM - 02:35 AM		56.2	55.5	05:10 AM - 05:15 AM		64.5	61.7
11:55 PM - 12:00 AM			55.8	55.3	02:35 AM - 02:40 AM		56.2	55.5	05:15 AM - 05:20 AM		65.4	62.3
12:00 AM - 12:05 AM			56.3	55.3	02:40 AM - 02:45 AM		56.1	55.3	05:20 AM - 05:25 AM		65.7	63.3
12:05 AM - 12:10 AM			55.8	55.3	02:45 AM - 02:50 AM		55.8	55.3	05:25 AM - 05:30 AM		65.6	63.0
12:10 AM - 12:15 AM			55.8	55.3	02:50 AM - 02:55 AM		55.8	55.3	05:30 AM - 05:35 AM		65.4	62.9
12:15 AM - 12:20 AM			55.7	55.3	02:55 AM - 03:00 AM		55.6	55.1	05:35 AM - 05:40 AM		65.4	62.7
12:20 AM - 12:25 AM			55.7	55.2	03:00 AM - 03:05 AM		55.8	55.3	05:40 AM - 05:45 AM		65.1	62.5
12:25 AM - 12:30 AM			55.8	55.3	03:05 AM - 03:10 AM		55.7	55.2	05:45 AM - 05:50 AM		65.8	63.0
12:30 AM - 12:35 AM			56.1	55.4	03:10 AM - 03:15 AM		55.8	55.3	05:50 AM - 05:55 AM		66.1	64.1
12:35 AM - 12:40 AM			55.8	55.3	03:15 AM - 03:20 AM		56.1	55.3	05:55 AM - 06:00 AM		67.0	64.6
12:40 AM - 12:45 AM			55.8	55.3	03:20 AM - 03:25 AM		56.0	55.3	06:00 AM - 06:05 AM		63.6	60.9
12:45 AM - 12:50 AM			55.7	55.1	03:25 AM - 03:30 AM		56.1	55.5	06:05 AM - 06:10 AM		62.6	59.4
12:50 AM - 12:55 AM			55.7	55.2	03:30 AM - 03:35 AM		55.8	55.2	06:10 AM - 06:15 AM		59.5	58.1
12:55 AM - 01:00 AM			55.9	55.3	03:35 AM - 03:40 AM		55.8	55.3	06:15 AM - 06:20 AM		58.4	56.7
01:00 AM - 01:05 AM			55.8	55.3	03:40 AM - 03:45 AM		55.7	55.3	06:20 AM - 06:25 AM		58.0	56.2
01:05 AM - 01:10 AM			55.7	55.2	03:45 AM - 03:50 AM		55.8	55.3	06:25 AM - 06:30 AM		56.6	55.8
01:10 AM - 01:15 AM			55.9	55.3	03:50 AM - 03:55 AM		56.3	55.4	06:30 AM - 06:35 AM		58.5	55.9
01:15 AM - 01:20 AM			56.4	55.6	03:55 AM - 04:00 AM		56.2	55.5	06:35 AM - 06:40 AM		56.5	55.6
01:20 AM - 01:25 AM			56.3	55.7	04:00 AM - 04:05 AM		56.2	55.5	06:40 AM - 06:45 AM		56.9	55.5
01:25 AM - 01:30 AM			56.4	55.8	04:05 AM - 04:10 AM		56.2	55.6	06:45 AM - 06:50 AM		56.8	55.5
01:30 AM - 01:35 AM			56.3	55.6	04:10 AM - 04:15 AM		56.1	55.6	06:50 AM - 06:55 AM		56.6	55.7
01:35 AM - 01:40 AM			57.4	55.7	04:15 AM - 04:20 AM		56.6	55.6	06:55 AM - 07:00 AM		56.6	55.6

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Approved by

Sarayuht Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853668-1

Page 3 of 3

Sample Number		23122968-6		Noise Level (Leq 5 min)		Nov 25 - Nov 26, 2023		Thanaat Anake		Serial No. 00572552	
Parameter		Location		Measurement Date		Sound Level meter					
Nov 26, 2023		Time		Leq dB(A)		Nov 26, 2023		Time		Leq dB(A)	
07:00 AM - 07:05 AM				57.4		09:40 AM - 09:45 AM				56.8	
07:05 AM - 07:10 AM				58.1		09:45 AM - 09:50 AM				57.5	
07:10 AM - 07:15 AM				56.4		09:50 AM - 09:55 AM				57.0	
07:15 AM - 07:20 AM				55.6		09:55 AM - 10:00 AM				55.1	
07:20 AM - 07:25 AM				56.0		10:00 AM - 10:05 AM				55.5	
07:25 AM - 07:30 AM				56.4		10:05 AM - 10:10 AM				55.7	
07:30 AM - 07:35 AM				57.3		10:10 AM - 10:15 AM				55.8	
07:35 AM - 07:40 AM				56.7		10:15 AM - 10:20 AM				55.7	
07:40 AM - 07:45 AM				58.3		10:20 AM - 10:25 AM				55.5	
07:45 AM - 07:50 AM				56.4		10:25 AM - 10:30 AM				56.0	
07:50 AM - 07:55 AM				57.1		10:30 AM - 10:35 AM				56.7	
07:55 AM - 08:00 AM				57.1		10:35 AM - 10:40 AM				56.6	
08:00 AM - 08:05 AM				56.8		10:40 AM - 10:45 AM				56.1	
08:05 AM - 08:10 AM				55.0		10:45 AM - 10:50 AM				55.1	
08:10 AM - 08:15 AM				56.9		10:50 AM - 10:55 AM				56.2	
08:15 AM - 08:20 AM				56.3		10:55 AM - 11:00 AM				56.4	
08:20 AM - 08:25 AM				56.4		11:00 AM - 11:05 AM				55.8	
08:25 AM - 08:30 AM				56.6		11:05 AM - 11:10 AM				55.8	
08:30 AM - 08:35 AM				56.6		11:10 AM - 11:15 AM				56.7	
08:35 AM - 08:40 AM				56.4		11:15 AM - 11:20 AM				57.1	
08:40 AM - 08:45 AM				56.0		11:20 AM - 11:25 AM				56.1	
08:45 AM - 08:50 AM				56.5		11:25 AM - 11:30 AM				56.4	
08:50 AM - 08:55 AM				56.9		11:30 AM - 11:35 AM				55.8	
08:55 AM - 09:00 AM				56.9		11:35 AM - 11:40 AM				56.0	
09:00 AM - 09:05 AM				57.2		11:40 AM - 11:45 AM				55.8	
09:05 AM - 09:10 AM				57.2		11:45 AM - 11:50 AM				55.4	
09:10 AM - 09:15 AM				56.8		11:50 AM - 11:55 AM				55.4	
09:15 AM - 09:20 AM				56.9		11:55 AM - 12:00 PM				55.5	
09:20 AM - 09:25 AM				56.3		12:00 PM - 12:05 PM				55.9	
09:25 AM - 09:30 AM				56.5		12:05 PM - 12:10 PM				55.7	
09:30 AM - 09:35 AM				57.1		12:10 PM - 12:15 PM				55.5	
09:35 AM - 09:40 AM				57.7		12:15 PM - 12:20 PM				55.9	

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Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853669-1

Page 1 of 3

Sample Number		23122968-7									
Parameter		Noise Level (Leq 5 min)									
Location		บริเวณด้านหน้าวัดสวนหลวง (GPS 47P 0671368, 1576143)									
Measurement Date		Nov 26 - Nov 27, 2023									
Measurement by		Thananot Anake									
Sound Level meter		Serial No. 00572552									
Nov 26, 2023		Leq dB(A)		L90 dB(A)		Nov 26, 2023		Leq dB(A)		L90 dB(A)	
Time		Time		Time		Time		Time		Time	
03:00 PM - 03:05 PM		55.6	54.7	61.1	60.1	05:40 PM - 05:45 PM	55.0	54.4	08:20 PM - 08:25 PM	55.7	55.0
03:05 PM - 03:10 PM		55.5	54.7	60.2	59.3	05:45 PM - 05:50 PM	54.9	54.3	08:25 PM - 08:30 PM	55.6	54.9
03:10 PM - 03:15 PM		55.9	54.7	59.3	58.2	05:50 PM - 05:55 PM	54.7	54.0	08:30 PM - 08:35 PM	55.3	54.6
03:15 PM - 03:20 PM		55.9	54.6	64.0	57.2	05:55 PM - 06:00 PM	54.6	54.0	08:35 PM - 08:40 PM	55.2	54.4
03:20 PM - 03:25 PM		55.6	54.5	59.2	57.7	06:00 PM - 06:05 PM	54.5	54.0	08:40 PM - 08:45 PM	55.1	54.5
03:25 PM - 03:30 PM		55.3	54.3	57.7	57.0	06:05 PM - 06:10 PM	54.3	54.0	08:45 PM - 08:50 PM	55.5	54.5
03:30 PM - 03:35 PM		54.9	54.2	57.3	56.7	06:10 PM - 06:15 PM	54.2	54.0	08:50 PM - 08:55 PM	55.5	54.7
03:35 PM - 03:40 PM		54.8	54.1	57.0	56.4	06:15 PM - 06:20 PM	54.0	54.0	08:55 PM - 09:00 PM	56.4	55.0
03:40 PM - 03:45 PM		55.3	54.4	56.5	55.7	06:20 PM - 06:25 PM	54.0	54.0	09:00 PM - 09:05 PM	56.1	54.8
03:45 PM - 03:50 PM		55.2	54.4	55.9	55.2	06:25 PM - 06:30 PM	53.9	54.0	09:05 PM - 09:10 PM	56.3	54.8
03:50 PM - 03:55 PM		55.3	54.6	55.6	55.0	06:30 PM - 06:35 PM	54.0	54.5	09:10 PM - 09:15 PM	55.3	54.6
03:55 PM - 04:00 PM		55.6	54.8	55.9	54.8	06:35 PM - 06:40 PM	54.0	54.5	09:15 PM - 09:20 PM	55.6	54.8
04:00 PM - 04:05 PM		55.3	54.5	55.2	54.7	06:40 PM - 06:45 PM	54.0	54.5	09:20 PM - 09:25 PM	55.6	54.7
04:05 PM - 04:10 PM		55.2	54.6	55.1	54.6	06:45 PM - 06:50 PM	54.0	54.5	09:25 PM - 09:30 PM	55.4	54.6
04:10 PM - 04:15 PM		55.3	54.6	54.9	54.5	06:50 PM - 06:55 PM	54.0	54.5	09:30 PM - 09:35 PM	55.8	54.8
04:15 PM - 04:20 PM		56.0	54.5	55.5	54.6	06:55 PM - 07:00 PM	54.0	54.5	09:35 PM - 09:40 PM	55.7	54.8
04:20 PM - 04:25 PM		55.4	53.8	58.2	56.6	07:00 PM - 07:05 PM	53.9	54.0	09:40 PM - 09:45 PM	55.5	54.6
04:25 PM - 04:30 PM		55.6	53.9	55.1	54.5	07:05 PM - 07:10 PM	53.7	54.0	09:45 PM - 09:50 PM	55.6	54.7
04:30 PM - 04:35 PM		55.4	53.7	55.0	54.4	07:10 PM - 07:15 PM	53.7	54.0	09:50 PM - 09:55 PM	55.4	54.5
04:35 PM - 04:40 PM		55.3	53.8	55.9	54.6	07:15 PM - 07:20 PM	53.7	54.0	09:55 PM - 10:00 PM	55.8	54.8
04:40 PM - 04:45 PM		55.5	53.7	55.1	54.4	07:20 PM - 07:25 PM	53.7	54.0	10:00 PM - 10:05 PM	56.9	55.1
04:45 PM - 04:50 PM		55.1	53.7	55.8	54.3	07:25 PM - 07:30 PM	53.7	54.0	10:05 PM - 10:10 PM	57.5	55.5
04:50 PM - 04:55 PM		54.5	53.7	55.3	54.7	07:30 PM - 07:35 PM	53.7	54.0	10:10 PM - 10:15 PM	55.8	54.9
04:55 PM - 05:00 PM		55.3	54.0	55.8	54.6	07:35 PM - 07:40 PM	53.7	54.0	10:15 PM - 10:20 PM	56.5	54.8
05:00 PM - 05:05 PM		55.2	54.1	55.5	54.9	07:40 PM - 07:45 PM	53.7	54.0	10:20 PM - 10:25 PM	55.6	54.8
05:05 PM - 05:10 PM		56.0	54.2	56.4	54.7	07:45 PM - 07:50 PM	53.7	54.0	10:25 PM - 10:30 PM	55.2	54.5
05:10 PM - 05:15 PM		56.7	55.3	55.4	54.5	07:50 PM - 07:55 PM	53.7	54.0	10:30 PM - 10:35 PM	55.3	54.6
05:15 PM - 05:20 PM		57.9	56.8	57.0	54.4	07:55 PM - 08:00 PM	53.7	54.0	10:35 PM - 10:40 PM	55.6	54.7
05:20 PM - 05:25 PM		59.1	57.5	59.0	55.5	08:00 PM - 08:05 PM	53.7	54.0	10:40 PM - 10:45 PM	55.6	54.7
05:25 PM - 05:30 PM		60.1	59.1	57.8	56.2	08:05 PM - 08:10 PM	53.7	54.0	10:45 PM - 10:50 PM	55.3	54.6
05:30 PM - 05:35 PM		60.3	59.5	56.3	55.7	08:10 PM - 08:15 PM	53.7	54.0	10:50 PM - 10:55 PM	55.2	54.7
05:35 PM - 05:40 PM		60.9	59.8	56.1	55.2	08:15 PM - 08:20 PM	53.7	54.0	10:55 PM - 11:00 PM	55.2	54.5



## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122968

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number : 2853669-1

Page 2 of 3

Sample Number  
23122968-7  
Parameter  
Noise Level (Leq 5 min)  
Location  
บริเวณด้านหน้าด้านซ้ายของถนน (GPS 47P 0671368, 1576143)  
Measurement Date  
Nov 26 - Nov 27, 2023  
Measurement by  
Thananatt Anake  
Sound Level meter  
Serial No. 00572552

Nov 26 - Nov 27, 2023	Leq dB(A)	Nov 27, 2023	Leq dB(A)	Nov 27, 2023	Leq dB(A)	L90 dB(A)
11:00 PM - 11:05 PM	55.3	01:40 AM - 01:45 AM	54.4	04:20 AM - 04:25 AM	57.1	55.6
11:05 PM - 11:10 PM	55.3	01:45 AM - 01:50 AM	54.5	04:25 AM - 04:30 AM	57.3	55.9
11:10 PM - 11:15 PM	55.2	01:50 AM - 01:55 AM	54.5	04:30 AM - 04:35 AM	57.1	55.8
11:15 PM - 11:20 PM	55.4	01:55 AM - 02:00 AM	54.5	04:35 AM - 04:40 AM	57.1	55.9
11:20 PM - 11:25 PM	55.1	02:00 AM - 02:05 AM	54.4	04:40 AM - 04:45 AM	61.6	57.0
11:25 PM - 11:30 PM	54.9	02:05 AM - 02:10 AM	54.2	04:45 AM - 04:50 AM	63.3	59.9
11:30 PM - 11:35 PM	55.9	02:10 AM - 02:15 AM	55.6	04:50 AM - 04:55 AM	64.2	60.4
11:35 PM - 11:40 PM	56.4	02:15 AM - 02:20 AM	54.7	04:55 AM - 05:00 AM	64.1	61.5
11:40 PM - 11:45 PM	56.0	02:20 AM - 02:25 AM	55.3	05:00 AM - 05:05 AM	63.8	61.2
11:45 PM - 11:50 PM	55.2	02:25 AM - 02:30 AM	55.1	05:05 AM - 05:10 AM	65.1	61.9
11:50 PM - 11:55 PM	55.0	02:30 AM - 02:35 AM	55.0	05:10 AM - 05:15 AM	64.9	62.0
11:55 PM - 12:00 AM	56.1	02:35 AM - 02:40 AM	54.3	05:15 AM - 05:20 AM	65.6	62.6
12:00 AM - 12:05 AM	56.6	02:40 AM - 02:45 AM	55.3	05:20 AM - 05:25 AM	66.1	63.1
12:05 AM - 12:10 AM	56.3	02:45 AM - 02:50 AM	54.8	05:25 AM - 05:30 AM	65.9	63.6
12:10 AM - 12:15 AM	56.3	02:50 AM - 02:55 AM	54.7	05:30 AM - 05:35 AM	65.4	63.2
12:15 AM - 12:20 AM	56.2	02:55 AM - 03:00 AM	55.0	05:35 AM - 05:40 AM	66.2	63.7
12:20 AM - 12:25 AM	56.1	03:00 AM - 03:05 AM	55.1	05:40 AM - 05:45 AM	65.2	62.2
12:25 AM - 12:30 AM	56.4	03:05 AM - 03:10 AM	55.2	05:45 AM - 05:50 AM	66.0	63.9
12:30 AM - 12:35 AM	56.0	03:10 AM - 03:15 AM	55.1	05:50 AM - 05:55 AM	65.8	63.7
12:35 AM - 12:40 AM	56.4	03:15 AM - 03:20 AM	55.3	05:55 AM - 06:00 AM	66.1	64.2
12:40 AM - 12:45 AM	56.5	03:20 AM - 03:25 AM	55.4	06:00 AM - 06:05 AM	64.4	61.1
12:45 AM - 12:50 AM	56.3	03:25 AM - 03:30 AM	55.4	06:05 AM - 06:10 AM	64.6	61.8
12:50 AM - 12:55 AM	56.1	03:30 AM - 03:35 AM	55.2	06:10 AM - 06:15 AM	63.1	60.4
12:55 AM - 01:00 AM	56.0	03:35 AM - 03:40 AM	55.4	06:15 AM - 06:20 AM	61.1	58.7
01:00 AM - 01:05 AM	56.2	03:40 AM - 03:45 AM	55.6	06:20 AM - 06:25 AM	59.2	56.7
01:05 AM - 01:10 AM	56.2	03:45 AM - 03:50 AM	55.6	06:25 AM - 06:30 AM	57.2	55.6
01:10 AM - 01:15 AM	56.2	03:50 AM - 03:55 AM	55.7	06:30 AM - 06:35 AM	59.0	56.4
01:15 AM - 01:20 AM	56.2	03:55 AM - 04:00 AM	56.2	06:35 AM - 06:40 AM	58.4	56.5
01:20 AM - 01:25 AM	56.2	04:00 AM - 04:05 AM	56.6	06:40 AM - 06:45 AM	60.3	56.8
01:25 AM - 01:30 AM	56.1	04:05 AM - 04:10 AM	57.5	06:45 AM - 06:50 AM	61.0	57.0
01:30 AM - 01:35 AM	56.2	04:10 AM - 04:15 AM	56.6	06:50 AM - 06:55 AM	59.2	57.0
01:35 AM - 01:40 AM	56.3	04:15 AM - 04:20 AM	57.0	06:55 AM - 07:00 AM	58.1	58.1

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Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122968

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number : 2853669-1

Page 3 of 3

Sample Number  
23122968-7  
Parameter  
Noise Level (Leq 5 min)  
Location  
บริเวณด้านหน้าด้านซ้ายของถนน (GPS 47P 0671368, 1576143)  
Measurement Date  
Nov 26 - Nov 27, 2023  
Measurement by  
Thananatt Anake  
Sound Level meter  
Serial No. 00572552

Nov 27, 2023	Leq dB(A)	Nov 27, 2023	Leq dB(A)	Nov 27, 2023	Leq dB(A)	L90 dB(A)
07:00 AM - 07:05 AM	60.7	09:40 AM - 09:45 AM	61.2	12:20 PM - 12:25 PM	57.1	56.6
07:05 AM - 07:10 AM	60.9	09:45 AM - 09:50 AM	59.6	12:25 PM - 12:30 PM	57.2	56.6
07:10 AM - 07:15 AM	59.7	09:50 AM - 09:55 AM	59.8	12:30 PM - 12:35 PM	57.6	57.0
07:15 AM - 07:20 AM	59.5	09:55 AM - 10:00 AM	60.5	12:35 PM - 12:40 PM	57.5	57.0
07:20 AM - 07:25 AM	58.8	10:00 AM - 10:05 AM	60.1	12:40 PM - 12:45 PM	58.8	56.8
07:25 AM - 07:30 AM	58.4	10:05 AM - 10:10 AM	58.7	12:45 PM - 12:50 PM	57.8	56.7
07:30 AM - 07:35 AM	59.2	10:10 AM - 10:15 AM	58.9	12:50 PM - 12:55 PM	57.0	56.2
07:35 AM - 07:40 AM	59.0	10:15 AM - 10:20 AM	58.1	12:55 PM - 01:00 PM	57.4	56.4
07:40 AM - 07:45 AM	58.2	10:20 AM - 10:25 AM	58.5	01:00 PM - 01:05 PM	57.2	56.4
07:45 AM - 07:50 AM	58.2	10:25 AM - 10:30 AM	58.9	01:05 PM - 01:10 PM	57.2	56.3
07:50 AM - 07:55 AM	58.1	10:30 AM - 10:35 AM	59.1	01:10 PM - 01:15 PM	56.7	56.2
07:55 AM - 08:00 AM	57.6	10:35 AM - 10:40 AM	58.4	01:15 PM - 01:20 PM	58.4	57.0
08:00 AM - 08:05 AM	59.2	10:40 AM - 10:45 AM	58.5	01:20 PM - 01:25 PM	58.2	56.9
08:05 AM - 08:10 AM	59.5	10:45 AM - 10:50 AM	58.9	01:25 PM - 01:30 PM	58.1	56.9
08:10 AM - 08:15 AM	59.7	10:50 AM - 10:55 AM	58.1	01:30 PM - 01:35 PM	58.2	56.6
08:15 AM - 08:20 AM	60.5	10:55 AM - 11:00 AM	58.0	01:35 PM - 01:40 PM	58.1	56.4
08:20 AM - 08:25 AM	62.3	11:00 AM - 11:05 AM	59.8	01:40 PM - 01:45 PM	56.9	56.0
08:25 AM - 08:30 AM	59.8	11:05 AM - 11:10 AM	59.3	01:45 PM - 01:50 PM	57.9	56.0
08:30 AM - 08:35 AM	59.4	11:10 AM - 11:15 AM	59.2	01:50 PM - 01:55 PM	58.2	56.8
08:35 AM - 08:40 AM	58.7	11:15 AM - 11:20 AM	59.1	01:55 PM - 02:00 PM	59.3	58.3
08:40 AM - 08:45 AM	59.2	11:20 AM - 11:25 AM	58.1	02:00 PM - 02:05 PM	58.9	58.0
08:45 AM - 08:50 AM	61.4	11:25 AM - 11:30 AM	58.6	02:05 PM - 02:10 PM	57.5	56.9
08:50 AM - 08:55 AM	60.1	11:30 AM - 11:35 AM	57.2	02:10 PM - 02:15 PM	57.7	57.0
08:55 AM - 09:00 AM	60.7	11:35 AM - 11:40 AM	57.6	02:15 PM - 02:20 PM	57.5	56.9
09:00 AM - 09:05 AM	64.2	11:40 AM - 11:45 AM	57.6	02:20 PM - 02:25 PM	57.7	57.1
09:05 AM - 09:10 AM	59.2	11:45 AM - 11:50 AM	57.3	02:25 PM - 02:30 PM	57.7	57.1
09:10 AM - 09:15 AM	59.4	11:50 AM - 11:55 AM	57.6	02:30 PM - 02:35 PM	57.7	57.0
09:15 AM - 09:20 AM	59.3	11:55 AM - 12:00 PM	57.5	02:35 PM - 02:40 PM	57.6	57.0
09:20 AM - 09:25 AM	59.1	12:00 PM - 12:05 PM	57.5	02:40 PM - 02:45 PM	57.6	57.1
09:25 AM - 09:30 AM	61.3	12:05 PM - 12:10 PM	57.2	02:45 PM - 02:50 PM	57.4	56.9
09:30 AM - 09:35 AM	61.2	12:10 PM - 12:15 PM	57.2	02:50 PM - 02:55 PM	57.8	57.2
09:35 AM - 09:40 AM	61.8	12:15 PM - 12:20 PM	57.1	02:55 PM - 03:00 PM	58.9	57.9

Approved by

Sarayuth Jitranont  
Assistant General Manager

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**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

Page 1 of 2

Sample Number	23122968-8	Leq	L90	Nov 20, 2023	Leq	L90
Parameter	Noise Level (Leq 5 min)	dB(A)	dB(A)	Time	dB(A)	dB(A)
Location	วัดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)					
Measurement Date	Nov 20 - Nov 21, 2023					
Measurement by	Thanat Anake					
Sound Level meter	Serial No. 597156					
11:00 AM - 11:05 AM	48.5	44.6	01:40 PM - 01:45 PM	47.4	43.2	45.6
11:05 AM - 11:10 AM	53.8	48.3	01:45 PM - 01:50 PM	47.1	44.6	44.6
11:10 AM - 11:15 AM	50.6	45.2	01:50 PM - 01:55 PM	47.0	45.1	44.2
11:15 AM - 11:20 AM	48.6	43.7	01:55 PM - 02:00 PM	46.9	44.2	46.7
11:20 AM - 11:25 AM	48.8	44.5	02:00 PM - 02:05 PM	45.9	43.1	46.5
11:25 AM - 11:30 AM	47.8	44.3	02:05 PM - 02:10 PM	46.6	44.4	45.8
11:30 AM - 11:35 AM	49.6	45.2	02:10 PM - 02:15 PM	48.2	45.1	46.0
11:35 AM - 11:40 AM	50.4	46.0	02:15 PM - 02:20 PM	48.5	45.8	50.6
11:40 AM - 11:45 AM	50.0	46.6	02:20 PM - 02:25 PM	48.9	46.4	45.5
11:45 AM - 11:50 AM	48.5	44.8	02:25 PM - 02:30 PM	48.1	45.6	45.2
11:50 AM - 11:55 AM	48.4	44.4	02:30 PM - 02:35 PM	48.1	45.1	44.6
11:55 AM - 12:00 PM	47.4	44.0	02:35 PM - 02:40 PM	46.0	44.4	46.9
12:00 PM - 12:05 PM	48.7	44.8	02:40 PM - 02:45 PM	53.6	46.7	49.1
12:05 PM - 12:10 PM	50.0	46.3	02:45 PM - 02:50 PM	51.1	47.6	43.2
12:10 PM - 12:15 PM	48.4	44.0	02:50 PM - 02:55 PM	50.2	47.8	42.4
12:15 PM - 12:20 PM	48.7	43.8	02:55 PM - 03:00 PM	53.2	47.8	43.5
12:20 PM - 12:25 PM	49.1	45.0	03:00 PM - 03:05 PM	50.5	48.2	43.7
12:25 PM - 12:30 PM	50.7	46.9	03:05 PM - 03:10 PM	50.6	47.1	43.6
12:30 PM - 12:35 PM	50.9	45.6	03:10 PM - 03:15 PM	50.0	46.1	45.2
12:35 PM - 12:40 PM	49.6	45.3	03:15 PM - 03:20 PM	49.3	46.0	47.4
12:40 PM - 12:45 PM	53.1	45.5	03:20 PM - 03:25 PM	49.0	45.9	43.4
12:45 PM - 12:50 PM	49.2	46.1	03:25 PM - 03:30 PM	51.6	45.7	48.8
12:50 PM - 12:55 PM	48.9	43.5	03:30 PM - 03:35 PM	52.4	45.0	43.8
12:55 PM - 01:00 PM	50.4	47.3	03:35 PM - 03:40 PM	54.5	53.5	44.6
01:00 PM - 01:05 PM	49.7	47.1	03:40 PM - 03:45 PM	51.4	47.3	45.1
01:05 PM - 01:10 PM	48.9	45.7	03:45 PM - 03:50 PM	51.3	46.3	49.1
01:10 PM - 01:15 PM	46.5	44.5	03:50 PM - 03:55 PM	57.7	46.3	45.2
01:15 PM - 01:20 PM	48.0	44.5	03:55 PM - 04:00 PM	57.9	47.9	43.7
01:20 PM - 01:25 PM	47.0	44.7	04:00 PM - 04:05 PM	50.6	46.5	56.1
01:25 PM - 01:30 PM	47.1	43.3	04:05 PM - 04:10 PM	49.4	45.8	48.7
01:30 PM - 01:35 PM	46.5	43.2	04:10 PM - 04:15 PM	48.7	45.4	49.8
01:35 PM - 01:40 PM	47.6	43.9	04:15 PM - 04:20 PM	47.3	44.2	46.2

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Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

Page 2 of 3

Sample Number	23122968-8	Leq	L90	Nov 20 - Nov 21, 2023	Leq	L90
Parameter	Noise Level (Leq 5 min)	dB(A)	dB(A)	Time	dB(A)	dB(A)
Location	วัดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)					
Measurement Date	Nov 20 - Nov 21, 2023					
Measurement by	Thanat Anake					
Sound Level meter	Serial No. 597156					
07:00 PM - 07:05 PM	48.3	45.3	09:40 PM - 09:45 PM	44.6	41.2	45.6
07:05 PM - 07:10 PM	48.1	42.8	09:45 PM - 09:50 PM	44.3	42.2	45.5
07:10 PM - 07:15 PM	49.8	46.2	09:50 PM - 09:55 PM	49.3	43.9	53.2
07:15 PM - 07:20 PM	48.6	45.7	09:55 PM - 10:00 PM	50.3	44.1	46.9
07:20 PM - 07:25 PM	48.7	45.9	10:00 PM - 10:05 PM	47.2	42.9	50.8
07:25 PM - 07:30 PM	47.7	45.1	10:05 PM - 10:10 PM	46.8	41.7	47.7
07:30 PM - 07:35 PM	53.1	45.6	10:10 PM - 10:15 PM	46.3	41.5	42.9
07:35 PM - 07:40 PM	50.7	46.9	10:15 PM - 10:20 PM	47.2	42.8	45.1
07:40 PM - 07:45 PM	51.2	46.7	10:20 PM - 10:25 PM	46.9	42.9	46.0
07:45 PM - 07:50 PM	50.3	46.0	10:25 PM - 10:30 PM	47.0	42.4	42.9
07:50 PM - 07:55 PM	47.5	44.8	10:30 PM - 10:35 PM	48.7	43.6	47.5
07:55 PM - 08:00 PM	52.7	46.1	10:35 PM - 10:40 PM	48.1	44.7	45.8
08:00 PM - 08:05 PM	50.2	45.5	10:40 PM - 10:45 PM	47.1	43.7	44.1
08:05 PM - 08:10 PM	49.1	44.6	10:45 PM - 10:50 PM	47.7	43.2	43.1
08:10 PM - 08:15 PM	48.5	44.9	10:50 PM - 10:55 PM	47.4	42.9	42.8
08:15 PM - 08:20 PM	48.3	44.5	10:55 PM - 11:00 PM	47.4	41.8	43.3
08:20 PM - 08:25 PM	49.0	44.9	11:00 PM - 11:05 PM	47.0	43.0	42.0
08:25 PM - 08:30 PM	48.3	42.6	11:05 PM - 11:10 PM	48.1	44.6	43.1
08:30 PM - 08:35 PM	47.5	46.4	11:10 PM - 11:15 PM	47.1	43.3	44.3
08:35 PM - 08:40 PM	46.9	44.7	11:15 PM - 11:20 PM	50.2	44.9	49.3
08:40 PM - 08:45 PM	46.9	45.1	11:20 PM - 11:25 PM	51.4	47.0	43.5
08:45 PM - 08:50 PM	47.2	44.8	11:25 PM - 11:30 PM	50.3	45.2	45.9
08:50 PM - 08:55 PM	46.6	44.6	11:30 PM - 11:35 PM	49.3	45.5	46.2
08:55 PM - 09:00 PM	45.7	44.4	11:35 PM - 11:40 PM	50.7	45.7	45.7
09:00 PM - 09:05 PM	45.5	43.7	11:40 PM - 11:45 PM	51.3	45.5	46.4
09:05 PM - 09:10 PM	46.8	45.2	11:45 PM - 11:50 PM	51.2	46.3	43.4
09:10 PM - 09:15 PM	46.5	45.4	11:50 PM - 11:55 PM	50.4	46.1	43.7
09:15 PM - 09:20 PM	46.7	43.7	11:55 PM - 12:00 PM	49.4	45.4	43.4
09:20 PM - 09:25 PM	44.3	42.1	12:00 AM - 12:05 AM	50.2	45.9	44.0
09:25 PM - 09:30 PM	44.5	42.2	12:05 AM - 12:10 AM	50.6	45.8	43.6
09:30 PM - 09:35 PM	44.1	41.7	12:10 AM - 12:15 AM	49.1	45.3	43.2
09:35 PM - 09:40 PM	43.6	40.3	12:15 AM - 12:20 AM	52.1	44.9	42.6

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Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853670-1

Page 3 of 3

**Sample Number** : 23122968-8  
**Parameter** : Noise Level (Leq 5 min)  
**Location** : หมู่ที่ 1 อําเภอยะบะ (GPS 47P 0670718, 1575775)  
**Measurement Date** : Nov 20 - Nov 21, 2023  
**Measurement by** : Thanarat Anake  
**Sound Level meter** : Serial No. 597156

Nov 21, 2023 Time	Leq dB(A)	Nov 21, 2023 Time	Leq dB(A)	Nov 21, 2023 Time	Leq dB(A)	L90 dB(A)
03:00 AM - 03:05 AM	46.2	05:40 AM - 05:45 AM	47.1	08:20 AM - 08:25 AM	51.5	46.9
03:05 AM - 03:10 AM	48.8	05:45 AM - 05:50 AM	47.9	08:25 AM - 08:30 AM	50.8	46.6
03:10 AM - 03:15 AM	49.1	05:50 AM - 05:55 AM	47.6	08:30 AM - 08:35 AM	52.1	47.4
03:15 AM - 03:20 AM	47.8	05:55 AM - 06:00 AM	46.8	08:35 AM - 08:40 AM	50.6	45.8
03:20 AM - 03:25 AM	46.6	06:00 AM - 06:05 AM	47.0	08:40 AM - 08:45 AM	49.8	46.8
03:25 AM - 03:30 AM	52.7	06:05 AM - 06:10 AM	47.2	08:45 AM - 08:50 AM	52.7	46.0
03:30 AM - 03:35 AM	50.4	06:10 AM - 06:15 AM	46.6	08:50 AM - 08:55 AM	48.2	45.3
03:35 AM - 03:40 AM	51.3	06:15 AM - 06:20 AM	45.3	08:55 AM - 09:00 AM	51.4	45.0
03:40 AM - 03:45 AM	48.9	06:20 AM - 06:25 AM	44.1	09:00 AM - 09:05 AM	50.6	46.5
03:45 AM - 03:50 AM	47.9	06:25 AM - 06:30 AM	44.9	09:05 AM - 09:10 AM	49.5	46.8
03:50 AM - 03:55 AM	49.0	06:30 AM - 06:35 AM	44.7	09:10 AM - 09:15 AM	51.1	47.6
03:55 AM - 04:00 AM	49.1	06:35 AM - 06:40 AM	46.2	09:15 AM - 09:20 AM	50.3	47.6
04:00 AM - 04:05 AM	49.1	06:40 AM - 06:45 AM	45.9	09:20 AM - 09:25 AM	49.2	47.1
04:05 AM - 04:10 AM	49.2	06:45 AM - 06:50 AM	46.7	09:25 AM - 09:30 AM	47.9	45.4
04:10 AM - 04:15 AM	50.4	06:50 AM - 06:55 AM	47.1	09:30 AM - 09:35 AM	47.5	45.1
04:15 AM - 04:20 AM	50.8	06:55 AM - 07:00 AM	46.6	09:35 AM - 09:40 AM	47.6	45.0
04:20 AM - 04:25 AM	48.7	07:00 AM - 07:05 AM	47.6	09:40 AM - 09:45 AM	47.3	44.9
04:25 AM - 04:30 AM	49.6	07:05 AM - 07:10 AM	46.5	09:45 AM - 09:50 AM	47.1	44.5
04:30 AM - 04:35 AM	51.8	07:10 AM - 07:15 AM	46.3	09:50 AM - 09:55 AM	47.9	44.7
04:35 AM - 04:40 AM	48.6	07:15 AM - 07:20 AM	48.1	09:55 AM - 10:00 AM	46.3	44.4
04:40 AM - 04:45 AM	49.7	07:20 AM - 07:25 AM	48.0	10:00 AM - 10:05 AM	46.2	44.7
04:45 AM - 04:50 AM	46.0	07:25 AM - 07:30 AM	46.5	10:05 AM - 10:10 AM	47.2	44.5
04:50 AM - 04:55 AM	47.1	07:30 AM - 07:35 AM	47.6	10:10 AM - 10:15 AM	47.7	44.7
04:55 AM - 05:00 AM	48.6	07:35 AM - 07:40 AM	47.9	10:15 AM - 10:20 AM	48.4	44.6
05:00 AM - 05:05 AM	47.0	07:40 AM - 07:45 AM	49.1	10:20 AM - 10:25 AM	47.7	45.3
05:05 AM - 05:10 AM	45.0	07:45 AM - 07:50 AM	47.0	10:25 AM - 10:30 AM	47.7	46.3
05:10 AM - 05:15 AM	44.7	07:50 AM - 07:55 AM	48.5	10:30 AM - 10:35 AM	47.6	45.8
05:15 AM - 05:20 AM	48.1	07:55 AM - 08:00 AM	52.2	10:35 AM - 10:40 AM	48.1	45.9
05:20 AM - 05:25 AM	47.8	08:00 AM - 08:05 AM	54.0	10:40 AM - 10:45 AM	48.2	45.5
05:25 AM - 05:30 AM	48.1	08:05 AM - 08:10 AM	49.4	10:45 AM - 10:50 AM	48.2	46.1
05:30 AM - 05:35 AM	48.3	08:10 AM - 08:15 AM	49.4	10:50 AM - 10:55 AM	50.3	40.9
05:35 AM - 05:40 AM	47.7	08:15 AM - 08:20 AM	50.8	10:55 AM - 11:00 AM	44.7	41.4

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Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853671-1

Page 1 of 3

**Sample Number** : 23122968-9  
**Parameter** : Noise Level (Leq 5 min)  
**Location** : หมู่ที่ 1 อําเภอยะบะ (GPS 47P 0670718, 1575775)  
**Measurement Date** : Nov 21 - Nov 22, 2023  
**Measurement by** : Thanarat Anake  
**Sound Level meter** : Serial No. 597156

Nov 21, 2023 Time	Leq dB(A)	Nov 21, 2023 Time	Leq dB(A)	Nov 21, 2023 Time	Leq dB(A)	L90 dB(A)
11:00 AM - 11:05 AM	55.9	01:40 PM - 01:45 PM	45.0	04:20 PM - 04:25 PM	47.5	41.2
11:05 AM - 11:10 AM	53.2	01:45 PM - 01:50 PM	48.4	04:25 PM - 04:30 PM	52.8	43.0
11:10 AM - 11:15 AM	51.6	01:50 PM - 01:55 PM	47.1	04:30 PM - 04:35 PM	56.9	43.6
11:15 AM - 11:20 AM	54.8	01:55 PM - 02:00 PM	42.9	04:35 PM - 04:40 PM	54.7	43.5
11:20 AM - 11:25 AM	50.5	02:00 PM - 02:05 PM	44.3	04:40 PM - 04:45 PM	49.9	43.5
11:25 AM - 11:30 AM	45.8	02:05 PM - 02:10 PM	44.9	04:45 PM - 04:50 PM	49.9	44.1
11:30 AM - 11:35 AM	46.5	02:10 PM - 02:15 PM	42.9	04:50 PM - 04:55 PM	50.0	45.2
11:35 AM - 11:40 AM	47.5	02:15 PM - 02:20 PM	52.0	04:55 PM - 05:00 PM	49.5	45.8
11:40 AM - 11:45 AM	47.8	02:20 PM - 02:25 PM	55.9	05:00 PM - 05:05 PM	47.4	43.0
11:45 AM - 11:50 AM	47.9	02:25 PM - 02:30 PM	49.8	05:05 PM - 05:10 PM	50.1	42.5
11:50 AM - 11:55 AM	45.7	02:30 PM - 02:35 PM	60.2	05:10 PM - 05:15 PM	47.3	42.6
11:55 AM - 12:00 PM	52.4	02:35 PM - 02:40 PM	53.4	05:15 PM - 05:20 PM	53.1	44.5
12:00 PM - 12:05 PM	50.0	02:40 PM - 02:45 PM	49.1	05:20 PM - 05:25 PM	47.5	43.3
12:05 PM - 12:10 PM	47.1	02:45 PM - 02:50 PM	49.1	05:25 PM - 05:30 PM	50.8	47.7
12:10 PM - 12:15 PM	45.1	02:50 PM - 02:55 PM	53.5	05:30 PM - 05:35 PM	50.0	46.6
12:15 PM - 12:20 PM	62.3	02:55 PM - 03:00 PM	45.5	05:35 PM - 05:40 PM	51.4	44.9
12:20 PM - 12:25 PM	44.6	03:00 PM - 03:05 PM	51.9	05:40 PM - 05:45 PM	47.0	44.4
12:25 PM - 12:30 PM	43.8	03:05 PM - 03:10 PM	50.9	05:45 PM - 05:50 PM	49.2	44.5
12:30 PM - 12:35 PM	43.8	03:10 PM - 03:15 PM	46.6	05:50 PM - 05:55 PM	50.5	44.8
12:35 PM - 12:40 PM	42.9	03:15 PM - 03:20 PM	46.6	05:55 PM - 06:00 PM	49.3	45.8
12:40 PM - 12:45 PM	42.8	03:20 PM - 03:25 PM	52.5	06:00 PM - 06:05 PM	49.3	45.8
12:45 PM - 12:50 PM	43.3	03:25 PM - 03:30 PM	51.2	06:05 PM - 06:10 PM	50.1	45.9
12:50 PM - 12:55 PM	58.4	03:30 PM - 03:35 PM	48.6	06:10 PM - 06:15 PM	54.6	46.5
12:55 PM - 01:00 PM	58.7	03:35 PM - 03:40 PM	51.9	06:15 PM - 06:20 PM	49.8	47.4
01:00 PM - 01:05 PM	51.5	03:40 PM - 03:45 PM	51.6	06:20 PM - 06:25 PM	56.0	46.7
01:05 PM - 01:10 PM	45.4	03:45 PM - 03:50 PM	48.7	06:25 PM - 06:30 PM	48.8	47.2
01:10 PM - 01:15 PM	45.0	03:50 PM - 03:55 PM	45.6	06:30 PM - 06:35 PM	50.6	48.0
01:15 PM - 01:20 PM	45.1	03:55 PM - 04:00 PM	50.1	06:35 PM - 06:40 PM	51.4	48.7
01:20 PM - 01:25 PM	44.1	04:00 PM - 04:05 PM	51.0	06:40 PM - 06:45 PM	53.5	49.6
01:25 PM - 01:30 PM	49.7	04:05 PM - 04:10 PM	51.9	06:45 PM - 06:50 PM	54.0	49.2
01:30 PM - 01:35 PM	49.4	04:10 PM - 04:15 PM	48.6	06:50 PM - 06:55 PM	52.4	50.2
01:35 PM - 01:40 PM	44.2	04:15 PM - 04:20 PM	48.1	06:55 PM - 07:00 PM	51.3	49.9

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Approved by

Sarayuth Jitranont  
Assistant General Manager





**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853671-1

Page 2 of 3

**Sample Number** : 23122968-9  
**Parameter** : Noise Level (Leq 5 min)  
**Location** : หมู่ที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)  
**Measurement Date** : Nov 21 - Nov 22, 2023  
**Measurement by** : Thanarat Anake  
**Sound Level meter** : Serial No. 597156

Nov 21, 2023 Time	Leq dB(A)	Nov 21 - Nov 22, 2023 Time	Leq dB(A)	L90 dB(A)
07:00 PM - 07:05 PM	49.6	09:40 PM - 09:45 PM	50.3	43.5
07:05 PM - 07:10 PM	50.5	09:45 PM - 09:50 PM	49.0	43.6
07:10 PM - 07:15 PM	58.2	09:50 PM - 09:55 PM	46.7	44.1
07:15 PM - 07:20 PM	60.4	09:55 PM - 10:00 PM	48.2	45.0
07:20 PM - 07:25 PM	49.0	10:00 PM - 10:05 PM	45.5	43.2
07:25 PM - 07:30 PM	52.8	10:05 PM - 10:10 PM	52.8	43.7
07:30 PM - 07:35 PM	48.6	10:10 PM - 10:15 PM	46.2	43.3
07:35 PM - 07:40 PM	51.7	10:15 PM - 10:20 PM	47.0	43.1
07:40 PM - 07:45 PM	52.2	10:20 PM - 10:25 PM	49.3	42.3
07:45 PM - 07:50 PM	52.5	10:25 PM - 10:30 PM	48.4	42.8
07:50 PM - 07:55 PM	51.2	10:30 PM - 10:35 PM	52.5	43.4
07:55 PM - 08:00 PM	56.1	10:35 PM - 10:40 PM	45.9	42.1
08:00 PM - 08:05 PM	61.2	10:40 PM - 10:45 PM	47.1	42.0
08:05 PM - 08:10 PM	50.2	10:45 PM - 10:50 PM	48.9	41.6
08:10 PM - 08:15 PM	50.8	10:50 PM - 10:55 PM	46.4	41.6
08:15 PM - 08:20 PM	54.3	10:55 PM - 11:00 PM	45.5	42.4
08:20 PM - 08:25 PM	52.3	11:00 PM - 11:05 PM	49.0	43.0
08:25 PM - 08:30 PM	48.8	11:05 PM - 11:10 PM	47.6	43.6
08:30 PM - 08:35 PM	47.3	11:10 PM - 11:15 PM	46.8	43.9
08:35 PM - 08:40 PM	51.1	11:15 PM - 11:20 PM	46.0	45.7
08:40 PM - 08:45 PM	49.9	11:20 PM - 11:25 PM	46.9	43.8
08:45 PM - 08:50 PM	54.7	11:25 PM - 11:30 PM	46.0	43.8
08:50 PM - 08:55 PM	53.9	11:30 PM - 11:35 PM	46.8	44.3
08:55 PM - 09:00 PM	49.9	11:35 PM - 11:40 PM	46.2	44.6
09:00 PM - 09:05 PM	48.3	11:40 PM - 11:45 PM	53.6	44.4
09:05 PM - 09:10 PM	47.1	11:45 PM - 11:50 PM	52.8	44.3
09:10 PM - 09:15 PM	50.0	11:50 PM - 11:55 PM	48.7	44.2
09:15 PM - 09:20 PM	50.7	11:55 PM - 12:00 AM	45.2	43.6
09:20 PM - 09:25 PM	60.3	12:00 AM - 12:05 AM	44.5	43.2
09:25 PM - 09:30 PM	46.5	12:05 AM - 12:10 AM	45.5	42.5
09:30 PM - 09:35 PM	46.8	12:10 AM - 12:15 AM	44.3	42.4
09:35 PM - 09:40 PM	47.3	12:15 AM - 12:20 AM	47.7	43.1

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Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853671-1

Page 3 of 3

**Sample Number** : 23122968-9  
**Parameter** : Noise Level (Leq 5 min)  
**Location** : หมู่ที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)  
**Measurement Date** : Nov 21 - Nov 22, 2023  
**Measurement by** : Thanarat Anake  
**Sound Level meter** : Serial No. 597156

Nov 22, 2023 Time	Leq dB(A)	L90 dB(A)	Nov 22, 2023 Time	Leq dB(A)	L90 dB(A)
03:00 AM - 03:05 AM	43.1	42.5	05:40 AM - 05:45 AM	48.5	47.2
03:05 AM - 03:10 AM	43.4	42.7	05:45 AM - 05:50 AM	55.8	47.9
03:10 AM - 03:15 AM	43.6	42.5	05:50 AM - 05:55 AM	52.0	46.9
03:15 AM - 03:20 AM	43.7	42.8	05:55 AM - 06:00 AM	51.3	47.3
03:20 AM - 03:25 AM	43.3	42.5	06:00 AM - 06:05 AM	50.8	47.0
03:25 AM - 03:30 AM	45.8	42.7	06:05 AM - 06:10 AM	52.4	47.1
03:30 AM - 03:35 AM	43.3	42.9	06:10 AM - 06:15 AM	53.0	47.9
03:35 AM - 03:40 AM	44.0	43.1	06:15 AM - 06:20 AM	51.0	47.5
03:40 AM - 03:45 AM	45.6	42.5	06:20 AM - 06:25 AM	50.7	48.1
03:45 AM - 03:50 AM	43.7	42.5	06:25 AM - 06:30 AM	50.4	48.1
03:50 AM - 03:55 AM	46.4	43.0	06:30 AM - 06:35 AM	53.1	48.8
03:55 AM - 04:00 AM	45.9	43.5	06:35 AM - 06:40 AM	50.7	48.7
04:00 AM - 04:05 AM	47.3	43.7	06:40 AM - 06:45 AM	53.0	48.7
04:05 AM - 04:10 AM	53.1	43.7	06:45 AM - 06:50 AM	51.8	48.1
04:10 AM - 04:15 AM	51.7	44.0	06:50 AM - 06:55 AM	50.3	47.8
04:15 AM - 04:20 AM	51.9	44.3	06:55 AM - 07:00 AM	50.0	47.8
04:20 AM - 04:25 AM	45.2	44.1	07:00 AM - 07:05 AM	49.8	46.8
04:25 AM - 04:30 AM	48.3	44.6	07:05 AM - 07:10 AM	55.2	46.5
04:30 AM - 04:35 AM	46.0	44.7	07:10 AM - 07:15 AM	49.2	46.4
04:35 AM - 04:40 AM	49.6	44.5	07:15 AM - 07:20 AM	49.0	46.2
04:40 AM - 04:45 AM	45.6	44.3	07:20 AM - 07:25 AM	51.5	46.0
04:45 AM - 04:50 AM	46.7	44.5	07:25 AM - 07:30 AM	48.1	46.0
04:50 AM - 04:55 AM	45.4	43.9	07:30 AM - 07:35 AM	48.6	45.4
04:55 AM - 05:00 AM	47.4	44.6	07:35 AM - 07:40 AM	49.6	45.5
05:00 AM - 05:05 AM	48.3	44.3	07:40 AM - 07:45 AM	49.2	45.0
05:05 AM - 05:10 AM	50.8	45.1	07:45 AM - 07:50 AM	49.4	44.7
05:10 AM - 05:15 AM	46.4	45.1	07:50 AM - 07:55 AM	47.6	44.3
05:15 AM - 05:20 AM	48.6	45.3	07:55 AM - 08:00 AM	47.2	43.8
05:20 AM - 05:25 AM	52.1	45.4	08:00 AM - 08:05 AM	46.1	43.3
05:25 AM - 05:30 AM	48.5	46.2	08:05 AM - 08:10 AM	49.3	43.5
05:30 AM - 05:35 AM	47.6	46.2	08:10 AM - 08:15 AM	49.7	44.3
05:35 AM - 05:40 AM	47.9	46.4	08:15 AM - 08:20 AM	47.4	43.7

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Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853672-1

Page 1 of 2

Sample Number		23122968-10									
Parameter		Noise Level (Leq 5 min)									
Location		วัดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)									
Measurement Date		Nov 22 - Nov 23, 2023									
Measurement by		Thanat Anake									
Sound Level meter		Serial No. 597156									
Nov 22, 2023		Leq		L90		Nov 22, 2023		Leq		L90	
Time		dB(A)		dB(A)		Time		dB(A)		dB(A)	
11:00 AM - 11:05 AM		46.8		41.6		01:40 PM - 01:45 PM		47.1		43.4	
11:05 AM - 11:10 AM		50.7		46.3		01:45 PM - 01:50 PM		46.0		43.6	
11:10 AM - 11:15 AM		50.7		43.2		01:50 PM - 01:55 PM		45.6		41.0	
11:15 AM - 11:20 AM		53.6		47.4		01:55 PM - 02:00 PM		43.4		39.5	
11:20 AM - 11:25 AM		55.9		50.3		02:00 PM - 02:05 PM		46.3		42.1	
11:25 AM - 11:30 AM		46.9		41.7		02:05 PM - 02:10 PM		45.1		41.4	
11:30 AM - 11:35 AM		50.0		46.9		02:10 PM - 02:15 PM		45.9		43.3	
11:35 AM - 11:40 AM		53.7		43.1		02:15 PM - 02:20 PM		49.1		41.8	
11:40 AM - 11:45 AM		47.3		41.9		02:20 PM - 02:25 PM		48.1		42.7	
11:45 AM - 11:50 AM		45.2		42.0		02:25 PM - 02:30 PM		46.1		41.5	
11:50 AM - 11:55 AM		44.8		41.8		02:30 PM - 02:35 PM		57.4		48.2	
11:55 AM - 12:00 PM		46.6		40.8		02:35 PM - 02:40 PM		52.1		43.6	
12:00 PM - 12:05 PM		54.8		40.4		02:40 PM - 02:45 PM		47.3		42.2	
12:05 PM - 12:10 PM		59.6		42.8		02:45 PM - 02:50 PM		61.9		44.7	
12:10 PM - 12:15 PM		42.3		38.4		02:50 PM - 02:55 PM		55.0		49.2	
12:15 PM - 12:20 PM		45.4		39.1		02:55 PM - 03:00 PM		57.8		48.7	
12:20 PM - 12:25 PM		47.2		42.8		03:00 PM - 03:05 PM		50.9		45.3	
12:25 PM - 12:30 PM		44.2		39.5		03:05 PM - 03:10 PM		47.9		45.1	
12:30 PM - 12:35 PM		46.2		41.0		03:10 PM - 03:15 PM		56.7		46.0	
12:35 PM - 12:40 PM		47.9		39.9		03:15 PM - 03:20 PM		60.0		52.4	
12:40 PM - 12:45 PM		44.6		39.0		03:20 PM - 03:25 PM		49.4		45.2	
12:45 PM - 12:50 PM		47.3		40.1		03:25 PM - 03:30 PM		56.8		47.2	
12:50 PM - 12:55 PM		49.4		44.2		03:30 PM - 03:35 PM		48.6		44.4	
12:55 PM - 01:00 PM		50.3		46.6		03:35 PM - 03:40 PM		46.0		41.7	
01:00 PM - 01:05 PM		47.1		41.5		03:40 PM - 03:45 PM		54.2		44.4	
01:05 PM - 01:10 PM		48.3		38.5		03:45 PM - 03:50 PM		49.6		42.6	
01:10 PM - 01:15 PM		42.6		35.8		03:50 PM - 03:55 PM		46.8		43.8	
01:15 PM - 01:20 PM		44.6		39.0		03:55 PM - 04:00 PM		51.3		45.0	
01:20 PM - 01:25 PM		48.7		38.1		04:00 PM - 04:05 PM		47.1		43.0	
01:25 PM - 01:30 PM		41.5		37.3		04:05 PM - 04:10 PM		49.0		41.6	
01:30 PM - 01:35 PM		45.6		39.7		04:10 PM - 04:15 PM		47.5		42.1	
01:35 PM - 01:40 PM		46.0		41.8		04:15 PM - 04:20 PM		47.3		41.6	

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Approved by

Sarayuth Jitranont  
Assistant General Manager

Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853672-1

Page 2 of 3

Sample Number	23122968-10							
Parameter	Noise Level (Leq 5 min)							
Location	วัดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)							
Measurement Date	Nov 22 - Nov 23, 2023							
Measurement by	Thanat Anake							
Sound Level meter	Serial No. 597156							
Nov 22, 2023	Leq dB(A)	L90 dB(A)	Nov 22 - Nov 23, 2023 Time	Leq dB(A)	L90 dB(A)	Nov 23, 2023 Time	Leq dB(A)	L90 dB(A)
07:00 PM - 07:05 PM	51.7	47.5	09:40 PM - 09:45 PM	46.7	43.5	12:20 AM - 12:25 AM	56.3	46.7
07:05 PM - 07:10 PM	52.6	47.7	09:45 PM - 09:50 PM	44.2	42.7	12:25 AM - 12:30 AM	47.5	46.0
07:10 PM - 07:15 PM	54.2	52.7	09:50 PM - 09:55 PM	51.5	49.1	12:30 AM - 12:35 AM	49.0	46.3
07:15 PM - 07:20 PM	53.3	52.8	09:55 PM - 10:00 PM	49.7	49.0	12:35 AM - 12:40 AM	52.2	47.2
07:20 PM - 07:25 PM	50.9	48.0	10:00 PM - 10:05 PM	49.6	49.1	12:40 AM - 12:45 AM	49.6	45.9
07:25 PM - 07:30 PM	51.1	47.2	10:05 PM - 10:10 PM	44.6	42.9	12:45 AM - 12:50 AM	47.3	45.7
07:30 PM - 07:35 PM	51.2	47.9	10:10 PM - 10:15 PM	54.4	51.5	12:50 AM - 12:55 AM	49.7	44.4
07:35 PM - 07:40 PM	51.1	47.6	10:15 PM - 10:20 PM	51.3	43.7	12:55 AM - 01:00 AM	57.5	44.8
07:40 PM - 07:45 PM	58.1	47.8	10:20 PM - 10:25 PM	53.4	43.1	01:00 AM - 01:05 AM	48.6	44.5
07:45 PM - 07:50 PM	60.3	48.3	10:25 PM - 10:30 PM	50.7	43.5	01:05 AM - 01:10 AM	46.5	44.8
07:50 PM - 07:55 PM	55.9	48.3	10:30 PM - 10:35 PM	54.1	52.8	01:10 AM - 01:15 AM	49.4	44.9
07:55 PM - 08:00 PM	51.9	47.3	10:35 PM - 10:40 PM	46.0	41.8	01:15 AM - 01:20 AM	45.7	44.2
08:00 PM - 08:05 PM	56.3	49.2	10:40 PM - 10:45 PM	47.0	41.7	01:20 AM - 01:25 AM	44.8	43.6
08:05 PM - 08:10 PM	58.0	57.6	10:45 PM - 10:50 PM	57.4	48.9	01:25 AM - 01:30 AM	45.3	43.7
08:10 PM - 08:15 PM	57.6	49.0	10:50 PM - 10:55 PM	49.1	43.5	01:30 AM - 01:35 AM	45.8	44.0
08:15 PM - 08:20 PM	55.6	48.6	10:55 PM - 11:00 PM	53.7	50.3	01:35 AM - 01:40 AM	44.6	43.2
08:20 PM - 08:25 PM	50.9	47.1	11:00 PM - 11:05 PM	53.2	47.5	01:40 AM - 01:45 AM	44.3	43.0
08:25 PM - 08:30 PM	53.5	52.2	11:05 PM - 11:10 PM	51.2	50.3	01:45 AM - 01:50 AM	45.9	43.7
08:30 PM - 08:35 PM	50.4	46.5	11:10 PM - 11:15 PM	47.8	46.2	01:50 AM - 01:55 AM	46.5	45.6
08:35 PM - 08:40 PM	48.0	45.2	11:15 PM - 11:20 PM	47.8	46.7	01:55 AM - 02:00 AM	46.4	45.6
08:40 PM - 08:45 PM	56.2	49.7	11:20 PM - 11:25 PM	47.8	46.3	02:00 AM - 02:05 AM	47.1	45.9
08:45 PM - 08:50 PM	47.2	44.8	11:25 PM - 11:30 PM	51.5	46.5	02:05 AM - 02:10 AM	48.3	46.2
08:50 PM - 08:55 PM	46.7	44.4	11:30 PM - 11:35 PM	51.9	47.3	02:10 AM - 02:15 AM	46.9	46.1
08:55 PM - 09:00 PM	59.8	47.8	11:35 PM - 11:40 PM	47.0	45.9	02:15 AM - 02:20 AM	46.6	45.8
09:00 PM - 09:05 PM	50.5	49.8	11:40 PM - 11:45 PM	50.9	46.3	02:20 AM - 02:25 AM	46.6	45.7
09:05 PM - 09:10 PM	48.9	44.1	11:45 PM - 11:50 PM	50.6	47.6	02:25 AM - 02:30 AM	46.2	45.2
09:10 PM - 09:15 PM	48.0	44.4	11:50 PM - 11:55 PM	47.8	46.8	02:30 AM - 02:35 AM	45.5	44.6
09:15 PM - 09:20 PM	49.3	43.5	11:55 PM - 12:00 AM	47.6	46.1	02:35 AM - 02:40 AM	47.1	44.4
09:20 PM - 09:25 PM	53.9	43.5	12:00 AM - 12:05 AM	52.8	49.4	02:40 AM - 02:45 AM	46.5	43.6
09:25 PM - 09:30 PM	53.0	52.4	12:05 AM - 12:10 AM	49.3	47.1	02:45 AM - 02:50 AM	47.2	42.5
09:30 PM - 09:35 PM	54.1	46.5	12:10 AM - 12:15 AM	48.2	47.0	02:50 AM - 02:55 AM	43.5	42.2
09:35 PM - 09:40 PM	44.8	43.5	12:15 AM - 12:20 AM	47.3	46.1	02:55 AM - 03:00 AM	43.9	42.8

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## Analysis / Test Report

**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853672-1

Page 3 of 3

Sample Number	23122968-10	Leq	L90	Nov 23, 2023	Leq	L90	Nov 23, 2023	Leq	L90
Parameter	Noise Level (Leq 5 min)	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
Location	วัดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)								
Measurement Date	Nov 22 - Nov 23, 2023								
Measurement by	Thananant Anake								
Sound Level meter	Serial No. 597156								
03:00 AM - 03:05 AM	43.5	42.2	05:40 AM - 05:45 AM	46.7	45.3	08:20 AM - 08:25 AM	49.3	46.3	46.3
03:05 AM - 03:10 AM	45.4	43.4	05:45 AM - 05:50 AM	48.3	45.9	08:25 AM - 08:30 AM	50.3	47.2	47.2
03:10 AM - 03:15 AM	44.4	43.2	05:50 AM - 05:55 AM	50.9	45.8	08:30 AM - 08:35 AM	51.3	46.1	46.1
03:15 AM - 03:20 AM	45.8	44.3	05:55 AM - 06:00 AM	50.4	46.7	08:35 AM - 08:40 AM	68.5	47.1	47.1
03:20 AM - 03:25 AM	47.6	43.9	06:00 AM - 06:05 AM	51.4	47.5	08:40 AM - 08:45 AM	68.4	47.3	47.3
03:25 AM - 03:30 AM	44.1	42.5	06:05 AM - 06:10 AM	50.7	46.9	08:45 AM - 08:50 AM	54.2	48.2	48.2
03:30 AM - 03:35 AM	43.1	42.0	06:10 AM - 06:15 AM	50.7	46.9	08:50 AM - 08:55 AM	51.9	47.0	47.0
03:35 AM - 03:40 AM	43.2	42.3	06:15 AM - 06:20 AM	53.4	48.1	08:55 AM - 09:00 AM	53.8	47.1	47.1
03:40 AM - 03:45 AM	44.0	42.3	06:20 AM - 06:25 AM	50.1	47.9	09:00 AM - 09:05 AM	51.5	47.4	47.4
03:45 AM - 03:50 AM	42.4	41.7	06:25 AM - 06:30 AM	50.9	47.3	09:05 AM - 09:10 AM	48.4	44.9	44.9
03:50 AM - 03:55 AM	42.6	41.9	06:30 AM - 06:35 AM	51.5	47.1	09:10 AM - 09:15 AM	47.7	44.3	44.3
03:55 AM - 04:00 AM	56.7	43.2	06:35 AM - 06:40 AM	50.5	48.0	09:15 AM - 09:20 AM	49.1	45.3	45.3
04:00 AM - 04:05 AM	43.9	42.7	06:40 AM - 06:45 AM	51.7	48.3	09:20 AM - 09:25 AM	49.4	44.9	44.9
04:05 AM - 04:10 AM	49.9	42.2	06:45 AM - 06:50 AM	54.2	49.9	09:25 AM - 09:30 AM	52.9	44.9	44.9
04:10 AM - 04:15 AM	44.4	43.4	06:50 AM - 06:55 AM	56.6	50.2	09:30 AM - 09:35 AM	53.2	45.9	45.9
04:15 AM - 04:20 AM	47.6	44.0	06:55 AM - 07:00 AM	53.8	49.3	09:35 AM - 09:40 AM	51.3	45.1	45.1
04:20 AM - 04:25 AM	45.5	44.4	07:00 AM - 07:05 AM	52.8	49.7	09:40 AM - 09:45 AM	48.1	45.1	45.1
04:25 AM - 04:30 AM	52.7	45.0	07:05 AM - 07:10 AM	53.6	49.9	09:45 AM - 09:50 AM	50.6	45.8	45.8
04:30 AM - 04:35 AM	47.0	44.4	07:10 AM - 07:15 AM	54.1	49.6	09:50 AM - 09:55 AM	48.6	45.9	45.9
04:35 AM - 04:40 AM	45.9	44.7	07:15 AM - 07:20 AM	52.7	49.4	09:55 AM - 10:00 AM	53.4	46.9	46.9
04:40 AM - 04:45 AM	45.8	44.6	07:20 AM - 07:25 AM	49.9	47.4	10:00 AM - 10:05 AM	47.0	44.4	44.4
04:45 AM - 04:50 AM	47.6	43.8	07:25 AM - 07:30 AM	51.5	48.6	10:05 AM - 10:10 AM	49.4	43.5	43.5
04:50 AM - 04:55 AM	45.7	43.8	07:30 AM - 07:35 AM	49.7	47.1	10:10 AM - 10:15 AM	45.4	42.0	42.0
04:55 AM - 05:00 AM	51.6	43.4	07:35 AM - 07:40 AM	50.7	46.8	10:15 AM - 10:20 AM	46.9	42.8	42.8
05:00 AM - 05:05 AM	55.3	43.5	07:40 AM - 07:45 AM	49.5	47.1	10:20 AM - 10:25 AM	46.3	43.4	43.4
05:05 AM - 05:10 AM	47.3	43.9	07:45 AM - 07:50 AM	50.2	47.3	10:25 AM - 10:30 AM	50.0	44.4	44.4
05:10 AM - 05:15 AM	45.3	43.8	07:50 AM - 07:55 AM	49.7	46.9	10:30 AM - 10:35 AM	52.8	44.9	44.9
05:15 AM - 05:20 AM	48.8	44.9	07:55 AM - 08:00 AM	53.2	48.5	10:35 AM - 10:40 AM	50.8	44.8	44.8
05:20 AM - 05:25 AM	47.7	45.5	08:00 AM - 08:05 AM	50.8	47.6	10:40 AM - 10:45 AM	48.2	45.3	45.3
05:25 AM - 05:30 AM	48.7	45.7	08:05 AM - 08:10 AM	50.7	47.7	10:45 AM - 10:50 AM	56.1	46.5	46.5
05:30 AM - 05:35 AM	51.3	47.6	08:10 AM - 08:15 AM	55.6	48.3	10:50 AM - 10:55 AM	51.4	45.4	45.4
05:35 AM - 05:40 AM	46.5	45.3	08:15 AM - 08:20 AM	50.2	47.6	10:55 AM - 11:00 AM	52.4	44.6	44.6

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Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853673-1

Page 1 of 3

Sample Number	23122968-11	Leq	L90	Nov 23, 2023	Leq	L90	Nov 23, 2023	Leq	L90
Parameter	Noise Level (Leq 5 min)	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
Location	วัดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)								
Measurement Date	Nov 23 - Nov 24, 2023								
Measurement by	Thananant Anake								
Sound Level meter	Serial No. 597156								
11:00 AM - 11:05 AM	49.5	42.9	01:40 PM - 01:45 PM	49.5	44.9	04:20 PM - 04:25 PM	46.5	41.2	41.2
11:05 AM - 11:10 AM	48.5	41.9	01:45 PM - 01:50 PM	50.6	42.5	04:25 PM - 04:30 PM	50.0	43.3	43.3
11:10 AM - 11:15 AM	54.2	48.4	01:50 PM - 01:55 PM	45.2	41.3	04:30 PM - 04:35 PM	51.6	47.1	47.1
11:15 AM - 11:20 AM	51.4	45.0	01:55 PM - 02:00 PM	46.5	42.0	04:35 PM - 04:40 PM	51.5	43.6	43.6
11:20 AM - 11:25 AM	51.1	45.2	02:00 PM - 02:05 PM	47.5	41.9	04:40 PM - 04:45 PM	54.4	43.4	43.4
11:25 AM - 11:30 AM	51.3	43.9	02:05 PM - 02:10 PM	41.5	38.5	04:45 PM - 04:50 PM	52.7	45.1	45.1
11:30 AM - 11:35 AM	49.9	42.0	02:10 PM - 02:15 PM	42.9	38.9	04:50 PM - 04:55 PM	51.0	42.5	42.5
11:35 AM - 11:40 AM	52.9	40.3	02:15 PM - 02:20 PM	41.5	38.1	04:55 PM - 05:00 PM	52.4	43.3	43.3
11:40 AM - 11:45 AM	43.7	39.4	02:20 PM - 02:25 PM	44.0	40.1	05:00 PM - 05:05 PM	50.2	42.0	42.0
11:45 AM - 11:50 AM	44.9	40.5	02:25 PM - 02:30 PM	47.0	41.5	05:05 PM - 05:10 PM	49.6	44.5	44.5
11:50 AM - 11:55 AM	46.5	41.6	02:30 PM - 02:35 PM	48.3	42.5	05:10 PM - 05:15 PM	51.2	43.2	43.2
11:55 AM - 12:00 PM	44.2	41.2	02:35 PM - 02:40 PM	47.4	42.4	05:15 PM - 05:20 PM	54.1	45.2	45.2
12:00 PM - 12:05 PM	50.1	42.6	02:40 PM - 02:45 PM	54.6	43.0	05:20 PM - 05:25 PM	55.7	45.1	45.1
12:05 PM - 12:10 PM	46.1	42.0	02:45 PM - 02:50 PM	54.1	45.3	05:25 PM - 05:30 PM	53.5	46.8	46.8
12:10 PM - 12:15 PM	46.1	41.8	02:50 PM - 02:55 PM	52.2	46.5	05:30 PM - 05:35 PM	53.0	46.8	46.8
12:15 PM - 12:20 PM	62.0	45.9	02:55 PM - 03:00 PM	50.1	43.2	05:35 PM - 05:40 PM	53.0	44.6	44.6
12:20 PM - 12:25 PM	46.6	44.6	03:00 PM - 03:05 PM	48.4	40.8	05:40 PM - 05:45 PM	55.6	45.6	45.6
12:25 PM - 12:30 PM	44.2	40.4	03:05 PM - 03:10 PM	49.4	40.3	05:45 PM - 05:50 PM	52.3	46.7	46.7
12:30 PM - 12:35 PM	46.5	41.8	03:10 PM - 03:15 PM	51.6	44.0	05:50 PM - 05:55 PM	47.1	43.8	43.8
12:35 PM - 12:40 PM	45.6	41.5	03:15 PM - 03:20 PM	46.2	39.6	05:55 PM - 06:00 PM	55.1	46.1	46.1
12:40 PM - 12:45 PM	43.1	39.4	03:20 PM - 03:25 PM	46.1	40.6	06:00 PM - 06:05 PM	50.0	43.8	43.8
12:45 PM - 12:50 PM	48.9	45.6	03:25 PM - 03:30 PM	44.6	40.7	06:05 PM - 06:10 PM	50.1	46.8	46.8
12:50 PM - 12:55 PM	45.2	40.7	03:30 PM - 03:35 PM	52.4	42.2	06:10 PM - 06:15 PM	49.2	47.8	47.8
12:55 PM - 01:00 PM	42.7	39.6	03:35 PM - 03:40 PM	55.4	47.9	06:15 PM - 06:20 PM	60.8	46.6	46.6
01:00 PM - 01:05 PM	46.4	38.2	03:40 PM - 03:45 PM	51.4	48.6	06:20 PM - 06:25 PM	48.4	46.2	46.2
01:05 PM - 01:10 PM	46.3	39.4	03:45 PM - 03:50 PM	50.1	44.7	06:25 PM - 06:30 PM	50.1	47.5	47.5
01:10 PM - 01:15 PM	44.7	38.8	03:50 PM - 03:55 PM	48.3	43.9	06:30 PM - 06:35 PM	50.1	46.8	46.8
01:15 PM - 01:20 PM	44.1	40.8	03:55 PM - 04:00 PM	50.5	46.7	06:35 PM - 06:40 PM	50.3	48.6	48.6
01:20 PM - 01:25 PM	44.8	40.9	04:00 PM - 04:05 PM	47.8	43.9	06:40 PM - 06:45 PM	54.2	49.5	49.5
01:25 PM - 01:30 PM	46.9	41.9	04:05 PM - 04:10 PM	48.4	42.7	06:45 PM - 06:50 PM	56.6	52.3	52.3
01:30 PM - 01:35 PM	47.8	42.7	04:10 PM - 04:15 PM	51.8	44.7	06:50 PM - 06:55 PM	64.0	48.6	48.6
01:35 PM - 01:40 PM	47.1	42.8	04:15 PM - 04:20 PM	49.4	43.8	06:55 PM - 07:00 PM	56.9	48.2	48.2

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Approved by

Sarayuth Jitranont  
Assistant General Manager



Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23122968

Date Received : Nov 29, 2023

Date Reported : Dec 07, 2023

Report Number : 2853673-1

## Analysis / Test Report

Page 2 of 3

Sample Number		23122968-11	
Parameter		Noise Level (Leq 5 min)	
Location		จุดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)	
Measurement Date		Nov 23 - Nov 24, 2023	
Measurement by		Thanat Anake	
Sound Level meter		Serial No. 597156	
Nov 23, 2023	Leq dB(A)	Nov 23 - Nov 24, 2023	L90 dB(A)
07:00 PM - 07:05 PM	54.4	09:40 PM - 09:45 PM	51.9
07:05 PM - 07:10 PM	59.3	09:45 PM - 09:50 PM	51.6
07:10 PM - 07:15 PM	52.6	09:50 PM - 09:55 PM	50.1
07:15 PM - 07:20 PM	53.1	09:55 PM - 10:00 PM	46.8
07:20 PM - 07:25 PM	50.8	10:00 PM - 10:05 PM	47.7
07:25 PM - 07:30 PM	51.9	10:05 PM - 10:10 PM	49.2
07:30 PM - 07:35 PM	50.3	10:10 PM - 10:15 PM	47.1
07:35 PM - 07:40 PM	49.3	10:15 PM - 10:20 PM	50.1
07:40 PM - 07:45 PM	51.9	10:20 PM - 10:25 PM	47.6
07:45 PM - 07:50 PM	53.3	10:25 PM - 10:30 PM	50.9
07:50 PM - 07:55 PM	53.5	10:30 PM - 10:35 PM	47.4
07:55 PM - 08:00 PM	57.2	10:35 PM - 10:40 PM	48.1
08:00 PM - 08:05 PM	52.0	10:40 PM - 10:45 PM	47.7
08:05 PM - 08:10 PM	50.4	10:45 PM - 10:50 PM	46.6
08:10 PM - 08:15 PM	52.5	10:50 PM - 10:55 PM	46.5
08:15 PM - 08:20 PM	56.7	10:55 PM - 11:00 PM	49.7
08:20 PM - 08:25 PM	51.5	11:00 PM - 11:05 PM	47.3
08:25 PM - 08:30 PM	53.3	11:05 PM - 11:10 PM	48.5
08:30 PM - 08:35 PM	49.5	11:10 PM - 11:15 PM	48.4
08:35 PM - 08:40 PM	50.6	11:15 PM - 11:20 PM	47.9
08:40 PM - 08:45 PM	50.5	11:20 PM - 11:25 PM	47.1
08:45 PM - 08:50 PM	48.6	11:25 PM - 11:30 PM	44.8
08:50 PM - 08:55 PM	51.6	11:30 PM - 11:35 PM	45.9
08:55 PM - 09:00 PM	48.3	11:35 PM - 11:40 PM	50.3
09:00 PM - 09:05 PM	50.1	11:40 PM - 11:45 PM	46.9
09:05 PM - 09:10 PM	51.3	11:45 PM - 11:50 PM	46.9
09:10 PM - 09:15 PM	52.6	11:50 PM - 11:55 PM	46.9
09:15 PM - 09:20 PM	48.8	11:55 PM - 12:00 AM	46.1
09:20 PM - 09:25 PM	53.4	12:00 AM - 12:05 AM	47.6
09:25 PM - 09:30 PM	51.0	12:05 AM - 12:10 AM	45.9
09:30 PM - 09:35 PM	47.2	12:10 AM - 12:15 AM	46.5
09:35 PM - 09:40 PM	48.3	12:15 AM - 12:20 AM	47.5

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Approved by

Sarayuth Jitranont  
Assistant General Manager



Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

## Analysis / Test Report

Page 3 of 3

Sample Number		23122968-11	
Parameter		Noise Level (Leq 5 min)	
Location		จุดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)	
Measurement Date		Nov 23 - Nov 24, 2023	
Measurement by		Thanat Anake	
Sound Level meter		Serial No. 597156	
Nov 24, 2023	Leq dB(A)	Nov 24, 2023	L90 dB(A)
03:00 AM - 03:05 AM	44.1	05:40 AM - 05:45 AM	46.1
03:05 AM - 03:10 AM	44.1	05:45 AM - 05:50 AM	47.0
03:10 AM - 03:15 AM	43.8	05:50 AM - 05:55 AM	46.9
03:15 AM - 03:20 AM	44.1	05:55 AM - 06:00 AM	47.9
03:20 AM - 03:25 AM	44.6	06:00 AM - 06:05 AM	51.1
03:25 AM - 03:30 AM	46.1	06:05 AM - 06:10 AM	51.0
03:30 AM - 03:35 AM	49.0	06:10 AM - 06:15 AM	51.2
03:35 AM - 03:40 AM	46.0	06:15 AM - 06:20 AM	52.7
03:40 AM - 03:45 AM	53.0	06:20 AM - 06:25 AM	51.3
03:45 AM - 03:50 AM	45.1	06:25 AM - 06:30 AM	53.2
03:50 AM - 03:55 AM	45.4	06:30 AM - 06:35 AM	53.4
03:55 AM - 04:00 AM	45.9	06:35 AM - 06:40 AM	51.6
04:00 AM - 04:05 AM	47.4	06:40 AM - 06:45 AM	54.6
04:05 AM - 04:10 AM	58.8	06:45 AM - 06:50 AM	52.2
04:10 AM - 04:15 AM	44.8	06:50 AM - 06:55 AM	50.5
04:15 AM - 04:20 AM	44.4	06:55 AM - 07:00 AM	51.7
04:20 AM - 04:25 AM	50.5	07:00 AM - 07:05 AM	49.8
04:25 AM - 04:30 AM	45.1	07:05 AM - 07:10 AM	51.9
04:30 AM - 04:35 AM	48.7	07:10 AM - 07:15 AM	54.0
04:35 AM - 04:40 AM	45.1	07:15 AM - 07:20 AM	51.8
04:40 AM - 04:45 AM	54.6	07:20 AM - 07:25 AM	50.4
04:45 AM - 04:50 AM	45.3	07:25 AM - 07:30 AM	50.2
04:50 AM - 04:55 AM	48.9	07:30 AM - 07:35 AM	50.7
04:55 AM - 05:00 AM	48.1	07:35 AM - 07:40 AM	51.2
05:00 AM - 05:05 AM	46.7	07:40 AM - 07:45 AM	51.5
05:05 AM - 05:10 AM	44.4	07:45 AM - 07:50 AM	53.6
05:10 AM - 05:15 AM	51.5	07:50 AM - 07:55 AM	53.0
05:15 AM - 05:20 AM	53.5	07:55 AM - 08:00 AM	52.2
05:20 AM - 05:25 AM	44.9	08:00 AM - 08:05 AM	51.1
05:25 AM - 05:30 AM	48.0	08:05 AM - 08:10 AM	51.9
05:30 AM - 05:35 AM	45.5	08:10 AM - 08:15 AM	50.8
05:35 AM - 05:40 AM	45.7	08:15 AM - 08:20 AM	52.1

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Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853674-1

Page 1 of 2

**Sample Number** 23122968-12  
**Parameter** Noise Level (Leq 5 min)  
**Location** หมู่ที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)  
**Measurement Date** Nov 24 - Nov 25, 2023  
**Measurement by** Thananatt Anake  
**Sound Level meter** Serial No. 597156

Nov 24, 2023 Time	Leq dB(A)	Nov 24, 2023 Time	Leq dB(A)	Nov 24, 2023 Time	Leq dB(A)	L90 dB(A)
11:00 AM - 11:05 AM	49.3	01:40 PM - 01:45 PM	38.2	04:20 PM - 04:25 PM	49.9	41.4
11:05 AM - 11:10 AM	46.2	01:45 PM - 01:50 PM	45.4	04:25 PM - 04:30 PM	52.5	41.4
11:10 AM - 11:15 AM	45.3	01:50 PM - 01:55 PM	45.9	04:30 PM - 04:35 PM	53.0	44.0
11:15 AM - 11:20 AM	47.9	01:55 PM - 02:00 PM	52.8	04:35 PM - 04:40 PM	50.4	43.5
11:20 AM - 11:25 AM	49.5	02:00 PM - 02:05 PM	48.7	04:40 PM - 04:45 PM	47.7	41.7
11:25 AM - 11:30 AM	46.9	02:05 PM - 02:10 PM	44.7	04:45 PM - 04:50 PM	48.4	44.0
11:30 AM - 11:35 AM	46.3	02:10 PM - 02:15 PM	46.1	04:50 PM - 04:55 PM	46.9	40.2
11:35 AM - 11:40 AM	47.2	02:15 PM - 02:20 PM	50.8	04:55 PM - 05:00 PM	52.3	44.3
11:40 AM - 11:45 AM	46.5	02:20 PM - 02:25 PM	47.1	05:00 PM - 05:05 PM	50.3	44.2
11:45 AM - 11:50 AM	47.4	02:25 PM - 02:30 PM	48.4	05:05 PM - 05:10 PM	52.3	45.1
11:50 AM - 11:55 AM	44.7	02:30 PM - 02:35 PM	43.2	05:10 PM - 05:15 PM	50.9	43.3
11:55 AM - 12:00 PM	46.9	02:35 PM - 02:40 PM	44.4	05:15 PM - 05:20 PM	48.7	43.9
12:00 PM - 12:05 PM	54.4	02:40 PM - 02:45 PM	43.5	05:20 PM - 05:25 PM	53.7	45.1
12:05 PM - 12:10 PM	60.8	02:45 PM - 02:50 PM	48.2	05:25 PM - 05:30 PM	43.2	42.2
12:10 PM - 12:15 PM	52.1	02:50 PM - 02:55 PM	47.1	05:30 PM - 05:35 PM	53.8	42.4
12:15 PM - 12:20 PM	57.2	02:55 PM - 03:00 PM	47.9	05:35 PM - 05:40 PM	51.1	43.0
12:20 PM - 12:25 PM	46.1	03:00 PM - 03:05 PM	49.5	05:40 PM - 05:45 PM	62.4	49.1
12:25 PM - 12:30 PM	45.5	03:05 PM - 03:10 PM	54.7	05:45 PM - 05:50 PM	56.2	51.8
12:30 PM - 12:35 PM	46.5	03:10 PM - 03:15 PM	47.0	05:50 PM - 05:55 PM	56.0	50.6
12:35 PM - 12:40 PM	42.2	03:15 PM - 03:20 PM	59.3	05:55 PM - 06:00 PM	50.5	48.0
12:40 PM - 12:45 PM	48.9	03:20 PM - 03:25 PM	43.5	06:00 PM - 06:05 PM	50.5	48.1
12:45 PM - 12:50 PM	57.2	03:25 PM - 03:30 PM	48.0	06:05 PM - 06:10 PM	55.7	51.6
12:50 PM - 12:55 PM	49.0	03:30 PM - 03:35 PM	48.8	06:10 PM - 06:15 PM	50.8	45.9
12:55 PM - 01:00 PM	50.8	03:35 PM - 03:40 PM	54.8	06:15 PM - 06:20 PM	52.9	47.8
01:00 PM - 01:05 PM	47.0	03:40 PM - 03:45 PM	44.8	06:20 PM - 06:25 PM	63.5	52.5
01:05 PM - 01:10 PM	52.6	03:45 PM - 03:50 PM	44.4	06:25 PM - 06:30 PM	49.2	45.6
01:10 PM - 01:15 PM	49.3	03:50 PM - 03:55 PM	49.3	06:30 PM - 06:35 PM	50.8	47.3
01:15 PM - 01:20 PM	49.0	03:55 PM - 04:00 PM	58.5	06:35 PM - 06:40 PM	50.4	48.4
01:20 PM - 01:25 PM	45.5	04:00 PM - 04:05 PM	47.9	06:40 PM - 06:45 PM	52.8	49.5
01:25 PM - 01:30 PM	45.8	04:05 PM - 04:10 PM	53.4	06:45 PM - 06:50 PM	55.4	50.4
01:30 PM - 01:35 PM	43.2	04:10 PM - 04:15 PM	48.0	06:50 PM - 06:55 PM	55.8	50.1
01:35 PM - 01:40 PM	43.3	04:15 PM - 04:20 PM	46.0	06:55 PM - 07:00 PM	51.3	48.9

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Approved by

Sarayuth Jitranont  
Assistant General Manager

Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853674-1

Page 2 of 3

**Sample Number** 23122968-12  
**Parameter** Noise Level (Leq 5 min)  
**Location** หมู่ที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)  
**Measurement Date** Nov 24 - Nov 25, 2023  
**Measurement by** Thananatt Anake  
**Sound Level meter** Serial No. 597156

Nov 24, 2023 Time	Leq dB(A)	Nov 24, 2023 Time	Leq dB(A)	Nov 25, 2023 Time	Leq dB(A)	L90 dB(A)
07:00 PM - 07:05 PM	52.1	09:40 PM - 09:45 PM	49.6	12:20 AM - 12:25 AM	45.0	43.2
07:05 PM - 07:10 PM	52.6	09:45 PM - 09:50 PM	54.5	12:25 AM - 12:30 AM	46.9	43.9
07:10 PM - 07:15 PM	52.3	09:50 PM - 09:55 PM	48.4	12:30 AM - 12:35 AM	45.7	43.0
07:15 PM - 07:20 PM	53.2	09:55 PM - 10:00 PM	50.1	12:35 AM - 12:40 AM	44.1	43.0
07:20 PM - 07:25 PM	53.2	10:00 PM - 10:05 PM	51.2	12:40 AM - 12:45 AM	45.0	43.1
07:25 PM - 07:30 PM	52.9	10:05 PM - 10:10 PM	48.0	12:45 AM - 12:50 AM	46.0	42.7
07:30 PM - 07:35 PM	52.3	10:10 PM - 10:15 PM	48.2	12:50 AM - 12:55 AM	43.0	42.2
07:35 PM - 07:40 PM	54.8	10:15 PM - 10:20 PM	51.2	12:55 AM - 01:00 AM	43.2	42.2
07:40 PM - 07:45 PM	53.8	10:20 PM - 10:25 PM	57.1	01:00 AM - 01:05 AM	53.8	42.4
07:45 PM - 07:50 PM	52.3	10:25 PM - 10:30 PM	55.6	01:05 AM - 01:10 AM	51.1	43.0
07:50 PM - 07:55 PM	52.7	10:30 PM - 10:35 PM	48.1	01:10 AM - 01:15 AM	46.4	44.3
07:55 PM - 08:00 PM	49.5	10:35 PM - 10:40 PM	50.5	01:15 AM - 01:20 AM	46.5	43.7
08:00 PM - 08:05 PM	52.0	10:40 PM - 10:45 PM	48.4	01:20 AM - 01:25 AM	56.6	42.3
08:05 PM - 08:10 PM	50.6	10:45 PM - 10:50 PM	50.9	01:25 AM - 01:30 AM	47.9	41.9
08:10 PM - 08:15 PM	49.9	10:50 PM - 10:55 PM	46.7	01:30 AM - 01:35 AM	43.8	42.5
08:15 PM - 08:20 PM	51.1	10:55 PM - 11:00 PM	50.5	01:35 AM - 01:40 AM	48.7	43.8
08:20 PM - 08:25 PM	51.7	11:00 PM - 11:05 PM	48.5	01:40 AM - 01:45 AM	44.0	42.8
08:25 PM - 08:30 PM	51.9	11:05 PM - 11:10 PM	48.3	01:45 AM - 01:50 AM	46.6	42.8
08:30 PM - 08:35 PM	51.8	11:10 PM - 11:15 PM	53.0	01:50 AM - 01:55 AM	44.1	42.7
08:35 PM - 08:40 PM	54.2	11:15 PM - 11:20 PM	53.0	01:55 AM - 02:00 AM	45.0	43.1
08:40 PM - 08:45 PM	49.2	11:20 PM - 11:25 PM	56.7	02:00 AM - 02:05 AM	45.1	43.5
08:45 PM - 08:50 PM	50.5	11:25 PM - 11:30 PM	51.4	02:05 AM - 02:10 AM	44.6	43.2
08:50 PM - 08:55 PM	49.8	11:30 PM - 11:35 PM	50.9	02:10 AM - 02:15 AM	50.6	43.1
08:55 PM - 09:00 PM	52.9	11:35 PM - 11:40 PM	49.1	02:15 AM - 02:20 AM	44.0	42.3
09:00 PM - 09:05 PM	52.6	11:40 PM - 11:45 PM	47.4	02:20 AM - 02:25 AM	43.6	41.6
09:05 PM - 09:10 PM	49.3	11:45 PM - 11:50 PM	46.7	02:25 AM - 02:30 AM	48.0	42.6
09:10 PM - 09:15 PM	50.1	11:50 PM - 11:55 PM	46.0	02:30 AM - 02:35 AM	44.1	42.4
09:15 PM - 09:20 PM	49.5	11:55 PM - 12:00 AM	47.3	02:35 AM - 02:40 AM	43.7	42.0
09:20 PM - 09:25 PM	50.7	12:00 AM - 12:05 AM	48.4	02:40 AM - 02:45 AM	43.4	41.9
09:25 PM - 09:30 PM	50.7	12:05 AM - 12:10 AM	45.0	02:45 AM - 02:50 AM	44.7	42.4
09:30 PM - 09:35 PM	50.0	12:10 AM - 12:15 AM	46.5	02:50 AM - 02:55 AM	43.9	42.3
09:35 PM - 09:40 PM	51.0	12:15 AM - 12:20 AM	44.7	02:55 AM - 03:00 AM	43.1	41.7

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**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853674-1

Page 3 of 3

**Sample Number** : 23122968-12  
**Parameter** : Noise Level (Leq 5 min)  
**Location** : วัดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)  
**Measurement Date** : Nov 24 - Nov 25, 2023  
**Measurement by** : Thananart Anake  
**Sound Level meter** : Serial No. 597156

Nov 25, 2023 Time	Leq dB(A)	L90 dB(A)	Nov 25, 2023 Time	Leq dB(A)	L90 dB(A)
03:00 AM - 03:05 AM	44.2	43.0	05:40 AM - 05:45 AM	50.3	45.2
03:05 AM - 03:10 AM	44.0	42.9	05:45 AM - 05:50 AM	48.2	45.8
03:10 AM - 03:15 AM	44.4	43.1	05:50 AM - 05:55 AM	47.3	45.4
03:15 AM - 03:20 AM	46.9	43.8	05:55 AM - 06:00 AM	48.4	45.5
03:20 AM - 03:25 AM	44.6	43.1	06:00 AM - 06:05 AM	48.7	45.1
03:25 AM - 03:30 AM	45.1	43.6	06:05 AM - 06:10 AM	51.4	46.1
03:30 AM - 03:35 AM	44.8	43.4	06:10 AM - 06:15 AM	49.9	45.8
03:35 AM - 03:40 AM	44.8	43.2	06:15 AM - 06:20 AM	49.5	45.8
03:40 AM - 03:45 AM	44.6	43.0	06:20 AM - 06:25 AM	50.9	46.8
03:45 AM - 03:50 AM	44.5	43.3	06:25 AM - 06:30 AM	52.0	46.1
03:50 AM - 03:55 AM	45.9	43.7	06:30 AM - 06:35 AM	49.9	46.6
03:55 AM - 04:00 AM	46.8	43.5	06:35 AM - 06:40 AM	51.8	47.1
04:00 AM - 04:05 AM	45.2	43.9	06:40 AM - 06:45 AM	52.7	46.7
04:05 AM - 04:10 AM	49.8	43.8	06:45 AM - 06:50 AM	53.3	48.4
04:10 AM - 04:15 AM	45.1	43.6	06:50 AM - 06:55 AM	53.6	49.0
04:15 AM - 04:20 AM	45.1	43.9	06:55 AM - 07:00 AM	51.3	47.9
04:20 AM - 04:25 AM	52.8	44.1	07:00 AM - 07:05 AM	50.1	47.0
04:25 AM - 04:30 AM	52.6	46.2	07:05 AM - 07:10 AM	53.5	49.0
04:30 AM - 04:35 AM	46.5	44.7	07:10 AM - 07:15 AM	54.2	51.6
04:35 AM - 04:40 AM	46.4	43.9	07:15 AM - 07:20 AM	54.3	50.4
04:40 AM - 04:45 AM	49.6	44.7	07:20 AM - 07:25 AM	55.4	53.3
04:45 AM - 04:50 AM	49.4	45.9	07:25 AM - 07:30 AM	56.5	52.2
04:50 AM - 04:55 AM	45.5	43.6	07:30 AM - 07:35 AM	51.9	49.0
04:55 AM - 05:00 AM	50.1	44.0	07:35 AM - 07:40 AM	55.7	51.6
05:00 AM - 05:05 AM	45.4	43.5	07:40 AM - 07:45 AM	54.0	51.1
05:05 AM - 05:10 AM	46.0	43.9	07:45 AM - 07:50 AM	54.6	50.6
05:10 AM - 05:15 AM	47.7	44.5	07:50 AM - 07:55 AM	54.0	49.4
05:15 AM - 05:20 AM	46.3	44.9	07:55 AM - 08:00 AM	51.0	48.0
05:20 AM - 05:25 AM	45.9	44.5	08:00 AM - 08:05 AM	52.1	47.7
05:25 AM - 05:30 AM	45.0	43.7	08:05 AM - 08:10 AM	51.5	47.4
05:30 AM - 05:35 AM	45.7	44.0	08:10 AM - 08:15 AM	56.6	70.0
05:35 AM - 05:40 AM	50.0	45.5	08:15 AM - 08:20 AM	47.5	44.4

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Approved by

Sariyuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853675-1

Page 1 of 3

**Sample Number** : 23122968-13  
**Parameter** : Noise Level (Leq 5 min)  
**Location** : วัดที่ 1 ถนนพหลโยธิน (GPS 47P 0670718, 1575775)  
**Measurement Date** : Nov 25 - Nov 26, 2023  
**Measurement by** : Thananart Anake  
**Sound Level meter** : Serial No. 597156

Nov 25, 2023 Time	Leq dB(A)	L90 dB(A)	Nov 25, 2023 Time	Leq dB(A)	L90 dB(A)
11:00 AM - 11:05 AM	68.9	48.2	01:40 PM - 01:45 PM	50.6	45.1
11:05 AM - 11:10 AM	52.8	46.5	01:45 PM - 01:50 PM	49.0	45.4
11:10 AM - 11:15 AM	49.6	45.5	01:50 PM - 01:55 PM	49.4	46.1
11:15 AM - 11:20 AM	50.4	45.6	01:55 PM - 02:00 PM	49.5	44.6
11:20 AM - 11:25 AM	50.7	44.8	02:00 PM - 02:05 PM	49.6	43.7
11:25 AM - 11:30 AM	52.3	45.5	02:05 PM - 02:10 PM	51.4	45.6
11:30 AM - 11:35 AM	52.3	47.1	02:10 PM - 02:15 PM	48.5	43.3
11:35 AM - 11:40 AM	53.4	47.1	02:15 PM - 02:20 PM	52.9	44.7
11:40 AM - 11:45 AM	51.5	48.8	02:20 PM - 02:25 PM	48.0	44.2
11:45 AM - 11:50 AM	51.4	47.1	02:25 PM - 02:30 PM	48.9	45.5
11:50 AM - 11:55 AM	48.8	44.9	02:30 PM - 02:35 PM	48.6	44.6
11:55 AM - 12:00 PM	51.7	48.5	02:35 PM - 02:40 PM	47.8	44.5
12:00 PM - 12:05 PM	50.3	47.6	02:40 PM - 02:45 PM	47.7	43.6
12:05 PM - 12:10 PM	49.7	46.0	02:45 PM - 02:50 PM	47.1	42.7
12:10 PM - 12:15 PM	49.5	46.9	02:50 PM - 02:55 PM	50.4	44.2
12:15 PM - 12:20 PM	55.0	50.0	02:55 PM - 03:00 PM	55.3	48.0
12:20 PM - 12:25 PM	47.6	44.2	03:00 PM - 03:05 PM	49.9	44.2
12:25 PM - 12:30 PM	47.3	43.9	03:05 PM - 03:10 PM	47.7	44.2
12:30 PM - 12:35 PM	50.4	46.7	03:10 PM - 03:15 PM	47.8	43.6
12:35 PM - 12:40 PM	49.5	44.8	03:15 PM - 03:20 PM	48.7	44.2
12:40 PM - 12:45 PM	50.7	44.3	03:20 PM - 03:25 PM	49.6	43.7
12:45 PM - 12:50 PM	50.7	45.9	03:25 PM - 03:30 PM	49.0	43.5
12:50 PM - 12:55 PM	52.5	45.2	03:30 PM - 03:35 PM	49.6	45.0
12:55 PM - 01:00 PM	50.4	44.8	03:35 PM - 03:40 PM	48.6	44.5
01:00 PM - 01:05 PM	50.0	46.0	03:40 PM - 03:45 PM	56.7	46.1
01:05 PM - 01:10 PM	51.5	43.9	03:45 PM - 03:50 PM	50.1	44.3
01:10 PM - 01:15 PM	47.3	43.1	03:50 PM - 03:55 PM	59.4	47.1
01:15 PM - 01:20 PM	48.3	44.1	03:55 PM - 04:00 PM	49.8	44.0
01:20 PM - 01:25 PM	49.0	44.7	04:00 PM - 04:05 PM	50.3	44.8
01:25 PM - 01:30 PM	51.5	43.7	04:05 PM - 04:10 PM	48.5	45.0
01:30 PM - 01:35 PM	53.4	44.4	04:10 PM - 04:15 PM	48.2	44.6
01:35 PM - 01:40 PM	52.3	45.5	04:15 PM - 04:20 PM	51.2	46.0

The above results are valid only for the specified 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 this Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sariyuth Jitranont  
Assistant General Manager





**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853676-1

Page 1 of 2

Sample Number		23122968-14		Noise Level (Leq 5 min)		พิกัด 1 กรุงเทพมหานคร (GPS 47P 0670718, 1575775)		Nov 26 - Nov 27, 2023		Thanaat Anake		Serial No. 597156	
Parameter		Location		Measurement Date		Measurement by		Sound Level meter					
Nov 26, 2023	Leq dB(A)	Nov 26, 2023	Leq dB(A)	Nov 26, 2023	Time	Nov 26, 2023	Time	Nov 26, 2023	Time	Nov 26, 2023	Time	Nov 26, 2023	Time
11:00 AM - 11:05 AM	49.2	46.3	41.6	45.2	01:40 PM - 01:45 PM	46.1	41.6	04:20 PM - 04:25 PM	47.4	44.8	04:25 PM - 04:30 PM	47.4	44.8
11:05 AM - 11:10 AM	54.1	45.9	52.6	48.4	01:45 PM - 01:50 PM	52.6	45.2	04:30 PM - 04:35 PM	51.9	45.3	04:35 PM - 04:40 PM	51.9	45.3
11:10 AM - 11:15 AM	50.7	46.6	43.2	44.4	01:50 PM - 01:55 PM	48.4	43.2	04:40 PM - 04:45 PM	54.4	44.4	04:45 PM - 04:50 PM	54.4	44.4
11:15 AM - 11:20 AM	53.4	46.3	41.0	45.5	01:55 PM - 02:00 PM	50.2	41.0	04:50 PM - 04:55 PM	50.3	45.5	04:55 PM - 05:00 PM	50.3	45.5
11:20 AM - 11:25 AM	49.2	46.5	40.7	46.6	02:00 PM - 02:05 PM	49.2	40.7	05:00 PM - 05:05 PM	51.6	46.6	05:05 PM - 05:10 PM	51.6	46.6
11:25 AM - 11:30 AM	51.1	46.2	42.9	46.8	02:05 PM - 02:10 PM	48.3	42.9	05:10 PM - 05:15 PM	53.1	46.8	05:15 PM - 05:20 PM	53.1	46.8
11:30 AM - 11:35 AM	50.0	46.4	42.8	52.3	02:10 PM - 02:15 PM	50.0	42.8	05:20 PM - 05:25 PM	59.7	52.3	05:25 PM - 05:30 PM	59.7	52.3
11:35 AM - 11:40 AM	50.3	46.5	41.8	48.3	02:15 PM - 02:20 PM	46.6	41.8	05:30 PM - 05:35 PM	52.0	48.3	05:35 PM - 05:40 PM	52.0	48.3
11:40 AM - 11:45 AM	53.8	48.9	41.8	44.6	02:20 PM - 02:25 PM	48.4	41.8	05:40 PM - 05:45 PM	50.4	44.6	05:45 PM - 05:50 PM	50.4	44.6
11:45 AM - 11:50 AM	60.5	57.4	40.5	49.0	02:25 PM - 02:30 PM	49.2	40.5	05:50 PM - 05:55 PM	49.0	44.9	05:55 PM - 06:00 PM	49.0	44.9
11:50 AM - 11:55 AM	55.3	51.7	48.5	45.9	02:30 PM - 02:35 PM	48.5	48.5	06:00 PM - 06:05 PM	49.9	45.9	06:05 PM - 06:10 PM	49.9	45.9
11:55 AM - 12:00 PM	52.0	49.2	43.1	50.0	02:35 PM - 02:40 PM	46.9	43.1	06:10 PM - 06:15 PM	55.0	50.0	06:15 PM - 06:20 PM	55.0	50.0
12:00 PM - 12:05 PM	49.4	46.8	43.0	50.5	02:40 PM - 02:45 PM	46.8	43.0	06:20 PM - 06:25 PM	54.0	50.5	06:25 PM - 06:30 PM	54.0	50.5
12:05 PM - 12:10 PM	49.1	45.0	42.7	47.7	02:45 PM - 02:50 PM	48.3	42.7	06:30 PM - 06:35 PM	57.0	47.7	06:35 PM - 06:40 PM	57.0	47.7
12:10 PM - 12:15 PM	49.9	45.6	47.2	46.4	02:50 PM - 02:55 PM	51.4	47.2	06:40 PM - 06:45 PM	49.0	46.4	06:45 PM - 06:50 PM	49.0	46.4
12:15 PM - 12:20 PM	51.2	47.4	42.1	45.3	02:55 PM - 03:00 PM	49.4	42.1	06:50 PM - 06:55 PM	50.6	45.3	06:55 PM - 07:00 PM	50.6	45.3
12:20 PM - 12:25 PM	56.0	48.3	43.0	46.1	03:00 PM - 03:05 PM	50.2	43.0	07:00 PM - 07:05 PM	50.9	46.1	07:05 PM - 07:10 PM	50.9	46.1
12:25 PM - 12:30 PM	49.8	46.0	44.3	44.0	03:05 PM - 03:10 PM	52.9	44.3	07:10 PM - 07:15 PM	48.7	44.0	07:15 PM - 07:20 PM	48.7	44.0
12:30 PM - 12:35 PM	50.4	45.9	47.3	45.0	03:10 PM - 03:15 PM	51.0	47.3	07:20 PM - 07:25 PM	48.0	45.0	07:25 PM - 07:30 PM	48.0	45.0
12:35 PM - 12:40 PM	55.8	50.7	48.6	43.1	03:15 PM - 03:20 PM	53.4	48.6	07:30 PM - 07:35 PM	46.9	43.1	07:35 PM - 07:40 PM	46.9	43.1
12:40 PM - 12:45 PM	48.4	46.1	42.6	43.4	03:20 PM - 03:25 PM	49.2	42.6	07:40 PM - 07:45 PM	47.1	43.4	07:45 PM - 07:50 PM	47.1	43.4
12:45 PM - 12:50 PM	54.4	47.5	45.0	43.9	03:25 PM - 03:30 PM	45.0	42.1	07:50 PM - 07:55 PM	58.3	43.9	07:55 PM - 08:00 PM	58.3	43.9
12:50 PM - 12:55 PM	53.1	47.3	44.9	44.8	03:30 PM - 03:35 PM	50.2	44.9	08:00 PM - 08:05 PM	48.9	44.8	08:05 PM - 08:10 PM	48.9	44.8
12:55 PM - 01:00 PM	50.6	43.8	45.5	47.9	03:35 PM - 03:40 PM	45.5	42.0	08:10 PM - 08:15 PM	52.2	47.9	08:15 PM - 08:20 PM	52.2	47.9
01:00 PM - 01:05 PM	49.1	44.5	42.7	45.7	03:40 PM - 03:45 PM	47.2	42.7	08:20 PM - 08:25 PM	49.2	45.7	08:25 PM - 08:30 PM	49.2	45.7
01:05 PM - 01:10 PM	50.0	43.7	42.8	47.2	03:45 PM - 03:50 PM	48.0	42.8	08:30 PM - 08:35 PM	51.6	47.2	08:35 PM - 08:40 PM	51.6	47.2
01:10 PM - 01:15 PM	51.9	46.1	42.7	45.8	03:50 PM - 03:55 PM	48.4	42.7	08:40 PM - 08:45 PM	47.5	45.8	08:45 PM - 08:50 PM	47.5	45.8
01:15 PM - 01:20 PM	49.3	43.9	46.1	46.9	03:55 PM - 04:00 PM	50.5	46.1	08:50 PM - 08:55 PM	51.5	46.9	08:55 PM - 09:00 PM	51.5	46.9
01:20 PM - 01:25 PM	48.4	43.2	47.2	49.1	04:00 PM - 04:05 PM	51.6	47.2	09:00 PM - 09:05 PM	51.1	49.1	09:05 PM - 09:10 PM	51.1	49.1
01:25 PM - 01:30 PM	48.9	42.9	44.7	46.6	04:05 PM - 04:10 PM	50.0	44.7	09:10 PM - 09:15 PM	48.2	46.6	09:15 PM - 09:20 PM	48.2	46.6
01:30 PM - 01:35 PM	46.6	43.0	45.2	46.1	04:10 PM - 04:15 PM	48.4	45.2	09:20 PM - 09:25 PM	51.5	46.1	09:25 PM - 09:30 PM	51.5	46.1
01:35 PM - 01:40 PM	46.8	42.2	41.8	46.6	04:15 PM - 04:20 PM	46.4	41.8	09:30 PM - 09:35 PM	52.8	46.6	09:35 PM - 09:40 PM	52.8	46.6

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Approved by

Saranyuth Jitranont  
Assistant General Manager

Approved by

Saranyuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210701597  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853676-1

Page 2 of 3

Sample Number		23122968-14		Noise Level (Leq 5 min)		พิกัด 1 กรุงเทพมหานคร (GPS 47P 0670718, 1575775)		Nov 26 - Nov 27, 2023		Thanaat Anake		Serial No. 597156	
Parameter		Location		Measurement Date		Measurement by		Sound Level meter					
Nov 26, 2023	Leq dB(A)	Nov 26, 2023	Leq dB(A)	Nov 26, 2023	Time	Nov 26, 2023	Time	Nov 26, 2023	Time	Nov 26, 2023	Time	Nov 26, 2023	Time
07:00 PM - 07:05 PM	52.4	46.3	47.2	46.1	09:40 PM - 09:45 PM	47.2	46.1	12:20 AM - 12:25 AM	46.8	44.0	12:25 AM - 12:30 AM	46.8	44.0
07:05 PM - 07:10 PM	49.6	46.9	50.1	46.0	09:45 PM - 09:50 PM	48.2	46.0	12:30 AM - 12:35 AM	47.9	46.0	12:35 AM - 12:40 AM	47.9	46.0
07:10 PM - 07:15 PM	49.7	46.8	48.2	46.5	09:50 PM - 09:55 PM	46.6	46.5	12:40 AM - 12:45 AM	49.7	45.3	12:45 AM - 12:50 AM	49.7	45.3
07:15 PM - 07:20 PM	49.0	46.8	45.8	45.0	09:55 PM - 10:00 PM	45.8	45.0	12:50 AM - 12:55 AM	47.9	45.3	12:55 AM - 01:00 AM	47.9	45.3
07:20 PM - 07:25 PM	62.4	49.1	45.8	45.1	10:00 PM - 10:05 PM	46.5	45.1	01:00 AM - 01:05 AM	49.8	44.5	01:05 AM - 01:10 AM	49.8	44.5
07:25 PM - 07:30 PM	56.2	51.8	46.5	45.5	10:05 PM - 10:10 PM	46.5	45.5	01:10 AM - 01:15 AM	46.0	44.2	01:15 AM - 01:20 AM	46.0	44.2
07:30 PM - 07:35 PM	50.8	48.6	51.8	48.7	10:10 PM - 10:15 PM	46.3	48.7	01:20 AM - 01:25 AM	45.9	43.2	01:25 AM - 01:30 AM	45.9	43.2
07:35 PM - 07:40 PM	48.2	46.7	46.3	44.7	10:15 PM - 10:20 PM	46.3	44.7	01:30 AM - 01:35 AM	45.4	44.2	01:35 AM - 01:40 AM	45.4	44.2
07:40 PM - 07:45 PM	54.7	45.6	42.8	40.6	10:20 PM - 10:25 PM	52.6	40.6	01:40 AM - 01:45 AM	47.3	44.6	01:45 AM - 01:50 AM	47.3	44.6
07:45 PM - 07:50 PM	54.1	45.6	42.4	40.2	10:25 PM - 10:30 PM	49.7	40.2	01:50 AM - 01:55 AM	45.0	44.8	01:55 AM - 02:00 AM	45.0	44.8
07:50 PM - 07:55 PM	55.8	46.5	41.7	40.5	10:30 PM - 10:35 PM	48.1	40.5	02:00 AM - 02:05 AM	46.1	44.4	02:05 AM - 02:10 AM	46.1	44.4
07:55 PM - 08:00 PM	48.2	46.4	42.4	40.2	10:35 PM - 10:40 PM	44.7	40.2	02:10 AM - 02:15 AM	45.4	44.2	02:15 AM - 02:20 AM	45.4	44.2
08:00 PM - 08:05 PM	48.1	46.8	42.6	40.9	10:40 PM - 10:45 PM	42.8	40.9	02:20 AM - 02:25 AM	45.2	44.2	02:25 AM - 02:30 AM	45.2	44.2
08:05 PM - 08:10 PM	47.2	46.2	42.4	40.2	10:45 PM - 10:50 PM	42.4	40.2	02:30 AM - 02:35 AM	46.1	42.3	02:35 AM - 02:40 AM	46.1	42.3
08:10 PM - 08:15 PM	53.5	46.4	41.7	40.5	10:50 PM - 10:55 PM	41.7	40.5	02:40 AM - 02:45 AM	42.6	44.6	02:45 AM - 02:50 AM	42.6	44.6
08:15 PM - 08:20 PM	53.4	47.2	40.9	44.2	10:55 PM - 11:00 PM	42.3	44.2	02:50 AM - 02:55 AM	45.2	44.4	02:55 AM - 03:00 AM	45.2	44.4
08:20 PM - 08:25 PM	54.8	47.4	42.6	40.9	11:00 PM - 11:05 PM	42.6	40.9	03:00 AM - 03:05 AM	44.4	43.1	03:05 AM - 03:10 AM	44.4	43.1
08:25 PM - 08:30 PM	54.2	47.8	41.3	40.5	11:05 PM - 11:10 PM	42.6	40.5	03:10 AM - 03:15 AM	45.4	44.8	03:15 AM - 03:20 AM	45.4	44.8
08:30 PM - 08:35 PM	53.6	46.7	41.6	40.5	11:10 PM - 11:15 PM	41.6	40.5	03:20 AM - 03:25 AM	45.2	44.4	03:25 AM - 03:30 AM	45.2	44.4
08:35 PM - 08:40 PM	48.4	46.7	41.4	40.3	11:15 PM - 11:20 PM	41.4	40.3	03:30 AM - 03:35 AM	46.3	44.5	03:35 AM - 03:40 AM	46.3	44.5
08:40 PM - 08:45 PM	47.9	46.1	42.6	40.4	11:20 PM - 11:25 PM	42.6	40.4	03:40 AM - 03:45 AM	45.4	44.5	03:45 AM - 03:50 AM	45.4	44.5
08:45 PM - 08:50 PM	50.9	47.2	42.6	40.9	11:25 PM - 11:30 PM	42.6	40.9	03:50 AM - 03:55 AM	44.2	44.3	03:55 AM - 04:00 PM	44.2	44.3
08:50 PM - 08:55 PM	46.7	47.0	44.2	41.3	11:30 PM - 11:35 PM	44.2	41.3	04:00 AM - 04:05 AM	45.4	44.5	04:05 AM - 04:10 AM	45.4	44.5
08:55 PM - 09:00 PM	48.6	45.5	43.3	41.3	11:35 PM - 11:40 PM	43.3	41.3	04:10 AM - 04:15 PM	45.2	44.4	04:15 AM - 04:20 AM	45.2	44.4
09:00 PM - 09:05 PM	52.0	45.5	44.5	40.2	11:40 PM - 11:45 PM	44.5	40.2	04:20 AM - 04:25 AM	47.5	44.4	04:25 AM - 04:30 AM	47.5	44.4
09:05 PM - 09:10 PM	50.1	47.3	42.4	40.6	11:45 PM - 11:50 PM	42.4	40.6	04:30 AM - 04:35 AM	46.1	42.3	04:35 AM - 04:40 AM	46.1	42.3
09:10 PM - 09:15 PM	48.3	46.4	52.5	42.9	11:50 PM - 11:55 PM	52.5	42.9	04:40 AM - 04:45 AM	43.6	42.4	04:45 AM - 04:50 AM	43.6	42.4
09:15 PM - 09:20 PM	55.8	46.4	50.3	43.3	11:55 PM - 12:00 AM	50.3	43.3	04:50 AM - 04:55 AM	44.2	43.3	04:55 AM - 05:00 AM	44.2	43.3



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23122968**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853676-1

Page 3 of 3

Sample Number	23122968-14	Leq	L90	Nov 27, 2023	Leq	L90	Nov 27, 2023	Leq	L90
Parameter	Noise Level (Leq 5 min)	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
Location	วัดที่ 1 บ้านห้วยนา								
Measurement Date	Nov 26 - Nov 27, 2023								
Measurement by	Thanarat Anake								
Sound Level meter	Serial No. 597156								
03:00 AM - 03:05 AM	44.5	43.5	56.2	05:40 AM - 05:45 AM	55.2	51.2	08:20 AM - 08:25 AM	50.4	48.0
03:05 AM - 03:10 AM	45.5	43.4	55.3	05:45 AM - 05:50 AM	55.3	50.9	08:25 AM - 08:30 AM	49.8	46.8
03:10 AM - 03:15 AM	52.4	46.4	50.8	05:50 AM - 05:55 AM	50.8	47.7	08:30 AM - 08:35 AM	50.9	47.3
03:15 AM - 03:20 AM	45.9	44.4	48.3	05:55 AM - 06:00 AM	48.3	45.7	08:35 AM - 08:40 AM	49.4	47.1
03:20 AM - 03:25 AM	47.3	44.6	45.9	06:00 AM - 06:05 AM	50.2	45.9	08:40 AM - 08:45 AM	69.5	47.9
03:25 AM - 03:30 AM	45.3	44.1	47.2	06:05 AM - 06:10 AM	47.2	45.3	08:45 AM - 08:50 AM	51.8	47.6
03:30 AM - 03:35 AM	50.6	44.0	48.6	06:10 AM - 06:15 AM	48.6	45.5	08:50 AM - 08:55 AM	50.7	45.9
03:35 AM - 03:40 AM	53.4	44.0	50.8	06:15 AM - 06:20 AM	50.8	45.9	08:55 AM - 09:00 AM	52.8	47.9
03:40 AM - 03:45 AM	45.1	44.2	50.1	06:20 AM - 06:25 AM	50.1	46.0	09:00 AM - 09:05 AM	47.9	44.5
03:45 AM - 03:50 AM	46.3	44.5	50.2	06:25 AM - 06:30 AM	50.2	46.3	09:05 AM - 09:10 AM	50.3	47.6
03:50 AM - 03:55 AM	45.6	44.1	49.3	06:30 AM - 06:35 AM	49.3	45.3	09:10 AM - 09:15 AM	52.1	48.4
03:55 AM - 04:00 AM	45.2	44.0	50.9	06:35 AM - 06:40 AM	50.9	47.1	09:15 AM - 09:20 AM	51.8	47.1
04:00 AM - 04:05 AM	46.4	44.6	50.5	06:40 AM - 06:45 AM	50.5	47.2	09:20 AM - 09:25 AM	53.6	46.2
04:05 AM - 04:10 AM	45.7	44.3	51.5	06:45 AM - 06:50 AM	51.5	47.0	09:25 AM - 09:30 AM	52.5	48.8
04:10 AM - 04:15 AM	45.8	44.3	55.2	06:50 AM - 06:55 AM	55.2	49.3	09:30 AM - 09:35 AM	53.5	49.5
04:15 AM - 04:20 AM	52.6	45.6	52.2	06:55 AM - 07:00 AM	52.2	48.8	09:35 AM - 09:40 AM	51.0	48.1
04:20 AM - 04:25 AM	48.8	45.9	51.1	07:00 AM - 07:05 AM	51.1	47.7	09:40 AM - 09:45 AM	52.9	49.0
04:25 AM - 04:30 AM	45.8	44.6	58.6	07:05 AM - 07:10 AM	58.6	49.7	09:45 AM - 09:50 AM	49.6	46.1
04:30 AM - 04:35 AM	49.1	45.2	52.5	07:10 AM - 07:15 AM	52.5	49.7	09:50 AM - 09:55 AM	52.2	47.8
04:35 AM - 04:40 AM	49.0	44.9	52.3	07:15 AM - 07:20 AM	52.3	50.0	09:55 AM - 10:00 AM	56.1	52.7
04:40 AM - 04:45 AM	47.0	45.0	54.3	07:20 AM - 07:25 AM	54.3	51.4	10:00 AM - 10:05 AM	55.1	49.2
04:45 AM - 04:50 AM	46.0	44.9	51.9	07:25 AM - 07:30 AM	51.9	48.5	10:05 AM - 10:10 AM	51.2	47.3
04:50 AM - 04:55 AM	46.5	45.1	51.4	07:30 AM - 07:35 AM	51.4	47.4	10:10 AM - 10:15 AM	46.5	44.3
04:55 AM - 05:00 AM	48.0	45.3	51.5	07:35 AM - 07:40 AM	51.5	48.2	10:15 AM - 10:20 AM	47.5	43.6
05:00 AM - 05:05 AM	46.7	45.1	53.3	07:40 AM - 07:45 AM	53.3	49.4	10:20 AM - 10:25 AM	48.0	44.3
05:05 AM - 05:10 AM	48.4	44.8	60.2	07:45 AM - 07:50 AM	60.2	49.4	10:25 AM - 10:30 AM	46.5	43.7
05:10 AM - 05:15 AM	49.8	44.5	59.0	07:50 AM - 07:55 AM	59.0	48.2	10:30 AM - 10:35 AM	47.9	44.4
05:15 AM - 05:20 AM	45.4	43.4	55.6	07:55 AM - 08:00 AM	55.6	48.9	10:35 AM - 10:40 AM	49.9	46.2
05:20 AM - 05:25 AM	45.1	43.9	59.8	08:00 AM - 08:05 AM	59.8	47.5	10:40 AM - 10:45 AM	48.6	45.0
05:25 AM - 05:30 AM	47.3	44.2	50.6	08:05 AM - 08:10 AM	50.6	46.1	10:45 AM - 10:50 AM	49.1	44.1
05:30 AM - 05:35 AM	50.6	45.9	50.9	08:10 AM - 08:15 AM	50.9	47.2	10:50 AM - 10:55 AM	48.0	43.6
05:35 AM - 05:40 AM	48.0	45.0	50.6	08:15 AM - 08:20 AM	50.6	47.2	10:55 AM - 11:00 AM	48.8	43.8

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Approved by

Sariyuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23124645**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853641-1 C8

Page 1 of 3

Sample Number	23124645-8	Leq	L90	Nov 20, 2023	Leq	L90	Nov 20, 2023	Leq	L90
Parameter	Noise Level (Leq 5 min)	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
Location	พื้นที่วัดเสียงโดยรอบ (ใกล้ห้วยนา)								
Measurement Date	Nov 20 - Nov 21, 2023								
Measurement by	Thanarat Anake								
Sound Level meter	Serial No. 0102262								
10:00 AM - 10:05 AM	55.0	47.9	47.9	12:40 PM - 12:45 PM	52.0	48.8	03:20 PM - 03:25 PM	49.1	47.1
10:05 AM - 10:10 AM	48.7	47.9	47.9	12:45 PM - 12:50 PM	55.3	49.0	03:25 PM - 03:30 PM	49.5	47.1
10:10 AM - 10:15 AM	49.5	48.0	48.0	12:50 PM - 12:55 PM	50.8	48.8	03:30 PM - 03:35 PM	49.0	47.3
10:15 AM - 10:20 AM	50.5	47.3	47.3	12:55 PM - 01:00 PM	50.9	48.7	03:35 PM - 03:40 PM	49.1	47.5
10:20 AM - 10:25 AM	49.9	47.2	47.2	01:00 PM - 01:05 PM	50.0	48.7	03:40 PM - 03:45 PM	50.0	47.7
10:25 AM - 10:30 AM	54.4	48.3	48.3	01:05 PM - 01:10 PM	49.5	48.1	03:45 PM - 03:50 PM	49.1	46.7
10:30 AM - 10:35 AM	50.2	48.3	48.3	01:10 PM - 01:15 PM	50.3	48.7	03:50 PM - 03:55 PM	50.7	47.8
10:35 AM - 10:40 AM	50.4	48.9	48.9	01:15 PM - 01:20 PM	50.2	48.2	03:55 PM - 04:00 PM	49.7	47.9
10:40 AM - 10:45 AM	50.3	48.8	48.8	01:20 PM - 01:25 PM	50.0	48.1	04:00 PM - 04:05 PM	49.3	47.7
10:45 AM - 10:50 AM	50.4	49.1	49.1	01:25 PM - 01:30 PM	50.8	49.0	04:05 PM - 04:10 PM	50.5	47.9
10:50 AM - 10:55 AM	49.6	48.5	48.5	01:30 PM - 01:35 PM	51.5	48.2	04:10 PM - 04:15 PM	50.9	48.2
10:55 AM - 11:00 AM	50.5	48.9	48.9	01:35 PM - 01:40 PM	52.3	48.4	04:15 PM - 04:20 PM	51.0	47.7
11:00 AM - 11:05 AM	50.2	48.5	48.5	01:40 PM - 01:45 PM	49.5	47.9	04:20 PM - 04:25 PM	48.8	47.5
11:05 AM - 11:10 AM	49.8	47.9	47.9	01:45 PM - 01:50 PM	50.6	48.0	04:25 PM - 04:30 PM	52.3	48.1
11:10 AM - 11:15 AM	51.8	49.8	49.8	01:50 PM - 01:55 PM	49.6	48.4	04:30 PM - 04:35 PM	50.8	48.1
11:15 AM - 11:20 AM	50.4	48.8	48.8	01:55 PM - 02:00 PM	49.8	48.5	04:35 PM - 04:40 PM	49.5	47.9
11:20 AM - 11:25 AM	51.3	49.8	49.8	02:00 PM - 02:05 PM	50.0	48.3	04:40 PM - 04:45 PM	50.6	48.7
11:25 AM - 11:30 AM	49.7	48.4	48.4	02:05 PM - 02:10 PM	49.8	48.0	04:45 PM - 04:50 PM	50.0	48.9
11:30 AM - 11:35 AM	51.6	49.2	49.2	02:10 PM - 02:15 PM	49.6	48.0	04:50 PM - 04:55 PM	50.0	48.7
11:35 AM - 11:40 AM	50.9	48.8	48.8	02:15 PM - 02:20 PM	52.4	47.5	04:55 PM - 05:00 PM	50.9	48.7
11:40 AM - 11:45 AM	50.6	48.9	48.9	02:20 PM - 02:25 PM	52.1	48.1	05:00 PM - 05:05 PM	51.5	48.4
11:45 AM - 11:50 AM	53.8	49.8	49.8	02:25 PM - 02:30 PM	52.2	48.3	05:05 PM - 05:10 PM	55.2	51.4
11:50 AM - 11:55 AM	51.1	49.7	49.7	02:30 PM - 02:35 PM	50.8	47.5	05:10 PM - 05:15 PM	54.9	50.6
11:55 AM - 12:00 PM	50.5	49.2	49.2	02:35 PM - 02:40 PM	52.2	48.4	05:15 PM - 05:20 PM	52.9	50.8
12:00 PM - 12:05 PM	52.1	49.9	49.9	02:40 PM - 02:45 PM	57.2	48.1	05:20 PM - 05:25 PM	53.9	50.7
12:05 PM - 12:10 PM	50.6	49.0	49.0	02:45 PM - 02:50 PM	49.8	47.5	05:25 PM - 05:30 PM	52.5	50.1
12:10 PM - 12:15 PM	50.7	49.2	49.2	02:50 PM - 02:55 PM	50.0	47.9	05:30 PM - 05:35 PM	51.2	49.2
12:15 PM - 12:20 PM	51.5	49.7	49.7	02:55 PM - 03:00 PM	48.4	47.0	05:35 PM - 05:40 PM	51.9	50.1
12:20 PM - 12:25 PM	49.9	48.6	48.6	03:00 PM - 03:05 PM	49.2	46.9	05:40 PM - 05:45 PM	50.6	49.4
12:25 PM - 12:30 PM	49.6	48.4	48.4	03:05 PM - 03:10 PM	50.8	47.1	05:45 PM - 05:50 PM	51.1	49.9
12:30 PM - 12:35 PM	51.2	48.6	48.6	03:10 PM - 03:15 PM	50.6	47.6	05:50 PM - 05:55 PM	52.0	49.8
12:35 PM - 12:40 PM	49.7	48.0	48.0	03:15 PM - 03:20 PM	53.3	47.3	05:55 PM - 06:00 PM	52.8	50.3

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Approved by

Sariyuth Jitranont  
Assistant General Manager



Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210802119

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23124645

Date Received :Nov 29, 2023

Date Reported :Dec 07, 2023

Report Number : 2853641-1 C8

## Analysis / Test Report

Sample Number 23124645-8

Parameter Noise Level (Leq 5 min)

Location ฟาร์มกัญชา/ใบยาสูบ/ไร่/ไร่กล้วย/ไร่ส้ม (GPS 47P 0672338, 1576199)

Measurement Date Nov 20 - Nov 21, 2023

Measurement by Thanarat Anake

Sound Level meter Serial No. 01022262

Nov 20, 2023 Time	Leq dB(A)	L90 dB(A)	Nov 20, 2023 Time	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	52.3	51.1	08:40 PM - 08:45 PM	59.8	58.3
06:05 PM - 06:10 PM	53.1	50.8	08:45 PM - 08:50 PM	60.0	58.6
06:10 PM - 06:15 PM	52.4	51.2	08:50 PM - 08:55 PM	60.1	58.8
06:15 PM - 06:20 PM	54.5	52.6	08:55 PM - 09:00 PM	60.1	58.9
06:20 PM - 06:25 PM	57.2	54.7	09:00 PM - 09:05 PM	60.1	58.5
06:25 PM - 06:30 PM	58.5	56.8	09:05 PM - 09:10 PM	60.1	58.6
06:30 PM - 06:35 PM	61.3	58.8	09:10 PM - 09:15 PM	60.0	58.6
06:35 PM - 06:40 PM	61.9	59.4	09:15 PM - 09:20 PM	59.3	57.3
06:40 PM - 06:45 PM	62.9	59.6	09:20 PM - 09:25 PM	57.7	56.4
06:45 PM - 06:50 PM	64.1	62.9	09:25 PM - 09:30 PM	57.9	56.5
06:50 PM - 06:55 PM	64.1	62.7	09:30 PM - 09:35 PM	57.4	56.3
06:55 PM - 07:00 PM	62.8	57.4	09:35 PM - 09:40 PM	58.1	57.0
07:00 PM - 07:05 PM	59.6	58.2	09:40 PM - 09:45 PM	58.4	57.4
07:05 PM - 07:10 PM	63.2	61.4	09:45 PM - 09:50 PM	58.0	56.7
07:10 PM - 07:15 PM	63.5	62.7	09:50 PM - 09:55 PM	58.0	57.3
07:15 PM - 07:20 PM	62.1	59.7	09:55 PM - 10:00 PM	57.5	56.2
07:20 PM - 07:25 PM	58.2	57.5	10:00 PM - 10:05 PM	56.3	53.7
07:25 PM - 07:30 PM	57.5	56.0	10:05 PM - 10:10 PM	56.0	54.1
07:30 PM - 07:35 PM	59.3	57.6	10:10 PM - 10:15 PM	55.1	53.5
07:35 PM - 07:40 PM	61.5	59.7	10:15 PM - 10:20 PM	54.3	52.7
07:40 PM - 07:45 PM	60.3	59.2	10:20 PM - 10:25 PM	54.9	53.3
07:45 PM - 07:50 PM	60.4	59.3	10:25 PM - 10:30 PM	54.7	52.9
07:50 PM - 07:55 PM	61.3	59.8	10:30 PM - 10:35 PM	55.4	53.6
07:55 PM - 08:00 PM	62.2	60.3	10:35 PM - 10:40 PM	55.3	53.4
08:00 PM - 08:05 PM	61.1	59.8	10:40 PM - 10:45 PM	56.1	53.8
08:05 PM - 08:10 PM	60.5	59.0	10:45 PM - 10:50 PM	55.9	53.7
08:10 PM - 08:15 PM	60.1	58.2	10:50 PM - 10:55 PM	55.6	53.1
08:15 PM - 08:20 PM	59.8	58.4	10:55 PM - 11:00 PM	55.0	53.2
08:20 PM - 08:25 PM	60.3	59.1	11:00 PM - 11:05 PM	55.5	53.0
08:25 PM - 08:30 PM	60.1	58.5	11:05 PM - 11:10 PM	56.6	54.1
08:30 PM - 08:35 PM	59.8	58.2	11:10 PM - 11:15 PM	55.4	52.7
08:35 PM - 08:40 PM	59.7	58.1	11:15 PM - 11:20 PM	54.6	52.2

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Approved by

Sarayuth Jitranont  
Assistant General Manager



Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210802119

Project Name : Monitoring EIA

Project Location : GBL

## Analysis / Test Report

Sample Number 23124645-8

Parameter Noise Level (Leq 5 min)

Location ฟาร์มกัญชา/ใบยาสูบ/ไร่/ไร่กล้วย/ไร่ส้ม (GPS 47P 0672338, 1576199)

Measurement Date Nov 20 - Nov 21, 2023

Measurement by Thanarat Anake

Sound Level meter Serial No. 01022262

Nov 21, 2023 Time	Leq dB(A)	L90 dB(A)	Nov 21, 2023 Time	Leq dB(A)	L90 dB(A)
02:00 AM - 02:05 AM	58.5	55.0	04:40 AM - 04:45 AM	54.4	53.8
02:05 AM - 02:10 AM	56.0	54.7	04:45 AM - 04:50 AM	54.3	53.8
02:10 AM - 02:15 AM	56.0	54.6	04:50 AM - 04:55 AM	54.0	53.3
02:15 AM - 02:20 AM	54.9	54.1	04:55 AM - 05:00 AM	54.4	53.8
02:20 AM - 02:25 AM	54.9	54.0	05:00 AM - 05:05 AM	54.6	53.8
02:25 AM - 02:30 AM	55.0	54.3	05:05 AM - 05:10 AM	52.9	50.8
02:30 AM - 02:35 AM	53.5	53.5	05:10 AM - 05:15 AM	55.3	54.1
02:35 AM - 02:40 AM	53.9	53.4	05:15 AM - 05:20 AM	55.9	54.5
02:40 AM - 02:45 AM	54.0	53.5	05:20 AM - 05:25 AM	56.0	54.6
02:45 AM - 02:50 AM	54.3	53.8	05:25 AM - 05:30 AM	55.8	54.4
02:50 AM - 02:55 AM	54.1	53.5	05:30 AM - 05:35 AM	55.4	54.3
02:55 AM - 03:00 AM	54.1	53.5	05:35 AM - 05:40 AM	56.2	54.5
03:00 AM - 03:05 AM	54.3	53.8	05:40 AM - 05:45 AM	54.4	51.9
03:05 AM - 03:10 AM	54.4	53.9	05:45 AM - 05:50 AM	54.6	51.5
03:10 AM - 03:15 AM	54.3	53.8	05:50 AM - 05:55 AM	53.1	51.2
03:15 AM - 03:20 AM	54.2	53.8	05:55 AM - 06:00 AM	53.9	51.5
03:20 AM - 03:25 AM	54.4	53.9	06:00 AM - 06:05 AM	55.5	50.7
03:25 AM - 03:30 AM	54.5	53.8	06:05 AM - 06:10 AM	55.2	51.7
03:30 AM - 03:35 AM	54.6	54.0	06:10 AM - 06:15 AM	55.0	51.4
03:35 AM - 03:40 AM	54.1	53.7	06:15 AM - 06:20 AM	54.0	50.6
03:40 AM - 03:45 AM	58.2	53.7	06:20 AM - 06:25 AM	53.0	50.6
03:45 AM - 03:50 AM	54.2	53.6	06:25 AM - 06:30 AM	52.2	50.3
03:50 AM - 03:55 AM	54.2	53.6	06:30 AM - 06:35 AM	51.3	49.5
03:55 AM - 04:00 AM	54.3	53.6	06:35 AM - 06:40 AM	51.5	50.0
04:00 AM - 04:05 AM	53.9	53.6	06:40 AM - 06:45 AM	54.2	50.5
04:05 AM - 04:10 AM	53.8	53.4	06:45 AM - 06:50 AM	52.9	50.8
04:10 AM - 04:15 AM	53.9	53.5	06:50 AM - 06:55 AM	52.4	50.4
04:15 AM - 04:20 AM	54.0	53.5	06:55 AM - 07:00 AM	52.2	50.2
04:20 AM - 04:25 AM	53.8	53.4	07:00 AM - 07:05 AM	53.8	50.6
04:25 AM - 04:30 AM	54.2	53.8	07:05 AM - 07:10 AM	53.4	51.2
04:30 AM - 04:35 AM	54.5	53.8	07:10 AM - 07:15 AM	53.9	51.4
04:35 AM - 04:40 AM	54.5	53.9	07:15 AM - 07:20 AM	54.2	50.3

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Approved by

Sarayuth Jitranont  
Assistant General Manager





**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23124645**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853642-1 C8

## Analysis / Test Report

Page 1 of 2

Sample Number	23124645-9	Leq	L90	Nov 21, 2023	Leq	L90	Nov 21, 2023	Leq	L90
Parameter	Noise Level (Leq 5 min)	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
Location	พื้นที่การดำเนินงานโครงการ (GPS 47P 0672338, 1576199)								
Measurement Date	Nov 21 - Nov 22, 2023								
Measurement by	Thananot Anake								
Sound Level meter	Serial No. 01022262								
10:00 AM - 10:05 AM	49.6	47.7	46.4	12:40 PM - 12:45 PM	48.5	46.4	03:20 PM - 03:25 PM	48.0	45.8
10:05 AM - 10:10 AM	56.1	47.8	47.3	12:45 PM - 12:50 PM	47.3	46.1	03:25 PM - 03:30 PM	47.4	45.5
10:10 AM - 10:15 AM	48.8	47.3	47.9	12:50 PM - 12:55 PM	47.9	46.5	03:30 PM - 03:35 PM	51.6	45.5
10:15 AM - 10:20 AM	49.7	47.7	47.7	12:55 PM - 01:00 PM	54.0	46.0	03:35 PM - 03:40 PM	48.8	45.7
10:20 AM - 10:25 AM	49.2	47.4	47.4	01:00 PM - 01:05 PM	49.9	46.2	03:40 PM - 03:45 PM	51.1	46.9
10:25 AM - 10:30 AM	49.7	47.6	47.3	01:05 PM - 01:10 PM	47.3	45.9	03:45 PM - 03:50 PM	48.8	46.2
10:30 AM - 10:35 AM	48.5	47.4	46.7	01:10 PM - 01:15 PM	48.3	46.7	03:50 PM - 03:55 PM	48.5	45.4
10:35 AM - 10:40 AM	49.0	47.9	48.6	01:15 PM - 01:20 PM	48.6	46.9	03:55 PM - 04:00 PM	47.9	45.7
10:40 AM - 10:45 AM	48.5	47.2	46.3	01:20 PM - 01:25 PM	49.2	46.3	04:00 PM - 04:05 PM	47.7	45.7
10:45 AM - 10:50 AM	49.2	47.5	48.5	01:25 PM - 01:30 PM	48.5	46.1	04:05 PM - 04:10 PM	50.3	46.6
10:50 AM - 10:55 AM	49.5	47.7	47.8	01:30 PM - 01:35 PM	47.8	45.8	04:10 PM - 04:15 PM	49.3	45.7
10:55 AM - 11:00 AM	52.2	48.5	46.0	01:35 PM - 01:40 PM	49.3	46.0	04:15 PM - 04:20 PM	48.8	46.0
11:00 AM - 11:05 AM	50.0	47.7	46.6	01:40 PM - 01:45 PM	50.1	46.6	04:20 PM - 04:25 PM	48.9	46.2
11:05 AM - 11:10 AM	49.4	48.0	47.4	01:45 PM - 01:50 PM	47.4	45.9	04:25 PM - 04:30 PM	48.2	45.9
11:10 AM - 11:15 AM	50.3	48.5	45.5	01:50 PM - 01:55 PM	48.6	45.5	04:30 PM - 04:35 PM	50.8	46.0
11:15 AM - 11:20 AM	49.3	47.9	48.5	01:55 PM - 02:00 PM	48.5	46.0	04:35 PM - 04:40 PM	47.9	46.7
11:20 AM - 11:25 AM	48.9	47.5	47.8	02:00 PM - 02:05 PM	47.8	45.9	04:40 PM - 04:45 PM	49.3	47.3
11:25 AM - 11:30 AM	49.5	47.6	46.8	02:05 PM - 02:10 PM	49.2	46.8	04:45 PM - 04:50 PM	48.7	47.1
11:30 AM - 11:35 AM	50.4	47.9	47.8	02:10 PM - 02:15 PM	47.8	45.9	04:50 PM - 04:55 PM	50.4	47.7
11:35 AM - 11:40 AM	50.9	47.9	48.9	02:15 PM - 02:20 PM	48.9	45.7	04:55 PM - 05:00 PM	49.0	47.2
11:40 AM - 11:45 AM	50.5	47.0	49.9	02:20 PM - 02:25 PM	49.9	45.7	05:00 PM - 05:05 PM	49.8	47.4
11:45 AM - 11:50 AM	49.0	46.9	47.3	02:25 PM - 02:30 PM	47.3	45.5	05:05 PM - 05:10 PM	53.5	49.9
11:50 AM - 11:55 AM	49.2	46.9	48.5	02:30 PM - 02:35 PM	48.5	46.5	05:10 PM - 05:15 PM	51.3	49.7
11:55 AM - 12:00 PM	51.5	47.4	48.8	02:35 PM - 02:40 PM	48.8	45.7	05:15 PM - 05:20 PM	51.4	49.7
12:00 PM - 12:05 PM	48.7	47.5	46.3	02:40 PM - 02:45 PM	48.4	46.3	05:20 PM - 05:25 PM	55.3	50.5
12:05 PM - 12:10 PM	49.8	47.0	48.5	02:45 PM - 02:50 PM	48.5	45.8	05:25 PM - 05:30 PM	51.7	49.4
12:10 PM - 12:15 PM	49.2	47.2	47.6	02:50 PM - 02:55 PM	47.6	46.0	05:30 PM - 05:35 PM	51.1	49.3
12:15 PM - 12:20 PM	48.3	46.5	45.7	02:55 PM - 03:00 PM	46.7	45.5	05:35 PM - 05:40 PM	51.7	49.2
12:20 PM - 12:25 PM	48.7	46.9	48.2	03:00 PM - 03:05 PM	48.2	45.7	05:40 PM - 05:45 PM	52.0	49.6
12:25 PM - 12:30 PM	51.0	46.4	49.0	03:05 PM - 03:10 PM	49.0	46.4	05:45 PM - 05:50 PM	49.9	48.7
12:30 PM - 12:35 PM	48.1	46.2	47.7	03:10 PM - 03:15 PM	45.9	45.9	05:50 PM - 05:55 PM	50.5	48.9
12:35 PM - 12:40 PM	49.0	46.7	49.3	03:15 PM - 03:20 PM	47.3	45.3	05:55 PM - 06:00 PM	51.6	50.2

Sarayuth Jitranont  
Assistant General Manager

Approved by

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**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23124645**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853642-1 C8

## Analysis / Test Report

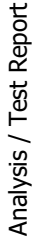
Page 2 of 3

Sample Number	23124645-9	Leq	L90	Nov 21, 2023	Leq	L90	Nov 21, 2023	Leq	L90
Parameter	Noise Level (Leq 5 min)	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
Location	พื้นที่การดำเนินงานโครงการ (GPS 47P 0672338, 1576199)								
Measurement Date	Nov 21 - Nov 22, 2023								
Measurement by	Thananot Anake								
Sound Level meter	Serial No. 01022262								
06:00 PM - 06:05 PM	50.8	49.6	63.3	06:40 PM - 06:45 PM	59.1	55.8	11:20 PM - 11:25 PM	60.5	59.2
06:05 PM - 06:10 PM	51.7	50.1	59.1	06:45 PM - 06:50 PM	59.7	56.7	11:25 PM - 11:30 PM	60.5	58.9
06:10 PM - 06:15 PM	52.3	51.1	59.7	06:50 PM - 06:55 PM	61.6	59.3	11:30 PM - 11:35 PM	60.5	59.0
06:15 PM - 06:20 PM	55.2	51.3	62.4	06:55 PM - 07:00 PM	56.1	59.1	11:35 PM - 11:40 PM	60.8	59.4
06:20 PM - 06:25 PM	56.1	52.3	63.6	07:00 PM - 07:05 PM	56.6	61.0	11:40 PM - 11:45 PM	60.8	59.5
06:25 PM - 06:30 PM	59.3	56.0	63.6	07:05 PM - 07:10 PM	59.3	60.7	11:45 PM - 11:50 PM	60.4	58.6
06:30 PM - 06:35 PM	59.3	56.0	63.6	07:10 PM - 07:15 PM	63.2	62.1	11:50 PM - 11:55 PM	60.6	58.9
06:35 PM - 06:40 PM	64.1	61.1	63.7	07:15 PM - 07:20 PM	63.7	61.3	11:55 PM - 12:00 AM	60.7	59.1
06:40 PM - 06:45 PM	65.0	64.0	63.6	07:20 PM - 07:25 PM	63.7	61.2	12:00 AM - 12:05 AM	59.4	53.8
06:45 PM - 06:50 PM	65.0	64.0	63.6	07:25 PM - 07:30 PM	63.6	61.2	12:05 AM - 12:10 AM	60.1	58.2
06:50 PM - 06:55 PM	65.2	63.2	63.7	07:30 PM - 07:35 PM	63.7	61.3	12:10 AM - 12:15 AM	60.1	58.4
06:55 PM - 07:00 PM	65.8	64.5	62.7	07:35 PM - 07:40 PM	63.7	61.3	12:15 AM - 12:20 AM	59.6	57.8
07:00 PM - 07:05 PM	66.3	64.9	62.7	07:40 PM - 07:45 PM	63.3	61.2	12:20 AM - 12:25 AM	60.4	59.1
07:05 PM - 07:10 PM	65.6	63.4	63.3	07:45 PM - 07:50 PM	63.3	61.2	12:25 AM - 12:30 AM	60.3	58.7
07:10 PM - 07:15 PM	66.0	65.3	63.0	07:50 PM - 07:55 PM	63.0	60.0	12:30 AM - 12:35 AM	60.1	58.6
07:15 PM - 07:20 PM	65.1	64.1	63.5	07:55 PM - 10:00 PM	63.5	61.0	12:35 AM - 12:40 AM	60.2	58.7
07:20 PM - 07:25 PM	65.4	64.5	63.6	10:00 PM - 10:05 PM	63.6	61.0	12:40 AM - 12:45 AM	60.0	58.2
07:25 PM - 07:30 PM	64.9	63.9	60.8	10:05 PM - 10:10 PM	60.8	59.7	12:45 AM - 12:50 AM	60.2	58.7
07:30 PM - 07:35 PM	64.5	62.7	60.8	10:10 PM - 10:15 PM	60.8	59.6	12:50 AM - 12:55 AM	59.3	58.0
07:35 PM - 07:40 PM	63.0	60.8	60.8	10:15 PM - 10:20 PM	60.8	59.5	12:55 AM - 01:00 AM	59.6	58.1
07:40 PM - 07:45 PM	65.5	64.1	60.8	10:20 PM - 10:25 PM	60.8	59.2	01:00 AM - 01:05 AM	59.7	58.1
07:45 PM - 07:50 PM	64.4	63.2	61.1	10:25 PM - 10:30 PM	61.1	60.3	01:05 AM - 01:10 AM	60.0	58.8
07:50 PM - 07:55 PM	64.4	61.9	60.1	10:30 PM - 10:35 PM	61.0	60.1	01:10 AM - 01:15 AM	59.7	58.3
07:55 PM - 08:00 PM	64.4	62.1	61.0	10:35 PM - 10:40 PM	61.0	59.7	01:15 AM - 01:20 AM	59.0	57.2
08:00 PM - 08:05 PM	64.0	63.1	60.8	10:40 PM - 10:45 PM	60.8	59.1	01:20 AM - 01:25 AM	59.7	58.2
08:05 PM - 08:10 PM	63.8	62.3	60.7	10:45 PM - 10:50 PM	60.7	59.2	01:25 AM - 01:30 AM	59.2	57.6
08:10 PM - 08:15 PM	64.3	63.2	60.7	10:50 PM - 10:55 PM	60.7	59.5	01:30 AM - 01:35 AM	58.1	57.2
08:15 PM - 08:20 PM	64.6	63.4	60.6	10:55 PM - 11:00 PM	60.6	58.9	01:35 AM - 01:40 AM	57.7	56.8
08:20 PM - 08:25 PM	63.6	60.3	60.7	11:00 PM - 11:05 PM	60.7	59.4	01:40 AM - 01:45 AM	58.1	57.0
08:25 PM - 08:30 PM	63.9	61.5	60.7	11:05 PM - 11:10 PM	60.7	59.3	01:45 AM - 01:50 AM	57.7	56.6
08:30 PM - 08:35 PM	64.0	61.4	60.8	11:10 PM - 11:15 PM	60.8	59.3	01:50 AM - 01:55 AM	57.5	56.5
08:35 PM - 08:40 PM	63.9	61.2	60.6	11:15 PM - 11:20 PM	60.6	59.3	01:55 AM - 02:00 AM	59.0	57.2

Sarayuth Jitranont  
Assistant General Manager

Approved by

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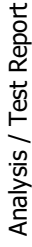


Page 1 of 3

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**Sarayuth Jittranont**  
**Assistant General Manager**

**RIGHT SOLUTIONS RIGHT PARTNER**  
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Sarayuth Jitranont  
Assistant General Manager

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**RIGHT SOLUTIONS RIGHT PARTNER**



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23124645**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853643-1 C8

Page 2 of 3

**Sample Number** 23124645-10  
**Parameter** Noise Level (Leq 5 min)  
**Location** ฟาร์มกัญชาบ้านไผ่ (ฟาร์มกัญชา)Tesuntri (GPS 47P 0672338, 1576199)  
**Measurement Date** Nov 22 - Nov 23, 2023  
**Measurement by** Thanarat Anake  
**Sound Level meter** Serial No. 01022262

Nov 22, 2023 Time	Leq dB(A)	L90 dB(A)	Nov 22, 2023 Time	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	54.3	50.1	08:40 PM - 08:45 PM	58.4	56.9
06:05 PM - 06:10 PM	53.1	50.5	08:45 PM - 08:50 PM	58.4	57.2
06:10 PM - 06:15 PM	54.0	51.0	08:50 PM - 08:55 PM	58.2	57.2
06:15 PM - 06:20 PM	57.9	51.8	08:55 PM - 09:00 PM	58.2	55.8
06:20 PM - 06:25 PM	53.3	52.5	09:00 PM - 09:05 PM	58.1	56.6
06:25 PM - 06:30 PM	53.7	52.3	09:05 PM - 09:10 PM	57.8	56.4
06:30 PM - 06:35 PM	55.5	54.0	09:10 PM - 09:15 PM	57.8	56.0
06:35 PM - 06:40 PM	58.7	55.8	09:15 PM - 09:20 PM	58.3	56.3
06:40 PM - 06:45 PM	58.0	56.2	09:20 PM - 09:25 PM	58.6	56.8
06:45 PM - 06:50 PM	57.8	56.6	09:25 PM - 09:30 PM	59.4	58.2
06:50 PM - 06:55 PM	59.1	57.6	09:30 PM - 09:35 PM	59.0	56.9
06:55 PM - 07:00 PM	60.1	58.7	09:35 PM - 09:40 PM	57.4	55.2
07:00 PM - 07:05 PM	60.6	59.5	09:40 PM - 09:45 PM	58.6	56.9
07:05 PM - 07:10 PM	60.2	59.5	09:45 PM - 09:50 PM	59.4	57.7
07:10 PM - 07:15 PM	60.6	59.8	09:50 PM - 09:55 PM	59.5	58.1
07:15 PM - 07:20 PM	60.0	58.4	09:55 PM - 10:00 PM	59.0	57.1
07:20 PM - 07:25 PM	59.6	58.7	10:00 PM - 10:05 PM	57.4	55.1
07:25 PM - 07:30 PM	62.6	60.1	10:05 PM - 10:10 PM	56.3	54.0
07:30 PM - 07:35 PM	60.4	59.3	10:10 PM - 10:15 PM	57.6	55.3
07:35 PM - 07:40 PM	61.8	59.3	10:15 PM - 10:20 PM	58.0	55.8
07:40 PM - 07:45 PM	61.9	58.8	10:20 PM - 10:25 PM	57.7	55.9
07:45 PM - 07:50 PM	59.5	58.7	10:25 PM - 10:30 PM	57.0	55.2
07:50 PM - 07:55 PM	59.9	59.1	10:30 PM - 10:35 PM	57.9	56.3
07:55 PM - 08:00 PM	59.8	59.0	10:35 PM - 10:40 PM	57.8	56.3
08:00 PM - 08:05 PM	59.7	58.8	10:40 PM - 10:45 PM	57.8	56.3
08:05 PM - 08:10 PM	58.9	57.5	10:45 PM - 10:50 PM	56.9	54.8
08:10 PM - 08:15 PM	60.0	57.6	10:50 PM - 10:55 PM	57.1	55.4
08:15 PM - 08:20 PM	58.8	57.8	10:55 PM - 11:00 PM	56.3	54.3
08:20 PM - 08:25 PM	58.7	57.2	11:00 PM - 11:05 PM	56.1	55.1
08:25 PM - 08:30 PM	57.4	55.2	11:05 PM - 11:10 PM	55.8	54.5
08:30 PM - 08:35 PM	57.8	55.8	11:10 PM - 11:15 PM	56.2	54.9
08:35 PM - 08:40 PM	58.3	57.2	11:15 PM - 11:20 PM	54.8	52.7

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Sarayuth Jitranont  
Assistant General Manager

Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23124645**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853643-1 C8

Page 3 of 3

**Sample Number** 23124645-10  
**Parameter** Noise Level (Leq 5 min)  
**Location** ฟาร์มกัญชาบ้านไผ่ (ฟาร์มกัญชา)Tesuntri (GPS 47P 0672338, 1576199)  
**Measurement Date** Nov 22 - Nov 23, 2023  
**Measurement by** Thanarat Anake  
**Sound Level meter** Serial No. 01022262

Nov 23, 2023 Time	Leq dB(A)	L90 dB(A)	Nov 23, 2023 Time	Leq dB(A)	L90 dB(A)
02:00 AM - 02:05 AM	51.8	49.8	04:40 AM - 04:45 AM	55.9	54.8
02:05 AM - 02:10 AM	53.6	51.7	04:45 AM - 04:50 AM	56.1	55.1
02:10 AM - 02:15 AM	53.8	51.8	04:50 AM - 04:55 AM	55.4	54.0
02:15 AM - 02:20 AM	55.6	52.1	04:55 AM - 05:00 AM	55.3	54.2
02:20 AM - 02:25 AM	53.4	51.4	05:00 AM - 05:05 AM	55.2	54.1
02:25 AM - 02:30 AM	53.0	51.5	05:05 AM - 05:10 AM	55.2	54.1
02:30 AM - 02:35 AM	52.8	51.1	05:10 AM - 05:15 AM	55.6	54.5
02:35 AM - 02:40 AM	51.9	49.8	05:15 AM - 05:20 AM	55.5	54.5
02:40 AM - 02:45 AM	52.8	51.5	05:20 AM - 05:25 AM	55.2	54.1
02:45 AM - 02:50 AM	52.6	51.2	05:25 AM - 05:30 AM	54.9	53.9
02:50 AM - 02:55 AM	52.3	50.3	05:30 AM - 05:35 AM	55.1	53.9
02:55 AM - 03:00 AM	52.5	50.7	05:35 AM - 05:40 AM	54.8	53.3
03:00 AM - 03:05 AM	53.2	51.9	05:40 AM - 05:45 AM	54.2	52.6
03:05 AM - 03:10 AM	53.1	51.9	05:45 AM - 05:50 AM	54.8	53.3
03:10 AM - 03:15 AM	53.6	52.6	05:50 AM - 05:55 AM	55.6	54.6
03:15 AM - 03:20 AM	55.3	54.1	05:55 AM - 06:00 AM	55.3	54.4
03:20 AM - 03:25 AM	54.6	52.0	06:00 AM - 06:05 AM	55.7	54.5
03:25 AM - 03:30 AM	54.0	52.6	06:05 AM - 06:10 AM	55.3	53.4
03:30 AM - 03:35 AM	54.1	53.0	06:10 AM - 06:15 AM	52.7	50.9
03:35 AM - 03:40 AM	54.2	53.2	06:15 AM - 06:20 AM	52.0	51.3
03:40 AM - 03:45 AM	52.9	51.4	06:20 AM - 06:25 AM	52.0	50.9
03:45 AM - 03:50 AM	52.7	51.2	06:25 AM - 06:30 AM	51.4	50.5
03:50 AM - 03:55 AM	52.8	51.5	06:30 AM - 06:35 AM	52.6	50.5
03:55 AM - 04:00 AM	53.0	51.3	06:35 AM - 06:40 AM	51.9	50.0
04:00 AM - 04:05 AM	52.4	50.4	06:40 AM - 06:45 AM	52.6	49.9
04:05 AM - 04:10 AM	51.8	49.6	06:45 AM - 06:50 AM	51.9	50.2
04:10 AM - 04:15 AM	52.7	51.2	06:50 AM - 06:55 AM	51.3	49.5
04:15 AM - 04:20 AM	53.0	51.8	06:55 AM - 07:00 AM	50.9	49.5
04:20 AM - 04:25 AM	53.0	51.7	07:00 AM - 07:05 AM	51.9	49.9
04:25 AM - 04:30 AM	55.0	53.1	07:05 AM - 07:10 AM	52.0	49.8
04:30 AM - 04:35 AM	56.3	55.3	07:10 AM - 07:15 AM	52.3	50.0
04:35 AM - 04:40 AM	56.0	54.9	07:15 AM - 07:20 AM	52.0	50.1

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**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23124645**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853644-1 C8

## Analysis / Test Report

Page 1 of 2

Sample Number		23124645-11									
Location		Noise Level (Leq 5 min)									
Measurement Date		พื้นที่ทางเดินรถ(ใกล้จุดทดสอบ) (GPS 47P 0672338, 1576199)									
Measurement by		Nov 23 - Nov 24, 2023									
Sound Level meter		Thananat Anake									
		Serial No. 01022262									
Nov 23, 2023	Time	Leq dB(A)	L90 dB(A)	Nov 23, 2023	Time	Leq dB(A)	L90 dB(A)	Nov 23, 2023	Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM		49.8	48.1	12:40 PM - 12:45 PM		47.5	45.8	03:20 PM - 03:25 PM		48.0	45.2
10:05 AM - 10:10 AM		50.4	47.9	12:45 PM - 12:50 PM		46.8	45.1	03:25 PM - 03:30 PM		47.5	45.2
10:10 AM - 10:15 AM		49.8	47.9	12:50 PM - 12:55 PM		46.2	45.1	03:30 PM - 03:35 PM		47.0	45.3
10:15 AM - 10:20 AM		48.9	47.3	12:55 PM - 01:00 PM		46.7	45.3	03:35 PM - 03:40 PM		47.8	45.5
10:20 AM - 10:25 AM		49.5	47.3	01:00 PM - 01:05 PM		49.3	44.7	03:40 PM - 03:45 PM		46.9	45.8
10:25 AM - 10:30 AM		53.9	47.5	01:05 PM - 01:10 PM		46.7	44.8	03:45 PM - 03:50 PM		47.0	45.8
10:30 AM - 10:35 AM		48.1	46.9	01:10 PM - 01:15 PM		47.4	45.9	03:50 PM - 03:55 PM		47.7	46.2
10:35 AM - 10:40 AM		48.8	47.0	01:15 PM - 01:20 PM		47.8	45.1	03:55 PM - 04:00 PM		46.8	45.8
10:40 AM - 10:45 AM		48.7	47.2	01:20 PM - 01:25 PM		46.8	45.4	04:00 PM - 04:05 PM		49.9	45.9
10:45 AM - 10:50 AM		48.2	46.6	01:25 PM - 01:30 PM		47.1	45.2	04:05 PM - 04:10 PM		46.9	45.3
10:50 AM - 10:55 AM		48.4	46.7	01:30 PM - 01:35 PM		48.2	45.3	04:10 PM - 04:15 PM		47.6	45.8
10:55 AM - 11:00 AM		50.2	46.2	01:35 PM - 01:40 PM		47.2	45.1	04:15 PM - 04:20 PM		49.0	45.7
11:00 AM - 11:05 AM		50.8	47.1	01:40 PM - 01:45 PM		47.6	46.2	04:20 PM - 04:25 PM		50.4	45.8
11:05 AM - 11:10 AM		48.7	47.1	01:45 PM - 01:50 PM		49.0	46.7	04:25 PM - 04:30 PM		48.8	46.3
11:10 AM - 11:15 AM		48.1	46.4	01:50 PM - 01:55 PM		49.7	47.4	04:30 PM - 04:35 PM		46.5	45.8
11:15 AM - 11:20 AM		49.1	46.9	01:55 PM - 02:00 PM		60.3	47.7	04:35 PM - 04:40 PM		50.3	46.3
11:20 AM - 11:25 AM		50.2	46.9	02:00 PM - 02:05 PM		52.9	46.2	04:40 PM - 04:45 PM		60.2	46.9
11:25 AM - 11:30 AM		49.3	45.5	02:05 PM - 02:10 PM		47.6	46.4	04:45 PM - 04:50 PM		55.0	47.0
11:30 AM - 11:35 AM		48.8	46.1	02:10 PM - 02:15 PM		48.4	46.1	04:50 PM - 04:55 PM		49.5	46.8
11:35 AM - 11:40 AM		47.6	46.2	02:15 PM - 02:20 PM		48.3	45.0	04:55 PM - 05:00 PM		50.5	47.1
11:40 AM - 11:45 AM		48.2	46.7	02:20 PM - 02:25 PM		48.1	46.5	05:00 PM - 05:05 PM		50.1	47.3
11:45 AM - 11:50 AM		50.8	45.8	02:25 PM - 02:30 PM		50.0	46.7	05:05 PM - 05:10 PM		53.5	47.7
11:50 AM - 11:55 AM		48.8	45.6	02:30 PM - 02:35 PM		48.0	46.9	05:10 PM - 05:15 PM		52.5	49.2
11:55 AM - 12:00 PM		48.8	45.5	02:35 PM - 02:40 PM		47.3	45.3	05:15 PM - 05:20 PM		51.8	49.8
12:00 PM - 12:05 PM		48.3	46.0	02:40 PM - 02:45 PM		47.6	44.6	05:20 PM - 05:25 PM		52.3	50.2
12:05 PM - 12:10 PM		47.3	46.0	02:45 PM - 02:50 PM		47.0	45.2	05:25 PM - 05:30 PM		56.6	50.9
12:10 PM - 12:15 PM		47.6	46.1	02:50 PM - 02:55 PM		47.1	45.5	05:30 PM - 05:35 PM		57.6	51.5
12:15 PM - 12:20 PM		47.9	45.8	02:55 PM - 03:00 PM		46.2	45.0	05:35 PM - 05:40 PM		52.5	49.4
12:20 PM - 12:25 PM		47.3	45.7	03:00 PM - 03:05 PM		47.8	46.4	05:40 PM - 05:45 PM		51.6	48.8
12:25 PM - 12:30 PM		48.0	46.3	03:05 PM - 03:10 PM		49.1	46.9	05:45 PM - 05:50 PM		51.9	49.9
12:30 PM - 12:35 PM		47.8	46.0	03:10 PM - 03:15 PM		49.9	47.3	05:50 PM - 05:55 PM		51.0	49.7
12:35 PM - 12:40 PM		47.4	45.9	03:15 PM - 03:20 PM		48.5	46.3	05:55 PM - 06:00 PM		51.6	49.7

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Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23124645**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853644-1 C8

## Analysis / Test Report

Page 2 of 3

Sample Number	23124645-11	
Parameter	Noise Level (Leq 5 min)	
Location	พื้นที่ทางเดินรถ(ใกล้จุดทดสอบ) (GPS 47P 0672338, 1576199)	
Measurement Date	Nov 23 - Nov 24, 2023	
Measurement by	Thananot Anake	
Sound Level meter	Serial No. 01022262	
Nov 23, 2023	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	51.3	49.9
06:05 PM - 06:10 PM	53.2	50.7
06:10 PM - 06:15 PM	52.9	50.4
06:15 PM - 06:20 PM	57.2	51.9
06:20 PM - 06:25 PM	60.5	51.8
06:25 PM - 06:30 PM	56.1	52.2
06:30 PM - 06:35 PM	58.0	53.5
06:35 PM - 06:40 PM	58.5	55.8
06:40 PM - 06:45 PM	60.2	57.4
06:45 PM - 06:50 PM	62.3	60.6
06:50 PM - 06:55 PM	62.1	61.0
06:55 PM - 07:00 PM	63.8	61.4
07:00 PM - 07:05 PM	63.2	61.1
07:05 PM - 07:10 PM	62.0	61.4
07:10 PM - 07:15 PM	61.9	61.3
07:15 PM - 07:20 PM	61.6	61.0
07:20 PM - 07:25 PM	61.7	61.0
07:25 PM - 07:30 PM	61.2	60.6
07:30 PM - 07:35 PM	61.4	60.4
07:35 PM - 07:40 PM	61.5	60.7
07:40 PM - 07:45 PM	61.6	60.7
07:45 PM - 07:50 PM	62.0	60.6
07:50 PM - 07:55 PM	60.8	60.1
07:55 PM - 08:00 PM	61.3	60.2
08:00 PM - 08:05 PM	60.8	60.1
08:05 PM - 08:10 PM	61.2	59.7
08:10 PM - 08:15 PM	61.0	59.4
08:15 PM - 08:20 PM	60.3	59.5
08:20 PM - 08:25 PM	60.8	59.9
08:25 PM - 08:30 PM	60.9	59.7
08:30 PM - 08:35 PM	60.2	59.5
08:35 PM - 08:40 PM	60.4	59.9
Nov 23 - Nov 24, 2023	Leq dB(A)	L90 dB(A)
11:20 PM - 11:25 PM	58.7	57.9
11:25 PM - 11:30 PM	58.9	57.6
11:30 PM - 11:35 PM	58.8	57.8
11:35 PM - 11:40 PM	58.8	58.3
11:40 PM - 11:45 PM	58.5	57.8
11:45 PM - 11:50 PM	58.8	58.3
11:50 PM - 11:55 PM	58.6	57.9
11:55 PM - 12:00 AM	58.4	57.6
12:00 AM - 12:05 AM	57.7	56.8
12:05 AM - 12:10 AM	57.6	56.8
12:10 AM - 12:15 AM	58.2	57.3
12:15 AM - 12:20 AM	58.5	57.6
12:20 AM - 12:25 AM	58.2	57.2
12:25 AM - 12:30 AM	58.3	57.4
12:30 AM - 12:35 AM	58.3	57.5
12:35 AM - 12:40 AM	58.1	57.0
12:40 AM - 12:45 AM	57.7	56.8
12:45 AM - 12:50 AM	57.0	55.8
12:50 AM - 12:55 AM	56.5	55.8
12:55 AM - 01:00 AM	56.8	56.1
01:00 AM - 01:05 AM	56.8	56.3
01:05 AM - 01:10 AM	56.3	55.6
01:10 AM - 01:15 AM	57.1	56.4
01:15 AM - 01:20 AM	56.8	55.9
01:20 AM - 01:25 AM	56.8	55.9
01:25 AM - 01:30 AM	57.2	56.2
01:30 AM - 01:35 AM	57.4	56.3
01:35 AM - 01:40 AM	57.6	56.6
01:40 AM - 01:45 AM	57.0	56.1
01:45 AM - 01:50 AM	57.9	57.1
01:50 AM - 01:55 AM	57.2	56.5
01:55 AM - 02:00 AM	57.2	56.4

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Approved by

Sarayuth Jitranont  
Assistant General Manager

## Analysis / Test Report

**Client** : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

**P/O:** 4210802119

Project Name : Monitoring ETA

<b>Project Name</b>	: Homecoming Lab
<b>Project Location</b>	: GBI

**Lot ID: 23124645**

Date Received : Nov 29, 2023

Date Reported :Dec 07, 2023

Report Number: 2853644-1 C8

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Page 1 of 3

Sample Number	23124645-12
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Parameter	Noise Level (Leq 5 min)
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**Location**  
บ้านคำภายในวัดม่วยใหญ่ใต้เชิงโคกการ (GPS 47P 0672338. 1576199)

Measurement Date	Nov 24 - Nov 25, 2023
------------------	-----------------------

### Measurement by Thananat Anake

**Sound Level meter** Serial No. 01022262

Nov 24, 2023		Nov 24, 2023		Nov 24, 2023		Nov 24, 2023		Nov 24, 2023		Nov 24, 2023	
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM	50.8	48.8	12:40 PM - 12:45 PM	49.2	45.9	03:20 PM - 03:25 PM	48.5	46.3	03:20 PM - 03:25 PM	48.5	46.3
10:05 AM - 10:10 AM	51.2	49.4	12:45 PM - 12:50 PM	46.7	45.4	03:25 PM - 03:30 PM	49.4	46.9	03:25 PM - 03:30 PM	49.4	46.9
10:10 AM - 10:15 AM	50.4	49.1	12:50 PM - 12:55 PM	47.2	45.9	03:30 PM - 03:35 PM	48.6	47.2	03:30 PM - 03:35 PM	48.6	47.2
10:15 AM - 10:20 AM	50.4	48.6	12:55 PM - 01:00 PM	47.0	45.6	03:35 PM - 03:40 PM	50.8	46.7	03:35 PM - 03:40 PM	50.8	46.7
10:20 AM - 10:25 AM	49.8	47.6	01:00 PM - 01:05 PM	47.2	46.0	03:40 PM - 03:45 PM	48.5	46.6	03:40 PM - 03:45 PM	48.5	46.6
10:25 AM - 10:30 AM	52.3	48.2	01:05 PM - 01:10 PM	47.6	45.1	03:45 PM - 03:50 PM	48.0	45.9	03:45 PM - 03:50 PM	48.0	45.9
10:30 AM - 10:35 AM	52.3	49.1	01:10 PM - 01:15 PM	48.3	45.9	03:50 PM - 03:55 PM	47.5	46.0	03:50 PM - 03:55 PM	47.5	46.0
10:35 AM - 10:40 AM	50.7	48.6	01:15 PM - 01:20 PM	47.8	45.8	03:55 PM - 04:00 PM	49.0	45.9	03:55 PM - 04:00 PM	49.0	45.9
10:40 AM - 10:45 AM	49.1	47.6	01:20 PM - 01:25 PM	46.0	44.6	04:00 PM - 04:05 PM	47.6	45.6	04:00 PM - 04:05 PM	47.6	45.6
10:45 AM - 10:50 AM	48.9	47.0	01:25 PM - 01:30 PM	48.2	46.1	04:05 PM - 04:10 PM	49.6	46.9	04:05 PM - 04:10 PM	49.6	46.9
10:50 AM - 10:55 AM	51.3	48.2	01:30 PM - 01:35 PM	48.0	45.5	04:10 PM - 04:15 PM	49.3	47.4	04:10 PM - 04:15 PM	49.3	47.4
10:55 AM - 11:00 AM	50.2	47.8	01:35 PM - 01:40 PM	47.9	45.8	04:15 PM - 04:20 PM	48.4	47.0	04:15 PM - 04:20 PM	48.4	47.0
11:00 AM - 11:05 AM	49.0	47.7	01:40 PM - 01:45 PM	48.6	46.2	04:20 PM - 04:25 PM	50.3	47.7	04:20 PM - 04:25 PM	50.3	47.7
11:05 AM - 11:10 AM	48.9	47.4	01:45 PM - 01:50 PM	48.3	46.3	04:25 PM - 04:30 PM	50.7	47.8	04:25 PM - 04:30 PM	50.7	47.8
11:10 AM - 11:15 AM	49.2	47.1	01:50 PM - 01:55 PM	47.9	46.2	04:30 PM - 04:35 PM	49.1	47.5	04:30 PM - 04:35 PM	49.1	47.5
11:15 AM - 11:20 AM	50.9	47.1	01:55 PM - 02:00 PM	48.6	45.8	04:35 PM - 04:40 PM	48.7	46.9	04:35 PM - 04:40 PM	48.7	46.9
11:20 AM - 11:25 AM	49.7	46.9	02:00 PM - 02:05 PM	48.5	46.0	04:40 PM - 04:45 PM	50.4	47.9	04:40 PM - 04:45 PM	50.4	47.9
11:25 AM - 11:30 AM	49.1	47.0	02:05 PM - 02:10 PM	47.4	45.8	04:45 PM - 04:50 PM	50.2	47.7	04:45 PM - 04:50 PM	50.2	47.7
11:30 AM - 11:35 AM	49.8	47.2	02:10 PM - 02:15 PM	47.6	45.8	04:50 PM - 04:55 PM	49.7	47.8	04:50 PM - 04:55 PM	49.7	47.8
11:35 AM - 11:40 AM	49.0	46.7	02:15 PM - 02:20 PM	46.8	45.3	04:55 PM - 05:00 PM	50.7	48.6	04:55 PM - 05:00 PM	50.7	48.6
11:40 AM - 11:45 AM	49.5	47.3	02:20 PM - 02:25 PM	48.0	45.7	05:00 PM - 05:05 PM	50.4	48.3	05:00 PM - 05:05 PM	50.4	48.3
11:45 AM - 11:50 AM	49.5	47.5	02:25 PM - 02:30 PM	48.4	46.4	05:05 PM - 05:10 PM	50.2	48.5	05:05 PM - 05:10 PM	50.2	48.5
11:50 AM - 11:55 AM	48.8	46.4	02:30 PM - 02:35 PM	49.9	47.1	05:10 PM - 05:15 PM	51.2	48.9	05:10 PM - 05:15 PM	51.2	48.9
11:55 AM - 12:00 PM	48.4	47.1	02:35 PM - 02:40 PM	49.0	46.5	05:15 PM - 05:20 PM	53.3	51.3	05:15 PM - 05:20 PM	53.3	51.3
12:00 PM - 12:05 PM	50.3	46.5	02:40 PM - 02:45 PM	49.4	47.0	05:20 PM - 05:25 PM	53.2	51.1	05:20 PM - 05:25 PM	53.2	5

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Approved by \_\_\_\_\_

Sarayuth Jittranont  
Assistant General Manager

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## Highly Significant Findings

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**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23124645**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853645-1 C8

Page 2 of 3

**Sample Number** : 23124645-12  
**Parameter** : Noise Level (Leq 5 min)  
**Location** : ฟาร์มกัญชาบ้านนาโคก (ฟาร์มกัญชา) (GPS 47P 0672338, 1576199)  
**Measurement Date** : Nov 24 - Nov 25, 2023  
**Measurement by** : Thanarat Anake  
**Sound Level meter** : Serial No. 01022262

Nov 24, 2023	Leq dB(A)	L90 dB(A)	Nov 24, 2023	Leq dB(A)	L90 dB(A)
Time			Time		
06:00 PM - 06:05 PM	52.4	50.5	08:40 PM - 08:45 PM	60.8	59.9
06:05 PM - 06:10 PM	53.2	51.2	08:45 PM - 08:50 PM	60.9	60.1
06:10 PM - 06:15 PM	53.3	51.6	08:50 PM - 08:55 PM	61.0	60.2
06:15 PM - 06:20 PM	54.2	52.4	08:55 PM - 09:00 PM	61.3	60.1
06:20 PM - 06:25 PM	55.2	53.6	09:00 PM - 09:05 PM	61.7	60.9
06:25 PM - 06:30 PM	55.9	53.6	09:05 PM - 09:10 PM	61.9	61.1
06:30 PM - 06:35 PM	54.8	53.3	09:10 PM - 09:15 PM	61.0	59.9
06:35 PM - 06:40 PM	61.4	54.6	09:15 PM - 09:20 PM	60.8	59.8
06:40 PM - 06:45 PM	58.2	56.3	09:20 PM - 09:25 PM	60.9	59.8
06:45 PM - 06:50 PM	59.2	57.5	09:25 PM - 09:30 PM	61.0	60.0
06:50 PM - 06:55 PM	59.8	58.0	09:30 PM - 09:35 PM	60.9	59.9
06:55 PM - 07:00 PM	61.9	58.7	09:35 PM - 09:40 PM	60.8	59.9
07:00 PM - 07:05 PM	59.6	59.0	09:40 PM - 09:45 PM	60.7	59.6
07:05 PM - 07:10 PM	60.6	59.4	09:45 PM - 09:50 PM	61.1	60.2
07:10 PM - 07:15 PM	61.4	59.8	09:50 PM - 09:55 PM	60.7	59.9
07:15 PM - 07:20 PM	65.7	61.0	09:55 PM - 10:00 PM	61.1	60.2
07:20 PM - 07:25 PM	60.7	59.5	10:00 PM - 10:05 PM	63.5	60.5
07:25 PM - 07:30 PM	62.7	59.4	10:05 PM - 10:10 PM	60.8	59.9
07:30 PM - 07:35 PM	63.4	60.3	10:10 PM - 10:15 PM	60.9	60.0
07:35 PM - 07:40 PM	60.6	59.8	10:15 PM - 10:20 PM	61.1	60.2
07:40 PM - 07:45 PM	60.6	59.8	10:20 PM - 10:25 PM	61.5	60.2
07:45 PM - 07:50 PM	61.2	60.2	10:25 PM - 10:30 PM	60.9	59.5
07:50 PM - 07:55 PM	60.2	59.5	10:30 PM - 10:35 PM	60.2	59.3
07:55 PM - 08:00 PM	60.3	59.6	10:35 PM - 10:40 PM	57.1	55.3
08:00 PM - 08:05 PM	60.8	59.4	10:40 PM - 10:45 PM	56.3	55.7
08:05 PM - 08:10 PM	59.9	59.1	10:45 PM - 10:50 PM	56.5	55.9
08:10 PM - 08:15 PM	59.7	58.8	10:50 PM - 10:55 PM	57.1	56.2
08:15 PM - 08:20 PM	59.7	58.8	10:55 PM - 11:00 PM	57.4	56.3
08:20 PM - 08:25 PM	59.9	59.0	11:00 PM - 11:05 PM	56.3	55.1
08:25 PM - 08:30 PM	61.3	60.4	11:05 PM - 11:10 PM	57.7	56.8
08:30 PM - 08:35 PM	61.4	60.7	11:10 PM - 11:15 PM	58.6	58.0
08:35 PM - 08:40 PM	61.2	60.3	11:15 PM - 11:20 PM	59.3	57.5

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Approved by

Sariyuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23124645**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853645-1 C8

Page 3 of 3

**Sample Number** : 23124645-12  
**Parameter** : Noise Level (Leq 5 min)  
**Location** : ฟาร์มกัญชาบ้านนาโคก (ฟาร์มกัญชา) (GPS 47P 0672338, 1576199)  
**Measurement Date** : Nov 24 - Nov 25, 2023  
**Measurement by** : Thanarat Anake  
**Sound Level meter** : Serial No. 01022262

Nov 25, 2023	Leq dB(A)	L90 dB(A)	Nov 25, 2023	Leq dB(A)	L90 dB(A)
Time			Time		
02:00 AM - 02:05 AM	57.6	54.5	04:40 AM - 04:45 AM	57.4	48.4
02:05 AM - 02:10 AM	58.3	57.0	04:45 AM - 04:50 AM	56.7	49.4
02:10 AM - 02:15 AM	58.4	57.2	04:50 AM - 04:55 AM	59.0	49.9
02:15 AM - 02:20 AM	57.9	55.4	04:55 AM - 05:00 AM	59.3	50.7
02:20 AM - 02:25 AM	58.4	57.1	05:00 AM - 05:05 AM	59.1	49.7
02:25 AM - 02:30 AM	58.5	57.3	05:05 AM - 05:10 AM	58.1	49.5
02:30 AM - 02:35 AM	58.5	57.2	05:10 AM - 05:15 AM	58.0	50.5
02:35 AM - 02:40 AM	58.4	57.2	05:15 AM - 05:20 AM	58.2	50.7
02:40 AM - 02:45 AM	58.2	56.9	05:20 AM - 05:25 AM	55.4	47.7
02:45 AM - 02:50 AM	58.3	57.0	05:25 AM - 05:30 AM	60.4	50.6
02:50 AM - 02:55 AM	58.5	57.3	05:30 AM - 05:35 AM	56.5	49.7
02:55 AM - 03:00 AM	58.3	57.1	05:35 AM - 05:40 AM	56.9	48.5
03:00 AM - 03:05 AM	58.4	57.1	05:40 AM - 05:45 AM	56.0	49.4
03:05 AM - 03:10 AM	57.8	55.0	05:45 AM - 05:50 AM	59.7	54.5
03:10 AM - 03:15 AM	58.4	56.9	05:50 AM - 05:55 AM	56.7	53.1
03:15 AM - 03:20 AM	58.2	56.9	05:55 AM - 06:00 AM	61.1	54.8
03:20 AM - 03:25 AM	58.2	56.8	06:00 AM - 06:05 AM	59.6	56.2
03:25 AM - 03:30 AM	58.2	56.9	06:05 AM - 06:10 AM	60.4	55.6
03:30 AM - 03:35 AM	57.9	56.6	06:10 AM - 06:15 AM	60.1	57.8
03:35 AM - 03:40 AM	57.8	55.0	06:15 AM - 06:20 AM	58.7	54.2
03:40 AM - 03:45 AM	58.7	57.5	06:20 AM - 06:25 AM	58.2	46.9
03:45 AM - 03:50 AM	58.4	57.0	06:25 AM - 06:30 AM	61.8	48.2
03:50 AM - 03:55 AM	57.4	56.2	06:30 AM - 06:35 AM	57.9	47.5
03:55 AM - 04:00 AM	57.9	56.3	06:35 AM - 06:40 AM	59.0	48.1
04:00 AM - 04:05 AM	57.7	55.0	06:40 AM - 06:45 AM	57.4	47.7
04:05 AM - 04:10 AM	55.1	53.9	06:45 AM - 06:50 AM	61.4	49.5
04:10 AM - 04:15 AM	55.9	48.5	06:50 AM - 06:55 AM	61.2	48.3
04:15 AM - 04:20 AM	58.2	46.3	06:55 AM - 07:00 AM	58.8	47.4
04:20 AM - 04:25 AM	58.8	47.9	07:00 AM - 07:05 AM	59.0	49.0
04:25 AM - 04:30 AM	57.4	46.9	07:05 AM - 07:10 AM	59.5	45.5
04:30 AM - 04:35 AM	57.4	46.7	07:10 AM - 07:15 AM	53.8	52.8
04:35 AM - 04:40 AM	59.6	48.7	07:15 AM - 07:20 AM	54.5	52.7

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Approved by

Sariyuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23124645**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853646-1 C8

## Analysis / Test Report

Page 1 of 2

**Sample Number** 23124645-13  
**Parameter** Noise Level (Leq 5 min)  
**Location** ทุ่งพริกพันไร่/ทุ่งพริกพันไร่ (GPS 47P 0672338, 1576199)  
**Measurement Date** Nov 25 - Nov 26, 2023  
**Measurement by** Thanat Anake  
**Sound Level meter** Serial No. 01022262

Nov 25, 2023 Time	Leq dB(A)	Nov 25, 2023 Time	Leq dB(A)	Nov 25, 2023 Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM	50.8	12:40 PM - 12:45 PM	49.3	03:20 PM - 03:25 PM	50.4	48.5
10:05 AM - 10:10 AM	49.6	12:45 PM - 12:50 PM	51.6	03:25 PM - 03:30 PM	50.5	49.2
10:10 AM - 10:15 AM	49.9	12:50 PM - 12:55 PM	48.7	03:30 PM - 03:35 PM	55.0	48.8
10:15 AM - 10:20 AM	49.1	12:55 PM - 01:00 PM	49.0	03:35 PM - 03:40 PM	66.2	48.9
10:20 AM - 10:25 AM	51.7	01:00 PM - 01:05 PM	48.8	03:40 PM - 03:45 PM	56.1	48.9
10:25 AM - 10:30 AM	51.6	01:05 PM - 01:10 PM	48.1	03:45 PM - 03:50 PM	50.4	49.3
10:30 AM - 10:35 AM	51.1	01:10 PM - 01:15 PM	48.6	03:50 PM - 03:55 PM	50.4	48.6
10:35 AM - 10:40 AM	51.4	01:15 PM - 01:20 PM	49.1	03:55 PM - 04:00 PM	51.0	48.9
10:40 AM - 10:45 AM	51.3	01:20 PM - 01:25 PM	49.3	04:00 PM - 04:05 PM	50.2	49.0
10:45 AM - 10:50 AM	50.8	01:25 PM - 01:30 PM	50.6	04:05 PM - 04:10 PM	50.8	49.1
10:50 AM - 10:55 AM	49.4	01:30 PM - 01:35 PM	49.7	04:10 PM - 04:15 PM	52.3	49.3
10:55 AM - 11:00 AM	49.3	01:35 PM - 01:40 PM	49.6	04:15 PM - 04:20 PM	66.5	49.6
11:00 AM - 11:05 AM	50.8	01:40 PM - 01:45 PM	50.1	04:20 PM - 04:25 PM	50.4	48.5
11:05 AM - 11:10 AM	51.0	01:45 PM - 01:50 PM	49.4	04:25 PM - 04:30 PM	53.1	49.3
11:10 AM - 11:15 AM	49.4	01:50 PM - 01:55 PM	49.5	04:30 PM - 04:35 PM	54.1	49.0
11:15 AM - 11:20 AM	49.1	01:55 PM - 02:00 PM	52.7	04:35 PM - 04:40 PM	51.3	49.4
11:20 AM - 11:25 AM	48.9	02:00 PM - 02:05 PM	50.8	04:40 PM - 04:45 PM	50.5	49.2
11:25 AM - 11:30 AM	48.5	02:05 PM - 02:10 PM	55.8	04:45 PM - 04:50 PM	50.2	49.3
11:30 AM - 11:35 AM	49.2	02:10 PM - 02:15 PM	52.2	04:50 PM - 04:55 PM	53.3	49.7
11:35 AM - 11:40 AM	49.7	02:15 PM - 02:20 PM	49.9	04:55 PM - 05:00 PM	51.1	49.4
11:40 AM - 11:45 AM	48.9	02:20 PM - 02:25 PM	55.3	05:00 PM - 05:05 PM	53.3	50.4
11:45 AM - 11:50 AM	50.2	02:25 PM - 02:30 PM	53.2	05:05 PM - 05:10 PM	55.6	53.4
11:50 AM - 11:55 AM	49.7	02:30 PM - 02:35 PM	49.3	05:10 PM - 05:15 PM	54.8	52.3
11:55 AM - 12:00 PM	49.1	02:35 PM - 02:40 PM	50.1	05:15 PM - 05:20 PM	57.1	51.4
12:00 PM - 12:05 PM	49.6	02:40 PM - 02:45 PM	51.8	05:20 PM - 05:25 PM	58.1	53.5
12:05 PM - 12:10 PM	49.4	02:45 PM - 02:50 PM	49.6	05:25 PM - 05:30 PM	57.5	52.6
12:10 PM - 12:15 PM	48.7	02:50 PM - 02:55 PM	49.1	05:30 PM - 05:35 PM	52.1	50.2
12:15 PM - 12:20 PM	49.3	02:55 PM - 03:00 PM	49.4	05:35 PM - 05:40 PM	52.9	50.7
12:20 PM - 12:25 PM	48.6	03:00 PM - 03:05 PM	50.0	05:40 PM - 05:45 PM	51.9	50.4
12:25 PM - 12:30 PM	48.8	03:05 PM - 03:10 PM	51.0	05:45 PM - 05:50 PM	52.1	50.6
12:30 PM - 12:35 PM	47.9	03:10 PM - 03:15 PM	51.0	05:50 PM - 05:55 PM	53.1	51.3
12:35 PM - 12:40 PM	49.4	03:15 PM - 03:20 PM	51.0	05:55 PM - 06:00 PM	53.6	52.0

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Approved by

Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

**Lot ID: 23124645**  
Date Received :Nov 29, 2023  
Date Reported :Dec 07, 2023  
Report Number : 2853646-1 C8

## Analysis / Test Report

Page 2 of 3

**Sample Number** 23124645-13  
**Parameter** Noise Level (Leq 5 min)  
**Location** ทุ่งพริกพันไร่/ทุ่งพริกพันไร่ (GPS 47P 0672338, 1576199)  
**Measurement Date** Nov 25 - Nov 26, 2023  
**Measurement by** Thanat Anake  
**Sound Level meter** Serial No. 01022262

Nov 25, 2023 Time	Leq dB(A)	Nov 25, 2023 Time	Leq dB(A)	Nov 25 - Nov 26, 2023 Time	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	54.6	06:40 PM - 06:45 PM	59.5	11:20 PM - 11:25 PM	56.0	52.8
06:05 PM - 06:10 PM	54.9	06:45 PM - 06:50 PM	59.0	11:25 PM - 11:30 PM	54.0	52.5
06:10 PM - 06:15 PM	57.6	06:50 PM - 06:55 PM	57.7	11:30 PM - 11:35 PM	53.9	51.8
06:15 PM - 06:20 PM	59.8	06:55 PM - 07:00 PM	60.6	11:35 PM - 11:40 PM	55.1	51.9
06:20 PM - 06:25 PM	56.2	07:00 PM - 07:05 PM	61.9	11:40 PM - 11:45 PM	51.8	50.9
06:25 PM - 06:30 PM	61.0	07:05 PM - 07:10 PM	61.1	11:45 PM - 11:50 PM	51.8	50.6
06:30 PM - 06:35 PM	61.7	07:10 PM - 07:15 PM	60.3	11:50 PM - 11:55 PM	51.6	50.6
06:35 PM - 06:40 PM	58.2	07:15 PM - 07:20 PM	58.1	11:55 PM - 12:00 AM	52.2	50.9
06:40 PM - 06:45 PM	59.0	07:20 PM - 07:25 PM	58.6	12:00 AM - 12:05 AM	52.3	51.0
06:45 PM - 06:50 PM	59.4	07:25 PM - 07:30 PM	62.2	12:05 AM - 12:10 AM	52.0	50.8
06:50 PM - 06:55 PM	57.2	07:30 PM - 07:35 PM	58.9	12:10 AM - 12:15 AM	51.8	50.2
06:55 PM - 07:00 PM	62.0	07:35 PM - 07:40 PM	58.6	12:15 AM - 12:20 AM	51.2	50.1
07:00 PM - 07:05 PM	60.4	07:40 PM - 07:45 PM	60.0	12:20 AM - 12:25 AM	51.5	49.9
07:05 PM - 07:10 PM	60.3	07:45 PM - 07:50 PM	59.2	12:25 AM - 12:30 AM	51.0	50.0
07:10 PM - 07:15 PM	61.2	07:50 PM - 07:55 PM	60.0	12:30 AM - 12:35 AM	51.7	49.9
07:15 PM - 07:20 PM	61.1	07:55 PM - 10:00 PM	55.8	12:35 AM - 12:40 AM	56.9	51.4
07:20 PM - 07:25 PM	60.9	10:00 PM - 10:05 PM	53.1	12:40 AM - 12:45 AM	61.4	56.4
07:25 PM - 07:30 PM	60.3	10:05 PM - 10:10 PM	55.1	12:45 AM - 12:50 AM	56.8	53.0
07:30 PM - 07:35 PM	60.8	10:10 PM - 10:15 PM	57.4	12:50 AM - 12:55 AM	56.5	55.3
07:35 PM - 07:40 PM	60.7	10:15 PM - 10:20 PM	58.2	12:55 AM - 01:00 AM	56.4	55.3
07:40 PM - 07:45 PM	60.9	10:20 PM - 10:25 PM	58.2	01:00 AM - 01:05 AM	58.0	55.9
07:45 PM - 07:50 PM	60.6	10:25 PM - 10:30 PM	58.2	01:05 AM - 01:10 AM	58.3	56.5
07:50 PM - 07:55 PM	60.6	10:30 PM - 10:35 PM	58.3	01:10 AM - 01:15 AM	57.6	56.1
07:55 PM - 08:00 PM	60.6	10:35 PM - 10:40 PM	59.3	01:15 AM - 01:20 AM	58.4	57.0
08:00 PM - 08:05 PM	61.8	10:40 PM - 10:45 PM	59.3	01:20 AM - 01:25 AM	58.4	56.9
08:05 PM - 08:10 PM	61.3	10:45 PM - 10:50 PM	59.5	01:25 AM - 01:30 AM	58.4	56.9
08:10 PM - 08:15 PM	60.5	10:50 PM - 10:55 PM	58.5	01:30 AM - 01:35 AM	58.2	56.6
08:15 PM - 08:20 PM	60.2	10:55 PM - 11:00 PM	57.6	01:35 AM - 01:40 AM	57.8	56.3
08:20 PM - 08:25 PM	60.8	11:00 PM - 11:05 PM	58.2	01:40 AM - 01:45 AM	58.2	56.9
08:25 PM - 08:30 PM	59.9	11:05 PM - 11:10 PM	57.9	01:45 AM - 01:50 AM	58.2	56.9
08:30 PM - 08:35 PM	60.2	11:10 PM - 11:15 PM	57.9	01:50 AM - 01:55 AM	58.1	56.6
08:35 PM - 08:40 PM	59.6	11:15 PM - 11:20 PM	58.1	01:55 AM - 02:00 AM	57.6	55.2

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Approved by

Sarayuth Jitranont  
Assistant General Manager





**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23124645**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853647-1 C8

Page 2 of 3

Sample Number		23124645-14	
Parameter		Noise Level (Leq 5 min)	
Location		พื้นที่ทางหลวงหมายเลข 306 กิโลเมตรที่ 15+500	
Measurement Date		Nov 26 - Nov 27, 2023	
Measurement by		Thanarat Anake	
Sound Level meter		Serial No. 01022262	
Nov 26, 2023	Nov 26, 2023	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	08:40 PM - 08:45 PM	50.4	48.2
06:05 PM - 06:10 PM	08:45 PM - 08:50 PM	51.2	49.6
06:10 PM - 06:15 PM	08:50 PM - 08:55 PM	51.0	49.6
06:15 PM - 06:20 PM	08:55 PM - 09:00 PM	51.8	50.5
06:20 PM - 06:25 PM	09:00 PM - 09:05 PM	56.6	53.0
06:25 PM - 06:30 PM	09:05 PM - 09:10 PM	56.8	54.4
06:30 PM - 06:35 PM	09:10 PM - 09:15 PM	57.7	58.8
06:35 PM - 06:40 PM	09:15 PM - 09:20 PM	57.5	58.4
06:40 PM - 06:45 PM	09:20 PM - 09:25 PM	55.3	54.3
06:45 PM - 06:50 PM	09:25 PM - 09:30 PM	62.8	57.2
06:50 PM - 06:55 PM	09:30 PM - 09:35 PM	63.0	60.9
06:55 PM - 07:00 PM	09:35 PM - 09:40 PM	62.3	61.3
07:00 PM - 07:05 PM	09:40 PM - 09:45 PM	62.2	61.0
07:05 PM - 07:10 PM	09:45 PM - 09:50 PM	63.3	61.4
07:10 PM - 07:15 PM	09:50 PM - 09:55 PM	64.1	62.1
07:15 PM - 07:20 PM	09:55 PM - 10:00 PM	64.0	61.5
07:20 PM - 07:25 PM	10:00 PM - 10:05 PM	61.6	60.5
07:25 PM - 07:30 PM	10:05 PM - 10:10 PM	62.3	60.9
07:30 PM - 07:35 PM	10:10 PM - 10:15 PM	62.2	59.7
07:35 PM - 07:40 PM	10:15 PM - 10:20 PM	61.9	59.7
07:40 PM - 07:45 PM	10:20 PM - 10:25 PM	61.8	60.1
07:45 PM - 07:50 PM	10:25 PM - 10:30 PM	61.1	58.1
07:50 PM - 07:55 PM	10:30 PM - 10:35 PM	61.6	59.8
07:55 PM - 08:00 PM	10:35 PM - 10:40 PM	61.6	60.6
08:00 PM - 08:05 PM	10:40 PM - 10:45 PM	61.4	59.7
08:05 PM - 08:10 PM	10:45 PM - 10:50 PM	61.5	59.7
08:10 PM - 08:15 PM	10:50 PM - 10:55 PM	61.7	58.8
08:15 PM - 08:20 PM	10:55 PM - 11:00 PM	61.8	59.0
08:20 PM - 08:25 PM	11:00 PM - 11:05 PM	61.7	59.1
08:25 PM - 08:30 PM	11:05 PM - 11:10 PM	61.6	59.7
08:30 PM - 08:35 PM	11:10 PM - 11:15 PM	59.3	59.3
08:35 PM - 08:40 PM	11:15 PM - 11:20 PM	58.9	58.9
		61.2	53.1

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Sarayuth Jitranont  
Assistant General Manager



**Client** : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O** : 4210802119  
**Project Name** : Monitoring EIA  
**Project Location** : GBL

## Analysis / Test Report

**Lot ID: 23124645**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2853647-1 C8

Page 3 of 3

Sample Number		23124645-14	
Parameter		Noise Level (Leq 5 min)	
Location		พื้นที่ทางหลวงหมายเลข 306 กิโลเมตรที่ 15+500	
Measurement Date		Nov 26 - Nov 27, 2023	
Measurement by		Thanarat Anake	
Sound Level meter		Serial No. 01022262	
Nov 27, 2023	Nov 27, 2023	Leq dB(A)	L90 dB(A)
02:00 AM - 02:05 AM	04:40 AM - 04:45 AM	54.3	51.9
02:05 AM - 02:10 AM	04:45 AM - 04:50 AM	53.0	51.5
02:10 AM - 02:15 AM	04:50 AM - 04:55 AM	51.8	51.1
02:15 AM - 02:20 AM	04:55 AM - 05:00 AM	52.2	51.2
02:20 AM - 02:25 AM	05:00 AM - 05:05 AM	52.4	50.9
02:25 AM - 02:30 AM	05:05 AM - 05:10 AM	52.3	50.6
02:30 AM - 02:35 AM	05:10 AM - 05:15 AM	51.3	50.1
02:35 AM - 02:40 AM	05:15 AM - 05:20 AM	53.3	50.8
02:40 AM - 02:45 AM	05:20 AM - 05:25 AM	52.7	50.6
02:45 AM - 02:50 AM	05:25 AM - 05:30 AM	52.5	50.2
02:50 AM - 02:55 AM	05:30 AM - 05:35 AM	53.2	51.0
02:55 AM - 03:00 AM	05:35 AM - 05:40 AM	53.6	51.2
03:00 AM - 03:05 AM	05:40 AM - 05:45 AM	52.5	51.3
03:05 AM - 03:10 AM	05:45 AM - 05:50 AM	52.0	51.0
03:10 AM - 03:15 AM	05:50 AM - 05:55 AM	52.1	51.0
03:15 AM - 03:20 AM	05:55 AM - 06:00 AM	53.8	52.0
03:20 AM - 03:25 AM	06:00 AM - 06:05 AM	52.3	51.3
03:25 AM - 03:30 AM	06:05 AM - 06:10 AM	52.0	51.1
03:30 AM - 03:35 AM	06:10 AM - 06:15 AM	52.0	50.9
03:35 AM - 03:40 AM	06:15 AM - 06:20 AM	51.7	50.7
03:40 AM - 03:45 AM	06:20 AM - 06:25 AM	52.4	51.1
03:45 AM - 03:50 AM	06:25 AM - 06:30 AM	52.7	51.2
03:50 AM - 03:55 AM	06:30 AM - 06:35 AM	52.1	51.0
03:55 AM - 04:00 AM	06:35 AM - 06:40 AM	51.7	51.0
04:00 AM - 04:05 AM	06:40 AM - 06:45 AM	52.1	51.3
04:05 AM - 04:10 AM	06:45 AM - 06:50 AM	53.1	51.6
04:10 AM - 04:15 AM	06:50 AM - 06:55 AM	54.3	52.2
04:15 AM - 04:20 AM	06:55 AM - 07:00 AM	53.3	51.9
04:20 AM - 04:25 AM	07:00 AM - 07:05 AM	53.6	52.5
04:25 AM - 04:30 AM	07:05 AM - 07:10 AM	53.8	52.4
04:30 AM - 04:35 AM	07:10 AM - 07:15 AM	53.3	52.4
04:35 AM - 04:40 AM	07:15 AM - 07:20 AM	53.6	52.5

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

Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870012-1

Page 1 of 1

Sample Number 23131969-1

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Cooling Tower

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	81.0	91.5	80.4
10:00 AM - 11:00 AM	81.1	91.1	80.6
11:00 AM - 12:00 PM	81.3	90.7	80.4
12:00 PM - 01:00 PM	81.5	91.3	81.1
01:00 PM - 02:00 PM	81.5	90.9	81.1
02:00 PM - 03:00 PM	81.4	91.0	81.0
03:00 PM - 04:00 PM	81.3	90.2	80.9
04:00 PM - 05:00 PM	81.4	90.5	81.0

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง

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81.3

91.5

140

81.0

91.1

90.7

81.3

81.5

81.0

81.1

81.0

80.9

81.0

Technical Management

Orawan R.

Orawan Rakying

Scientist (3)

Approved by

Supot Salameh

Section Head

Supot S.

Technical Management

Orawan R.

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870013-1

Page 1 of 1

Sample Number 23131969-2

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Cooling Tower

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	81.7	90.8	81.3
06:00 PM - 07:00 PM	81.8	90.6	81.6
07:00 PM - 08:00 PM	81.9	91.0	81.6
08:00 PM - 09:00 PM	81.9	91.1	81.6
09:00 PM - 10:00 PM	81.8	91.1	81.5
10:00 PM - 11:00 PM	81.8	91.3	81.5
11:00 PM - 12:00 AM	81.2	91.2	80.6
12:00 AM - 01:00 AM	81.0	91.3	80.6

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง

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81.6

91.3

140

81.3

81.6

91.0

91.1

91.3

81.2

81.2

81.2

81.2

81.2





## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870014-1

Page 1 of 1

Sample Number 23131969-3

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Cooling Tower

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	80.9	91.3	80.6
02:00 AM - 03:00 AM	81.0	90.9	80.7
03:00 AM - 04:00 AM	81.0	91.1	80.7
04:00 AM - 05:00 AM	81.1	91.2	80.7
05:00 AM - 06:00 AM	81.1	91.7	80.7
06:00 AM - 07:00 AM	81.0	91.1	80.7
07:00 AM - 08:00 AM	81.0	90.4	80.6
08:00 AM - 09:00 AM	81.0	90.6	80.5

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A)) 91.7

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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Technical Management

Orawan R.

Orawan Rakyong

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870015-1

Page 1 of 1

Sample Number 23131969-4

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Cooling Tower

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	80.9	90.5	80.5
10:00 AM - 11:00 AM	80.8	90.3	80.3
11:00 AM - 12:00 PM	80.8	90.3	80.2
12:00 PM - 01:00 PM	81.4	90.3	81.0
01:00 PM - 02:00 PM	81.3	90.6	80.9
02:00 PM - 03:00 PM	81.4	90.9	81.0
03:00 PM - 04:00 PM	81.5	90.6	81.2
04:00 PM - 05:00 PM	81.6	90.9	81.2

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A)) 90.9

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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Technical Management

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131969**  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2870016-1

Page 1 of 1

Sample Number	23131969-5			
Parameter	Noise (Leq 8 hrs.)			
Location	พื้นที่ Cooling Tower			
Measurement Date	Dec 13, 2023			
Measurement by	Phongsiri Somkaew			
	Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
	05:00 PM - 06:00 PM	81.7	91.1	81.4
	06:00 PM - 07:00 PM	81.7	91.0	81.4
	07:00 PM - 08:00 PM	81.7	90.7	81.4
	08:00 PM - 09:00 PM	81.8	91.0	81.5
	09:00 PM - 10:00 PM	81.9	91.1	81.6
	10:00 PM - 11:00 PM	81.9	91.5	81.7
	11:00 PM - 12:00 AM	81.4	91.4	80.8
	12:00 AM - 01:00 AM	81.1	90.2	80.8

*Supt S.*

**Approved by**  
Supot Salameh  
Section Head

*Orawan R.*

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131969**  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2870017-1

Page 1 of 1

Sample Number	23131969-6			
Parameter	Noise (Leq 8 hrs.)			
Location	พื้นที่ Cooling Tower			
Measurement Date	Dec 14, 2023			
Measurement by	Phongsiri Somkaew			
	Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
	01:00 AM - 02:00 AM	81.2	90.5	80.9
	02:00 AM - 03:00 AM	81.2	91.3	80.9
	03:00 AM - 04:00 AM	81.3	91.3	81.0
	04:00 AM - 05:00 AM	81.3	90.7	81.0
	05:00 AM - 06:00 AM	81.4	91.2	81.0
	06:00 AM - 07:00 AM	81.5	91.2	81.2
	07:00 AM - 08:00 AM	81.3	90.9	80.9
	08:00 AM - 09:00 AM	80.7	90.5	79.1

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Orawan Rakyong  
Scientist (3)

*Supt S.*

**Approved by**  
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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870018-1

Page 1 of 1

Sample Number 23131969-7

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Cooling Tower

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	79.7	90.6	79.1
10:00 AM - 11:00 AM	79.8	90.7	79.2
11:00 AM - 12:00 PM	79.6	90.2	78.9
12:00 PM - 01:00 PM	79.9	90.9	79.4
01:00 PM - 02:00 PM	79.9	91.1	79.3
02:00 PM - 03:00 PM	79.9	90.6	79.4
03:00 PM - 04:00 PM	80.1	90.6	79.6
04:00 PM - 05:00 PM	80.0	90.6	79.6

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง

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91.1

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Technical Management

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Orawan Rakyong

Scientist (3)

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870019-1

Page 1 of 1

Sample Number 23131969-8

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Cooling Tower

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	80.2	90.6	79.8
06:00 PM - 07:00 PM	80.3	90.8	80.0
07:00 PM - 08:00 PM	80.4	91.1	80.1
08:00 PM - 09:00 PM	80.5	91.2	80.2
09:00 PM - 10:00 PM	80.6	90.7	80.3
10:00 PM - 11:00 PM	80.6	90.7	80.3
11:00 PM - 12:00 AM	80.3	90.8	79.7
12:00 AM - 01:00 AM	80.3	90.7	79.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง

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80.4

91.2

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Technical Management

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870022-1

Page 1 of 1

Sample Number 23131969-11

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Gas Compressor

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	64.1	67.7	62.8
06:00 PM - 07:00 PM	64.7	70.5	63.6
07:00 PM - 08:00 PM	64.3	66.7	63.6
08:00 PM - 09:00 PM	64.5	66.9	64.0
09:00 PM - 10:00 PM	64.0	68.7	63.4
10:00 PM - 11:00 PM	63.7	67.0	63.2
11:00 PM - 12:00 AM	63.0	67.1	62.2
12:00 AM - 01:00 AM	62.0	64.6	61.6

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดความดังเสียง

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63.9

70.5

140

Technical Management

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Orawan Rakyong

Scientist (3)

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Supot Salameh

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870023-1

Page 1 of 1

Sample Number 23131969-12

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Gas Compressor

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	62.1	64.6	61.6
02:00 AM - 03:00 AM	62.0	64.7	61.5
03:00 AM - 04:00 AM	62.2	65.2	61.6
04:00 AM - 05:00 AM	62.1	65.1	61.8
05:00 AM - 06:00 AM	62.3	64.3	62.0
06:00 AM - 07:00 AM	62.7	65.7	62.1
07:00 AM - 08:00 AM	62.2	69.8	61.7
08:00 AM - 09:00 AM	61.9	69.3	61.4

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดความดังเสียง

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62.2

69.8

140

Technical Management

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870024-1

Page 1 of 1

Sample Number 23131969-13

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Compressor

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.5	72.1	61.1
10:00 AM - 11:00 AM	61.6	67.3	60.7
11:00 AM - 12:00 PM	61.1	80.1	60.5
12:00 PM - 01:00 PM	62.9	70.7	61.6
01:00 PM - 02:00 PM	62.3	68.2	61.6
02:00 PM - 03:00 PM	62.5	67.9	61.8
03:00 PM - 04:00 PM	62.9	69.0	62.3
04:00 PM - 05:00 PM	63.4	68.7	62.7

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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62.3

80.1

140

61.1

60.7

60.5

61.6

61.8

62.3

62.7

Technical Management

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870025-1

Page 1 of 1

Sample Number 23131969-14

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Compressor

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	64.5	68.1	63.2
06:00 PM - 07:00 PM	65.1	67.7	64.0
07:00 PM - 08:00 PM	64.5	68.5	64.0
08:00 PM - 09:00 PM	64.7	67.2	64.1
09:00 PM - 10:00 PM	63.9	66.3	63.3
10:00 PM - 11:00 PM	64.0	66.9	63.4
11:00 PM - 12:00 AM	61.7	65.3	61.1
12:00 AM - 01:00 AM	60.4	62.1	59.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

ในการประกอบกิจการโรงงานเกี่ยวกับสารเคมีอันตราย พ.ศ.๒๕๔๖

63.8

68.5

140

63.2

64.0

64.0

64.1

63.3

63.4

61.1

59.9

Technical Management

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131969**  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2870026-1

Page 1 of 1

<b>Sample Number</b>	23131969-15
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	พื้นที่ Gas Compressor
<b>Measurement Date</b>	Dec 14, 2023
<b>Measurement by</b>	Phongsiri Somkaew
<b>Time</b>	
01:00 AM - 02:00 AM	60.5
02:00 AM - 03:00 AM	64.5
03:00 AM - 04:00 AM	63.3
04:00 AM - 05:00 AM	60.1
05:00 AM - 06:00 AM	60.4
06:00 AM - 07:00 AM	61.0
07:00 AM - 08:00 AM	61.3
08:00 AM - 09:00 AM	60.9
Leq Average 8 hrs. (dB(A))	60.8
Lmax (dB(A))	68.8
Standard (dB(A))	90
Reference Method : Based on ISO1996-1 and 1996-2	
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง ในการประเมินการรังานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖	

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131969**  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2870027-1

Page 1 of 1

<b>Sample Number</b>	23131969-16
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	พื้นที่ Gas Compressor
<b>Measurement Date</b>	Dec 14, 2023
<b>Measurement by</b>	Phongsiri Somkaew
<b>Time</b>	
09:00 AM - 10:00 AM	60.8
10:00 AM - 11:00 AM	60.4
11:00 AM - 12:00 PM	59.9
12:00 PM - 01:00 PM	61.9
01:00 PM - 02:00 PM	61.6
02:00 PM - 03:00 PM	62.4
03:00 PM - 04:00 PM	62.6
04:00 PM - 05:00 PM	64.6
Leq Average 8 hrs. (dB(A))	62.0
Lmax (dB(A))	69.6
Standard (dB(A))	90
Reference Method : Based on ISO1996-1 and 1996-2	
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง ในการประเมินการรังานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖	

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870030-1

Page 1 of 1

Sample Number 23131969-19

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Boiler Feed Pump

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	79.8	80.7	79.6
10:00 AM - 11:00 AM	79.8	80.6	79.6
11:00 AM - 12:00 PM	80.9	83.3	79.9
12:00 PM - 01:00 PM	80.6	85.5	80.1
01:00 PM - 02:00 PM	80.6	81.6	80.4
02:00 PM - 03:00 PM	80.4	80.8	80.2
03:00 PM - 04:00 PM	80.4	80.9	80.3
04:00 PM - 05:00 PM	80.5	85.0	80.4

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870031-1

Page 1 of 1

Sample Number 23131969-20

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Boiler Feed Pump

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	81.6	85.0	80.5
06:00 PM - 07:00 PM	82.1	86.2	80.7
07:00 PM - 08:00 PM	80.5	81.2	80.4
08:00 PM - 09:00 PM	80.7	81.2	80.5
09:00 PM - 10:00 PM	80.8	81.2	80.7
10:00 PM - 11:00 PM	80.8	81.5	80.7
11:00 PM - 12:00 AM	79.8	81.7	78.9
12:00 AM - 01:00 AM	79.4	85.2	79.2

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2870032-1

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 23131969-21

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Boiler Feed Pump

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	79.5	80.1	79.4
02:00 AM - 03:00 AM	79.5	80.4	79.3
03:00 AM - 04:00 AM	79.4	80.0	79.2
04:00 AM - 05:00 AM	79.5	80.6	79.2
05:00 AM - 06:00 AM	80.1	82.2	79.7
06:00 AM - 07:00 AM	79.9	81.8	79.6
07:00 AM - 08:00 AM	79.6	81.3	79.3
08:00 AM - 09:00 AM	79.6	82.0	79.4

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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82.2

140

90

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2870033-1

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 23131969-22

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Boiler Feed Pump

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	79.4	82.5	79.3
10:00 AM - 11:00 AM	79.4	79.9	79.2
11:00 AM - 12:00 PM	79.6	82.1	78.9
12:00 PM - 01:00 PM	80.4	82.9	79.5
01:00 PM - 02:00 PM	80.5	81.2	80.3
02:00 PM - 03:00 PM	80.5	81.2	80.3
03:00 PM - 04:00 PM	80.6	81.1	80.4
04:00 PM - 05:00 PM	80.6	81.6	80.5

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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80.2

82.9

140

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870034-1

Page 1 of 1

Sample Number 23131969-23

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Boiler Feed Pump

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	81.6	85.1	80.4
06:00 PM - 07:00 PM	82.1	86.6	80.9
07:00 PM - 08:00 PM	80.8	81.2	80.7
08:00 PM - 09:00 PM	80.7	81.3	80.6
09:00 PM - 10:00 PM	80.9	81.3	80.8
10:00 PM - 11:00 PM	80.9	81.7	80.8
11:00 PM - 12:00 AM	80.7	86.6	80.0
12:00 AM - 01:00 AM	80.1	80.8	79.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดความดังเสียง

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870035-1

Page 1 of 1

Sample Number 23131969-24

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Boiler Feed Pump

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	80.7	83.3	80.2
02:00 AM - 03:00 AM	81.8	82.6	81.5
03:00 AM - 04:00 AM	81.3	83.7	80.5
04:00 AM - 05:00 AM	80.7	81.7	80.4
05:00 AM - 06:00 AM	80.8	82.0	80.5
06:00 AM - 07:00 AM	81.3	83.3	80.8
07:00 AM - 08:00 AM	81.5	83.2	81.2
08:00 AM - 09:00 AM	81.4	82.5	81.0

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดความดังเสียง

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870036-1

Page 1 of 1

Sample Number 23131969-25

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Boiler Feed Pump

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	81.2	82.1	80.8
10:00 AM - 11:00 AM	81.1	82.0	80.8
11:00 AM - 12:00 PM	80.9	88.3	80.6
12:00 PM - 01:00 PM	80.7	84.7	80.2
01:00 PM - 02:00 PM	80.6	81.3	80.4
02:00 PM - 03:00 PM	80.6	81.1	80.4
03:00 PM - 04:00 PM	80.7	81.6	80.6
04:00 PM - 05:00 PM	80.6	81.3	80.5

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870037-1

Page 1 of 1

Sample Number 23131969-26

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Boiler Feed Pump

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	81.9	86.6	80.6
06:00 PM - 07:00 PM	82.0	85.0	80.7
07:00 PM - 08:00 PM	80.7	81.3	80.5
08:00 PM - 09:00 PM	80.7	81.2	80.6
09:00 PM - 10:00 PM	81.0	81.6	80.7
10:00 PM - 11:00 PM	81.1	81.8	80.9
11:00 PM - 12:00 AM	80.1	83.3	79.5
12:00 AM - 01:00 AM	79.8	80.1	79.6

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

ในการประกอบกิจการโรงงานเกี่ยวกับสารเคมีอันตราย พ.ศ.๒๕๔๖

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870038-1

Page 1 of 1

Sample Number 23131969-27

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Boiler Feed Pump

Measurement Date Dec 15, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	79.7	80.3	79.6
02:00 AM - 03:00 AM	79.6	84.2	79.5
03:00 AM - 04:00 AM	79.5	80.2	79.4
04:00 AM - 05:00 AM	79.8	81.4	79.6
05:00 AM - 06:00 AM	80.0	81.2	79.8
06:00 AM - 07:00 AM	79.9	81.2	79.6
07:00 AM - 08:00 AM	79.7	81.0	79.5
08:00 AM - 09:00 AM	79.6	80.6	79.5

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870039-1

Page 1 of 1

Sample Number 23131969-28

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Gas Turbine 1

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	82.6	83.4	82.3
10:00 AM - 11:00 AM	82.6	83.8	82.4
11:00 AM - 12:00 PM	83.1	87.4	82.5
12:00 PM - 01:00 PM	83.4	89.2	82.8
01:00 PM - 02:00 PM	83.6	84.4	83.3
02:00 PM - 03:00 PM	83.5	84.5	83.2
03:00 PM - 04:00 PM	83.5	84.1	83.3
04:00 PM - 05:00 PM	83.5	84.1	83.3

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870040-1

Page 1 of 1

Sample Number 23131969-29

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 1

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	84.2	87.2	83.3
06:00 PM - 07:00 PM	84.7	88.2	83.5
07:00 PM - 08:00 PM	83.5	84.1	83.3
08:00 PM - 09:00 PM	83.7	84.6	83.4
09:00 PM - 10:00 PM	83.9	84.7	83.6
10:00 PM - 11:00 PM	83.7	84.3	83.5
11:00 PM - 12:00 AM	81.9	84.3	81.0
12:00 AM - 01:00 AM	81.6	86.8	81.4

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870041-1

Page 1 of 1

Sample Number 23131969-30

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 1

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	81.7	82.6	81.5
02:00 AM - 03:00 AM	81.7	82.7	81.5
03:00 AM - 04:00 AM	81.7	82.8	81.4
04:00 AM - 05:00 AM	81.8	83.2	81.5
05:00 AM - 06:00 AM	82.3	84.0	81.9
06:00 AM - 07:00 AM	82.1	84.3	81.8
07:00 AM - 08:00 AM	81.7	82.5	81.4
08:00 AM - 09:00 AM	81.8	82.5	81.7

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870042-1

Page 1 of 1

Sample Number 23131969-31

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 1

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	81.6	82.1	81.5
10:00 AM - 11:00 AM	81.5	82.0	81.4
11:00 AM - 12:00 PM	82.0	87.6	81.4
12:00 PM - 01:00 PM	83.0	86.4	81.9
01:00 PM - 02:00 PM	83.4	84.0	83.2
02:00 PM - 03:00 PM	83.4	84.1	83.2
03:00 PM - 04:00 PM	83.4	84.0	83.3
04:00 PM - 05:00 PM	83.5	84.0	83.3

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A)) 90

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870043-1

Page 1 of 1

Sample Number 23131969-32

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 1

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	84.3	87.5	83.3
06:00 PM - 07:00 PM	84.6	88.8	83.5
07:00 PM - 08:00 PM	83.6	84.2	83.4
08:00 PM - 09:00 PM	83.6	84.2	83.4
09:00 PM - 10:00 PM	83.7	84.4	83.5
10:00 PM - 11:00 PM	83.8	86.5	83.5
11:00 PM - 12:00 AM	83.3	89.8	82.5
12:00 AM - 01:00 AM	82.5	83.1	82.3

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A)) 90

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870044-1

Page 1 of 1

Sample Number 23131969-33

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 1

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	82.5	84.7	82.2
02:00 AM - 03:00 AM	83.0	84.1	82.8
03:00 AM - 04:00 AM	82.7	83.6	82.4
04:00 AM - 05:00 AM	82.8	83.9	82.6
05:00 AM - 06:00 AM	82.9	84.0	82.7
06:00 AM - 07:00 AM	82.9	84.4	82.7
07:00 AM - 08:00 AM	82.9	83.8	82.8
08:00 AM - 09:00 AM	83.0	83.7	82.8

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870045-1

Page 1 of 1

Sample Number 23131969-34

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 1

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	83.0	83.8	82.8
10:00 AM - 11:00 AM	82.9	83.8	82.7
11:00 AM - 12:00 PM	82.9	84.1	82.6
12:00 PM - 01:00 PM	83.5	90.8	82.6
01:00 PM - 02:00 PM	83.4	84.1	83.3
02:00 PM - 03:00 PM	83.5	84.2	83.3
03:00 PM - 04:00 PM	83.5	84.2	83.3
04:00 PM - 05:00 PM	83.4	84.0	83.3

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870046-1

Page 1 of 1

Sample Number 23131969-35

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 1

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	84.5	88.9	83.4
06:00 PM - 07:00 PM	84.7	87.1	83.8
07:00 PM - 08:00 PM	84.6	84.5	83.4
08:00 PM - 09:00 PM	83.8	84.6	83.6
09:00 PM - 10:00 PM	83.9	84.5	83.7
10:00 PM - 11:00 PM	83.8	84.3	83.6
11:00 PM - 12:00 AM	82.1	85.4	81.4
12:00 AM - 01:00 AM	81.8	82.2	81.7

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870047-1

Page 1 of 1

Sample Number 23131969-36

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 1

Measurement Date Dec 15, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	81.9	82.4	81.7
02:00 AM - 03:00 AM	81.8	85.7	81.7
03:00 AM - 04:00 AM	81.7	82.5	81.5
04:00 AM - 05:00 AM	82.0	83.3	81.8
05:00 AM - 06:00 AM	82.2	83.2	82.0
06:00 AM - 07:00 AM	82.1	83.0	81.9
07:00 AM - 08:00 AM	81.8	82.3	81.7
08:00 AM - 09:00 AM	81.7	82.2	81.6

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870048-1

Page 1 of 1

Sample Number 23131969-37

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 2

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	73.0	76.0	72.7
10:00 AM - 11:00 AM	73.0	76.3	72.6
11:00 AM - 12:00 PM	76.1	84.3	72.8
12:00 PM - 01:00 PM	75.6	79.1	74.5
01:00 PM - 02:00 PM	77.1	78.8	76.2
02:00 PM - 03:00 PM	77.4	79.7	76.8
03:00 PM - 04:00 PM	77.2	78.8	76.7
04:00 PM - 05:00 PM	77.9	79.2	77.5

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

ในการประกอบกิจการโรงงานเกี่ยวกับสารเคมีอันตราย พ.ศ.๒๕๔๖

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870049-1

Page 1 of 1

Sample Number 23131969-38

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 2

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	78.9	82.9	77.7
06:00 PM - 07:00 PM	79.1	83.3	77.2
07:00 PM - 08:00 PM	78.0	79.1	77.6
08:00 PM - 09:00 PM	77.5	79.0	76.9
09:00 PM - 10:00 PM	76.9	78.8	76.3
10:00 PM - 11:00 PM	77.2	79.4	76.3
11:00 PM - 12:00 AM	76.2	80.3	75.3
12:00 AM - 01:00 AM	76.1	81.5	75.7

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870050-1

Page 1 of 1

Sample Number 23131969-39

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 2

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	76.2	82.9	75.7
02:00 AM - 03:00 AM	76.1	77.7	75.7
03:00 AM - 04:00 AM	76.2	77.5	75.8
04:00 AM - 05:00 AM	76.1	78.5	75.8
05:00 AM - 06:00 AM	77.0	79.4	76.4
06:00 AM - 07:00 AM	76.5	80.6	75.8
07:00 AM - 08:00 AM	76.1	77.3	75.7
08:00 AM - 09:00 AM	76.2	77.4	75.8

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870051-1

Page 1 of 1

Sample Number 23131969-40

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 2

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	76.2	77.7	75.8
10:00 AM - 11:00 AM	76.1	77.5	75.7
11:00 AM - 12:00 PM	76.1	78.3	75.6
12:00 PM - 01:00 PM	76.6	80.0	74.9
01:00 PM - 02:00 PM	77.2	79.7	76.3
02:00 PM - 03:00 PM	77.6	79.5	77.0
03:00 PM - 04:00 PM	77.7	79.7	77.0
04:00 PM - 05:00 PM	77.4	79.1	76.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870052-1

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 23131969-41

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 2

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	78.9	83.0	77.0
06:00 PM - 07:00 PM	80.0	83.6	77.9
07:00 PM - 08:00 PM	77.6	79.0	77.0
08:00 PM - 09:00 PM	77.3	79.3	76.8
09:00 PM - 10:00 PM	76.4	77.9	76.0
10:00 PM - 11:00 PM	76.5	87.8	76.0
11:00 PM - 12:00 AM	74.3	81.8	73.2
12:00 AM - 01:00 AM	73.7	75.4	73.2

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดความดังเสียง

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## Analysis / Test Report

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P/O : 4210701597

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870053-1

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 23131969-42

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 2

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	73.4	79.9	73.0
02:00 AM - 03:00 AM	73.3	75.5	73.0
03:00 AM - 04:00 AM	73.4	75.6	73.1
04:00 AM - 05:00 AM	73.9	77.7	73.4
05:00 AM - 06:00 AM	74.7	78.1	73.8
06:00 AM - 07:00 AM	74.7	79.1	73.9
07:00 AM - 08:00 AM	73.6	75.0	73.1
08:00 AM - 09:00 AM	73.2	75.0	72.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดความดังเสียง

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## Analysis / Test Report

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P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870054-1

Page 1 of 1

Sample Number 23131969-43

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 2

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	73.5	75.6	73.0
10:00 AM - 11:00 AM	73.3	74.7	73.0
11:00 AM - 12:00 PM	73.3	77.0	72.9
12:00 PM - 01:00 PM	76.2	84.3	74.7
01:00 PM - 02:00 PM	76.9	78.6	76.1
02:00 PM - 03:00 PM	77.6	79.8	77.1
03:00 PM - 04:00 PM	77.9	79.7	77.2
04:00 PM - 05:00 PM	78.3	79.5	77.6

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A)) 84.3

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870055-1

Page 1 of 1

Sample Number 23131969-44

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Gas Turbine 2

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	79.5	83.5	78.0
06:00 PM - 07:00 PM	79.3	83.3	76.8
07:00 PM - 08:00 PM	77.0	79.3	76.1
08:00 PM - 09:00 PM	76.6	78.7	75.9
09:00 PM - 10:00 PM	76.7	78.2	76.2
10:00 PM - 11:00 PM	77.0	78.8	76.5
11:00 PM - 12:00 AM	76.3	85.9	75.3
12:00 AM - 01:00 AM	76.2	77.2	75.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A)) 85.9

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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Technical Management

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Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870056-1

Page 1 of 1

Sample Number 23131969-45

Parameter Noise (Leq 8 hrs.)

Location กิ่งกาส Turbine 2

Measurement Date Dec 15, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	75.9	77.2	75.5
02:00 AM - 03:00 AM	75.7	81.4	75.4
03:00 AM - 04:00 AM	75.7	77.0	75.5
04:00 AM - 05:00 AM	76.1	77.8	75.7
05:00 AM - 06:00 AM	76.9	79.3	76.4
06:00 AM - 07:00 AM	77.0	78.4	76.5
07:00 AM - 08:00 AM	76.1	77.9	75.6
08:00 AM - 09:00 AM	76.6	80.0	74.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A)) 81.4

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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Technical Management

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Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870057-1

Page 1 of 1

Sample Number 23131969-46

Parameter Noise (Leq 8 hrs.)

Location กิ่งกาส Steam Turbine

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	75.4	76.0	75.2
10:00 AM - 11:00 AM	75.3	75.9	75.2
11:00 AM - 12:00 PM	76.0	78.8	75.3
12:00 PM - 01:00 PM	76.0	79.4	75.6
01:00 PM - 02:00 PM	76.0	76.7	75.9
02:00 PM - 03:00 PM	75.9	76.6	75.7
03:00 PM - 04:00 PM	75.9	76.6	75.8
04:00 PM - 05:00 PM	76.0	88.4	75.8

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A)) 88.4

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870058-1

Page 1 of 1

Sample Number 23131969-47

Parameter Noise (Leq 8 hrs.)

Location อ่างน้ำ Steam Turbine

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	77.5	82.4	75.9
06:00 PM - 07:00 PM	78.1	83.1	76.2
07:00 PM - 08:00 PM	76.1	77.0	76.0
08:00 PM - 09:00 PM	76.3	77.0	76.2
09:00 PM - 10:00 PM	76.4	77.2	76.2
10:00 PM - 11:00 PM	76.4	77.0	76.2
11:00 PM - 12:00 AM	75.5	77.6	74.8
12:00 AM - 01:00 AM	75.1	82.5	75.0

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870059-1

Page 1 of 1

Sample Number 23131969-48

Parameter Noise (Leq 8 hrs.)

Location อ่างน้ำ Steam Turbine

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	75.1	75.9	75.0
02:00 AM - 03:00 AM	75.0	77.2	74.4
03:00 AM - 04:00 AM	74.2	75.2	74.0
04:00 AM - 05:00 AM	74.6	76.3	74.2
05:00 AM - 06:00 AM	75.4	77.9	74.9
06:00 AM - 07:00 AM	74.9	78.5	74.3
07:00 AM - 08:00 AM	74.3	75.4	74.0
08:00 AM - 09:00 AM	74.2	82.9	74.0

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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Technical Management

Orawan R.

Orawan Rakyong

Scientist (3)

Approved by

Supot Salameh

Section Head

Supt. S.

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870060-1

Page 1 of 1

Sample Number 23131969-49

Parameter Noise (Leq 8 hrs.)

Location อ่างน้ำ Steam Turbine

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	74.5	83.0	74.0
10:00 AM - 11:00 AM	74.9	75.5	74.8
11:00 AM - 12:00 PM	75.1	77.3	74.6
12:00 PM - 01:00 PM	75.9	78.5	75.1
01:00 PM - 02:00 PM	76.0	76.7	75.8
02:00 PM - 03:00 PM	76.0	76.6	75.8
03:00 PM - 04:00 PM	76.0	76.7	75.8
04:00 PM - 05:00 PM	76.0	78.9	75.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง

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Technical Management

Orawan Rak Yong

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Approved by

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870061-1

Page 1 of 1

Sample Number 23131969-50

Parameter Noise (Leq 8 hrs.)

Location อ่างน้ำ Steam Turbine

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	77.7	82.1	75.9
06:00 PM - 07:00 PM	78.1	83.4	76.2
07:00 PM - 08:00 PM	76.1	76.6	76.0
08:00 PM - 09:00 PM	76.1	76.9	76.0
09:00 PM - 10:00 PM	76.2	77.2	76.1
10:00 PM - 11:00 PM	76.3	77.0	76.2
11:00 PM - 12:00 AM	76.2	80.1	75.5
12:00 AM - 01:00 AM	75.6	76.1	75.4

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง

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Technical Management

Orawan Rak Yong

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Approved by

Supot Salameh

Section Head

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870062-1

Page 1 of 1

Sample Number 23131969-51

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Steam Turbine

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 AM - 02:00 AM	75.1	79.7	74.9
02:00 AM - 03:00 AM	76.2	77.3	76.0
03:00 AM - 04:00 AM	75.8	78.7	75.3
04:00 AM - 05:00 AM	75.6	76.6	75.4
05:00 AM - 06:00 AM	76.0	78.2	75.6
06:00 AM - 07:00 AM	76.0	78.6	75.6
07:00 AM - 08:00 AM	75.9	77.4	75.7
08:00 AM - 09:00 AM	75.8	76.6	75.6

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

ในการประกอบกิจการโรงงานเกี่ยวกับมลพิษทางอากาศในกรุงเทพมหานคร พ.ศ.๒๕๔๖

Technical Management

Orawan Rakyong

Scientist (3)

Approved by

Supot Salameh

Section Head

Orawan R.

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Dec 21, 2023

Report Number: 2870063-1

Page 1 of 1

Sample Number 23131969-52

Parameter Noise (Leq 8 hrs.)

Location บ้านนา Steam Turbine

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	75.6	76.5	75.4
10:00 AM - 11:00 AM	76.2	76.9	76.0
11:00 AM - 12:00 PM	76.1	80.6	75.8
12:00 PM - 01:00 PM	76.0	80.0	75.5
01:00 PM - 02:00 PM	76.1	76.7	76.0
02:00 PM - 03:00 PM	76.0	76.7	75.9
03:00 PM - 04:00 PM	76.1	76.9	76.0
04:00 PM - 05:00 PM	76.0	77.8	75.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ

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Technical Management

Orawan Rakyong

Scientist (3)

Approved by

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Section Head

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131969**  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2870064-1

Page 1 of 1

<b>Sample Number</b>	23131969-53
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	ใกล้ Steam Turbine
<b>Measurement Date</b>	Dec 14, 2023
<b>Measurement by</b>	Phongsiri Somkaew
<b>Time</b>	
05:00 PM - 06:00 PM	77.9
06:00 PM - 07:00 PM	83.3
07:00 PM - 08:00 PM	78.2
08:00 PM - 09:00 PM	76.9
09:00 PM - 10:00 PM	76.8
10:00 PM - 11:00 PM	76.2
11:00 PM - 12:00 AM	77.1
12:00 AM - 01:00 AM	76.3
Leq Average 8 hrs. (dB(A))	75.9
Lmax (dB(A))	83.3
Standard (dB(A))	90
Reference Method : Based on ISO1996-1 and 1996-2	
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษทางเสียงในสถานที่ปฏิบัติงาน พ.ศ.๒๕๔๖	

*Orawan R.*

Orawan Rakyong  
Scientist (3)

Approved by

Supot Salameh  
Section Head

Technical Management

Orawan R.

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131969**  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2870065-1

Page 1 of 1

<b>Sample Number</b>	23131969-54
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	ใกล้ Steam Turbine
<b>Measurement Date</b>	Dec 15, 2023
<b>Measurement by</b>	Phongsiri Somkaew
<b>Time</b>	
01:00 AM - 02:00 AM	75.1
02:00 AM - 03:00 AM	75.6
03:00 AM - 04:00 AM	80.6
04:00 AM - 05:00 AM	74.5
05:00 AM - 06:00 AM	75.9
06:00 AM - 07:00 AM	74.9
07:00 AM - 08:00 AM	76.6
08:00 AM - 09:00 AM	77.4
Leq Average 8 hrs. (dB(A))	74.7
Lmax (dB(A))	80.6
Standard (dB(A))	90
Reference Method : Based on ISO1996-1 and 1996-2	
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษทางเสียงในสถานที่ปฏิบัติงาน พ.ศ.๒๕๔๖	

*Orawan R.*

Orawan Rakyong  
Scientist (3)

Approved by

Supot Salameh  
Section Head

Technical Management

Orawan R.

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
**No.0009**  
**Lot ID: 2370646**  
Date Received : Jul 05, 2023  
Date Reported : Jul 13, 2023  
Report Number : 2688968-1



Page 1 of 1

**Sample Number** 2370646-1  
**Sample Date** Jul 05, 2023 9:22 AM  
**Sample Description** Wastewater  
**Location** นาคท่าพลเมือง 2 ฟัง 3 (ฝั่ง/บริเวณท่ารถในฟัง) 3  
**Date Analysis Commenced** Jul 06, 2023  
**Condition of Sample** Contained in two glass vials, two BOD bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.2	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
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)	Bangkok
Temperature *	Degree C	-	-	32.5	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2628	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
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	Bangkok

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

**Sampling By :** Prapote Wannachoochai โทร 09-00000000-204-47109

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

**Technical Management**  
Siriuk P.  
Section Head  
โทร 09-00000000-204-4720

**Approved by**  
Kanokorn Anek  
Senior Manager  
โทร 09-00000000-204-4-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 2370646**  
Date Received : Jul 05, 2023  
Date Reported : Jul 13, 2023  
Report Number : 2688968-2

Page 1 of 2

**Sample Number** 2370646-1  
**Sample Date** Jul 05, 2023 9:22 AM  
**Sample Description** Wastewater  
**Location** นาคท่าพลเมือง 2 ฟัง 3 (ฝั่ง/บริเวณท่ารถในฟัง) 3  
**Date Analysis Commenced** Jul 06, 2023  
**Condition of Sample** Contained in two glass vials, two BOD bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	mmol/L	0.002	0.004	8.55	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mmol/L	0.002	0.004	2.52	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	-	4.19	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mmol/L	0.002	0.004	14.0	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Volatile Organics Compounds</b>							
Bromodichloromethane	mg/L	0.0002	0.0005	0.002	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform	mg/L	0.0002	0.0005	0.005	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethane	mg/L	0.0002	0.001	0.007	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
<b>Water Testing</b>							

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Sawitree N.  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 2370646**

Date Received : Jul 05, 2023  
Date Reported : Jul 13, 2023  
Report Number : 2688968-2

Page 2 of 2

**Sample Number** 2370646-1  
**Sampled Date** Jul 05, 2023 9:22 AM  
**Sample Description** Wastewater  
**Location** นาคำพลาญพิศ 2 ฟ้า 3 (ฝั่ง/บริเวณข้างห้องน้ำพักทำ)  
**Date Analysis Commenced** Jul 06, 2023  
**Condition of Sample** Contained in two glass vials, two BOD bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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)	Bangkok

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

**Sampling By :** Prapote Wannachoochai

Remark :

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

**Approved by**  
*Sawitree N.*  
Sawitree Nolsanglam  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No 0009  
**Lot ID: 2370671**

Date Received : Jul 05, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2688973-1

Page 1 of 1

**Sample Number** 2370671-1  
**Sampled Date** Jul 05, 2023 9:29 AM  
**Sample Description** Wastewater  
**Location** นาคำพลาญพิศ  
**Date Analysis Commenced** Jul 06, 2023  
**Condition of Sample** Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.3	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (6)	Bangkok
Temperature *	Degree C	-	-	32.0	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	988	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampling By :** Prapote Wannachoochai วันที่เก็บ ๖-204-๖-7109

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

**Technical Management**  
**Approved by**  
*Siriluk P.*  
Siriluk Puengiang  
Section Head  
วันที่อนุมัติ ๖-204-๖-4720

**Approved by**  
*Kanokorn Anek*  
Kanokorn Anek  
Senior Manager  
วันที่อนุมัติ ๖-204-๖-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 2374353**  
Date Received : Aug 11, 2023  
Date Reported : Aug 21, 2023  
Report Number : 2697982-1

Page 1 of 1

**Sample Number** 2374353-1  
**Sampled Date** Aug 11, 2023 2:10 PM  
**Sample Description** Wastewater  
**Location** นาน้ำทิ้งจากอาคาร 2 หน้า 3 (ด้าน/อาคารด้านหน้าอาคาร)  
**Date Analysis Commenced** Aug 12, 2023  
**Condition of Sample** Contained in two glass vials, three plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.3	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
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)	Bangkok
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)	Bangkok
Temperature *	Degree C	-	-	32.7	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2584	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

**Sampling By :** Attipon Yaso โทร 09-00000000-204-7108

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

**Technical Management**  
Siriluk P.  
Section Head  
โทร 09-00000000-204-4720

**Approved by**  
Kanokorn Anek  
Senior Manager  
โทร 09-00000000-204-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 2374353**  
Date Received : Aug 11, 2023  
Date Reported : Aug 21, 2023  
Report Number : 2697982-2

Page 1 of 2

**Sample Number** 2374353-1  
**Sampled Date** Aug 11, 2023 2:10 PM  
**Sample Description** Wastewater  
**Location** นาน้ำทิ้งจากอาคาร 2 หน้า 3 (ด้าน/อาคารด้านหน้าอาคาร)  
**Date Analysis Commenced** Aug 12, 2023  
**Condition of Sample** Contained in two glass vials, three plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium *	mmol/L	0.002	0.004	9.18	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mmol/L	0.002	0.004	2.59	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	4.69	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mmol/L	0.002	0.004	16.1	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Volatile Organics Compounds</b>							
Bromodichloromethane *	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform *	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform *	mg/L	0.0002	0.0005	0.006	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane *	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethane *	mg/L	0.0002	0.001	0.006	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok

### Water Testing

**Approved by**  
Sawitree N.  
Manager  
Sawitree Nolsiangman

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 2374353**  
Date Received : Aug 11, 2023  
Date Reported : Aug 21, 2023  
Report Number : 2697982-2

Page 2 of 2

**Sample Number** 2374353-1  
**Sampled Date** Aug 11, 2023 2:10 PM  
**Sample Description** Wastewater  
**Location** นาน้ำท่าพลัดน้ำ 2 ฟ้า 3 (ฝั่ง/บริเวณข้างถนนหลัก)  
**Date Analysis Commenced** Aug 12, 2023  
**Condition of Sample** Contained in two glass vials, three plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	6.6	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

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

**Sampling By :** Attipon Yaso

**Remark :**  
- LOD : Limit of Detection  
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
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**Approved by**  
  
Sawitree Nolsangiam  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 2374355**  
Date Received : Aug 11, 2023  
Date Reported : Aug 18, 2023  
Report Number : 2697994-1

Page 1 of 1

**Sample Number** 2374355-1  
**Sampled Date** Aug 11, 2023 2:15 PM  
**Sample Description** Wastewater  
**Location** นาน้ำท่าพลัดน้ำ  
**Date Analysis Commenced** Aug 12, 2023  
**Condition of Sample** Contained in one amber glass bottle and 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							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (5)	Bangkok
Temperature *	Degree C	-	-	32.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	656	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampling By :** Attipon Yaso นาน้ำท่าพลัดน้ำ 2-204-3-7108

**Remark :**  
- LOD : Limit of Detection  
- "C" : 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.

**Technical Management**  
  
Nanthawadee Sombon  
Specialist 1  
นาน้ำท่าพลัดน้ำ 2-204-3-4716

**Approved by**

Kanokkom Anek  
Senior Manager  
นาน้ำท่าพลัดน้ำ 2-204-3-6111

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Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O :

Project Name : Monitoring EIA

Project Location: GBL

## Analysis / Test Report

### TESTING

No.0009

Lot ID: 2390351

Date Received : Sep 06, 2023

Date Reported : Sep 14, 2023

Report Number : 2735282-1

Page 1 of 1

Sample Number	2390351-1			
Sampled Date	Sep 06, 2023 8:50 AM			
Sample Description	Wastewater			
Location	น้ำทิ้งจากไลน์ที่ 2 หน้า 3 (ฝั่ง/อาคารที่จับตามอง)			
Date Analysis Commenced	Sep 07, 2023			
Condition of Sample	Contained in three plastic bottles, two BOD bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>						
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	Bangkok
pH at 25 degree C *		-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
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)	Bangkok
Temperature *	Degree C	-	32.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	5	2232	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

**Sampling By** : Prapot Wannachoochai โทร 09-204-87109

Remark :  
- LOD : Limit of Detection  
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
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### Technical Management

Siriluk P.  
Section Head  
โทร 09-204-8720

### Approved by

Kanokorn Anek  
Senior Manager  
โทร 09-204-86111

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Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O :

Project Name : Monitoring EIA

Project Location: GBL

## Analysis / Test Report

Lot ID: 2390351

Date Received : Sep 06, 2023

Date Reported : Sep 14, 2023

Report Number : 2735282-2

Page 1 of 2

Sample Number	2390351-1			
Sampled Date	Sep 06, 2023 8:50 AM			
Sample Description	Wastewater			
Location	น้ำทิ้งจากไลน์ที่ 2 หน้า 3 (ฝั่ง/อาคารที่จับตามอง)			
Date Analysis Commenced	Sep 07, 2023			
Condition of Sample	Contained in three plastic bottles, two BOD bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	mmol/L	0.002	0.004	7.84	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mmol/L	0.002	0.004	2.25	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	-	5.06	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mmol/L	0.002	0.004	16.1	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Volatile Organics Compounds</b>							
Bromodichloromethane	mg/L	0.0002	0.0005	0.002	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform	mg/L	0.0002	0.0005	0.0004127	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform	mg/L	0.0002	0.0005	0.01	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane	mg/L	0.0002	0.0005	0.002	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethane	mg/L	0.0002	0.001	0.02	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
<b>Water Testing</b>							

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### Approved by

Sawitree N.  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 2390351**  
Date Received : Sep 06, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2735282-2

Page 2 of 2

**Sample Number** 2390351-1  
**Sampled Date** Sep 06, 2023 8:50 AM  
**Sample Description** Wastewater  
**Location** นาคำพลเมือง 2 ฟ้า 3 (ฝั่ง/บริเวณข้างห้องน้ำพัก)

**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Contained in three plastic bottles, two BOD bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	6.4	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

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

**Sampling By :** Prapote Wannachoochai

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

**Approved by**  
  
Sawitree Nolsangiam  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 2390353**  
Date Received : Sep 06, 2023  
Date Reported : Sep 13, 2023  
Report Number : 2735284-1

Page 1 of 1

**Sample Number** 2390353-1  
**Sampled Date** Sep 06, 2023 9:00 AM  
**Sample Description** Wastewater  
**Location** นาคำพลเมือง

**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (6)	Bangkok
Temperature *	Degree C	-	-	31.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	720	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant  
**Sampling By :** Prapote Wannachoochai

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

**Technical Management**  
  
Suwimon Chaiuangwut  
Scientist (3)  
โทรศัพท์ ๖-204-๖-5417

**Approved by**

Kanokorn Anek  
Senior Manager  
โทรศัพท์ ๖-204-๖-6111

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Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location: GBL

## Analysis / Test Report

### TESTING

No.0009

Lot ID: 23107003

Date Received : Oct 04, 2023

Date Reported : Oct 11, 2023

Report Number : 2773802-1

Page 1 of 1

Sample Number	23107003-1
Sampled Date	Oct 04, 2023 9:45 AM
Sample Description	Wastewater
Location	น้ำพักน้ำแฉะพื้นที่ 2 และ 3 (ฝั่ง/บริเวณข้างถนนหลัก)
Date Analysis Commenced	Oct 05, 2023
Condition of Sample	Contained in two BOD bottles, three plastic bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.3	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
pH at 25 degree C *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
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)	Bangkok
Temperature *	Degree C	-	-	31.6	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2368	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

**Sampling By** : Attipon Yaso รหัสประจำตัว ๓-204-๓-7108

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

### Technical Management

Siriluk P.  
Section Head  
รหัสประจำตัว ๓-204-๓-4720

### Approved by

Kanokorn Anek  
Senior Manager  
รหัสประจำตัว ๓-204-๓-6111

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location: GBL

Lot ID: 23107003

Date Received : Oct 04, 2023

Date Reported : Oct 12, 2023

Report Number : 2773802-2

Page 1 of 2

Sample Number	23107003-1
Sampled Date	Oct 04, 2023 9:45 AM
Sample Description	Wastewater
Location	น้ำพักน้ำแฉะพื้นที่ 2 และ 3 (ฝั่ง/บริเวณข้างถนนหลัก)
Date Analysis Commenced	Oct 05, 2023
Condition of Sample	Contained in two BOD bottles, three plastic bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	mmol/L	0.002	0.004	7.56	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mmol/L	0.002	0.004	2.43	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	-	4.03	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mmol/L	0.002	0.004	12.7	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Volatile Organics Compounds</b>							
Bromodichloromethane	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform	mg/L	0.0002	0.0005	0.008	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethane	mg/L	0.0002	0.001	0.008	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok

### Water Testing

### Approved by

Sawitree N.  
Manager  
Sawitree Nolsiangman

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23107003**  
Date Received : Oct 04, 2023  
Date Reported : Oct 12, 2023  
Report Number : 2773802-2

Page 2 of 2

**Sample Number** 23107003-1  
**Sampled Date** Oct 04, 2023 9:45 AM  
**Sample Description** Wastewater  
**Location** นาน้ำทิ้งจากห้องปฏิบัติการ  
**Date Analysis Commenced** Oct 05, 2023  
**Condition of Sample** Contained in two BOD bottles, three plastic bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	5.2	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

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

**Sampling By :** Attipon Yaso

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

**Approved by**  
  
Sawitree Nolsanglam  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No. 0009  
**Lot ID: 23107005**  
Date Received : Oct 04, 2023  
Date Reported : Oct 11, 2023  
Report Number : 2773804-1

Page 1 of 1

**Sample Number** 23107005-1  
**Sampled Date** Oct 04, 2023 10:00 AM  
**Sample Description** Wastewater  
**Location** นาน้ำทิ้งจาก  
**Date Analysis Commenced** Oct 05, 2023  
**Condition of Sample** Contained in two plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (6)	Bangkok
Temperature *	Degree C	-	-	31.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	596	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant  
**Sampling By :** Attipon Yaso โทร ๐๙-๐๙๐๙๐๙๐๙ ๖-204-๖-7108

**Remark :**  
- LOD : Limit of Detection  
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
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**Technical Management**  
  
Siriluk Puengiang  
Section Head  
โทร ๐๙-๐๙๐๙๐๙๐๙ ๖-204-๖-4720

**Approved by**

Kanokorn Anek  
Senior Manager  
โทร ๐๙-๐๙๐๙๐๙๐๙ ๖-204-๖-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 23122999**  
Date Received : Nov 01, 2023  
Date Reported : Nov 08, 2023  
Report Number : 2813786-1

Page 1 of 1

<b>Sample Number</b>	23122999-1
<b>Sampled Date</b>	Nov 01, 2023 9:33 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำพักไหลในถัง 2 และ 3 (ถังเก็บน้ำทิ้งในอาคาร)
<b>Date Analysis Commenced</b>	Nov 02, 2023
<b>Condition of Sample</b>	Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	Bangkok
pH at 25 degree C *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
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)	Bangkok
Temperature *	Degree C	-	-	33.1	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2400	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

**Sampling By :** Prapote Wannachoochai โทร 09-204-47109

**Remark :**  
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**Technical Management**  
**Siriluk P.**  
Siriluk Puengpang  
Section Head  
โทร 09-204-4720

**Approved by**  
**Kanokorn Anek**  
Senior Manager  
โทร 09-204-46111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 23122999**  
Date Received : Nov 01, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2813786-2

Page 1 of 2

<b>Sample Number</b>	23122999-1
<b>Sampled Date</b>	Nov 01, 2023 9:33 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำพักไหลในถัง 2 และ 3 (ถังเก็บน้ำทิ้งในอาคาร)
<b>Date Analysis Commenced</b>	Nov 02, 2023
<b>Condition of Sample</b>	Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium *	mmol/L	0.002	0.004	7.64	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mmol/L	0.002	0.004	2.69	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	3.58	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mmol/L	0.002	0.004	11.5	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Volatile Organics Compounds</b>							
Bromodichloromethane *	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform *	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform *	mg/L	0.0002	0.0005	0.007	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane *	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethane *	mg/L	0.0002	0.001	0.007	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok

### Water Testing

**Approved by**

**Savitree N.**  
Savitree Nolsangiam  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 23122999**  
Date Received : Nov 01, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2813786-2

Page 2 of 2

**Sample Number** 23122999-1  
**Sampled Date** Nov 01, 2023 9:33 AM  
**Sample Description** Wastewater  
**Location** นาคำพลเมือง 2 ฟา 3 (ฝั่ง/บริเวณข้างห้องน้ำพัก)

**Date Analysis Commenced** Nov 02, 2023  
**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen *	mg/L	-	0.1	5.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

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

**Sampling By :** Prapote Wannachoochai

**Remark :**

- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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**Approved by**  
*Sawitree N.*  
Sawitree Nolsangiam  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 23123000**  
Date Received : Nov 01, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2813788-1

Page 1 of 1

**Sample Number** 23123000-1  
**Sampled Date** Nov 01, 2023 9:22 AM  
**Sample Description** Wastewater  
**Location** นาคำพลเมือง 2 ฟา 3 (ฝั่ง/บริเวณข้างห้องน้ำพัก)

**Date Analysis Commenced** Nov 02, 2023  
**Condition of Sample** Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.7	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (6)	Bangkok
Temperature *	Degree C	-	-	31.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	384	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampling By :** Prapote Wannachoochai

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

**Technical Management**  
*Siriruk P.*  
Siriruk Puengiang  
Section Head

**Approved by**  
*Kanokorn Anek*  
Kanokorn Anek  
Senior Manager

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14979-21/ EMAIL

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Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O :

Project Name : Monitoring EIA

Project Location: GBL

## Analysis / Test Report

### TESTING

No.0009

Lot ID: 23131990

Date Received : Dec 06, 2023

Date Reported : Dec 13, 2023

Report Number : 2833397-1

Page 1 of 1

Sample Number	23131990-1
Sample Date	Dec 06, 2023 10:55 AM
Sample Description	Wastewater
Location	น้ำพักไหลในถัง 2 หน้า 3 (ถัง/ภาชนะเก็บตัวอย่าง)
Date Analysis Commenced	Dec 07, 2023
Condition of Sample	Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	Bangkok
pH at 25 degree C *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
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)	Bangkok
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2448	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

**Sampling By** : Attipon Yaso รหัสประจำตัว 7-204-3-7108

### 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.

### Technical Management

**Swimon C.**  
Suwimon Chaiuangwut  
Scientist (3)

รหัสประจำตัว 7-204-3-5417

### Approved by

**Kanokorn Anek**  
Senior Manager

รหัสประจำตัว 7-204-3-6111

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Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O :

Project Name : Monitoring EIA

Project Location: GBL

## Analysis / Test Report

Lot ID: 23131990

Date Received : Dec 06, 2023

Date Reported : Dec 14, 2023

Report Number : 2833397-2

Page 1 of 2

Sample Number	23131990-1
Sample Date	Dec 06, 2023 10:55 AM
Sample Description	Wastewater
Location	น้ำพักไหลในถัง 2 หน้า 3 (ถัง/ภาชนะเก็บตัวอย่าง)
Date Analysis Commenced	Dec 07, 2023
Condition of Sample	Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	mmol/L	0.002	0.004	7.71	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mmol/L	0.002	0.004	2.67	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	4.13	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mmol/L	0.002	0.004	13.3	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Volatile Organics Compounds</b>							
Bromodichloromethane	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromofom	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform	mg/L	0.0002	0.0005	0.003	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane	mg/L	0.0002	0.0005	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethane	mg/L	0.0002	0.001	0.003	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok

### Water Testing

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### Approved by

**Chanatt L.**  
Chanattagarn Jindom

Section Head

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131990**  
Date Received : Dec 06, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2833397-2

Page 2 of 2

**Sample Number** 23131990-1  
**Sampled Date** Dec 06, 2023 10:55 AM  
**Sample Description** Wastewater  
**Location** นาคำพัฒนาพื้นที่ 2 ฟ้า 3 (ฝั่ง/บริเวณด้านข้างในป่าไผ่)  
**Date Analysis Commenced** Dec 07, 2023  
**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Dissolved Oxygen	mg/L	-	0.1	5.5	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

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

**Sampling By :** Attipon Yaso

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

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. This report is not reproduced except in full.

**Approved by**

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131993**  
Date Received : Dec 06, 2023  
Date Reported : Dec 12, 2023  
Report Number : 2833399-1

Page 1 of 1

**Sample Number** 23131993-1  
**Sampled Date** Dec 06, 2023 10:50 AM  
**Sample Description** Wastewater  
**Location** นาคำพัฒนา  
**Date Analysis Commenced** Dec 07, 2023  
**Condition of Sample** Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	66.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (6)	Bangkok
Temperature *	Degree C	-	-	30.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	640	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant  
**Sampling By :** Attipon Yaso นพณเดช 7-204-3-7108

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

**Technical Management**

*Siriluk P.*

Siriluk Puengriang  
Section Head  
นพณเดช 7-204-3-4720

**Approved by**

*Kanokorn Anek*

Kanokorn Anek  
Senior Manager  
นพณเดช 7-204-3-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location:** GBL

**TESTING**  
No.0009  
**Lot ID: 23124778**  
Date Received : Nov 01, 2023  
Date Reported : Nov 13, 2023  
Report Number : 2817065-1 C8

Page 1 of 9

**Sample Number** 23124778-1  
**Sampled Date** Nov 01, 2023 1:36 PM  
**Sample Description** Surface Water  
**Location** แปลงกำจัดขยะมูลฝอยวัดบ้านท่าศาลา  
**Date Analysis Commenced** Nov 02, 2023  
**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Calcium *	mmol/L	0.002	0.004	0.63	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mmol/L	0.002	0.004	0.23	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	0.67	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mmol/L	0.002	0.004	0.62	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Volatile Organics Compounds</b>								
Bromodichloromethane *	mg/L	0.0002	0.0005	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 *	mg/L	0.0002	0.0005	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 *	mg/L	0.0002	0.0005	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 *	mg/L	0.0002	0.0005	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 Trihalomethane *	mg/L	0.0002	0.001	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
<b>Water Testing</b>								

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Approved by

*Sawitree N.*

Sawitree Nolsangiam  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location:** GBL

**TESTING**  
No.0009  
**Lot ID: 23124778**  
Date Received : Nov 01, 2023  
Date Reported : Nov 13, 2023  
Report Number : 2817065-1 C8

Page 2 of 9

**Sample Number** 23124778-1  
**Sampled Date** Nov 01, 2023 1:36 PM  
**Sample Description** Surface Water  
**Location** แปลงกำจัดขยะมูลฝอยวัดบ้านท่าศาลา  
**Date Analysis Commenced** Nov 02, 2023  
**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C * micromhos/cm	-	-	0.5	234	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.4	≥4	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
pH at 25 degree C	-	-	-	7.5	5.0-9.0	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H (B)	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	<0.1	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Bangkok
Temperature *	Degree C	-	-	33.9	(c)	(c)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	150	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	37	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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Approved by

*Sawitree N.*

Sawitree Nolsangiam  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No. 0009  
**Lot ID: 23124778**  
Date Received : Nov 01, 2023  
Date Reported : Nov 13, 2023  
Report Number : 2817065-1 C8

Page 3 of 9

**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

**Sampled By :** Prapote Wannachoochai

**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.

The above results are valid only for the analyzed/tested sample(s) as indicated in without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

*Sawitree N.*

Sawitree Nolsangiam  
Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No. 0009  
**Lot ID: 23124778**  
Date Received : Nov 01, 2023  
Date Reported : Nov 13, 2023  
Report Number : 2817065-1 C8

Page 4 of 9

**Sample Number** 23124778-2

**Sampled Date** Nov 01, 2023 12:45 PM

**Sample Description** Surface Water

**Location** บริเวณจุดตรวจน้ำทิ้งของอาคารโหล และ บริเวณทางน้ำไหล

**Date Analysis Commenced** Nov 02, 2023

**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
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Calcium	mg/L	0.03	0.05	31.4	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
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Magnesium	mg/L	0.03	0.05	5.95	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
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SAR *	-	-	0.10	1.11	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
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Sodium	mg/L	0.03	0.05	25.9	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
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### Volatile Organics Compounds

Bromodichloromethane *	mg/L	0.0002	0.0005	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
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Bromoform *	mg/L	0.0002	0.0005	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
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Chloroform *	mg/L	0.0002	0.0005	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
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Dibromochloromethane *	mg/L	0.0002	0.0005	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
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Total Trihalomethane *	mg/L	0.0002	0.001	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
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### Water Testing

The above results are valid only for the analyzed/tested sample(s) as indicated in without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

*Sawitree N.*

Sawitree Nolsangiam  
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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
**No.0009**  
**Lot ID: 23124778**  
Date Received : Nov 01, 2023  
Date Reported : Nov 13, 2023  
Report Number : 2817065-1 C8

Page 5 of 9

**Sample Number** 23124778-2  
**Sample Date** Nov 01, 2023 12:45 PM  
**Sample Description** Surface Water  
**Location** บริเวณจุดตรวจน้ำทิ้งของเทศบาลเมือง และ บริเวณชุมชนบางนา  
**Date Analysis Commenced** Nov 02, 2023  
**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	337	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.4	≥4	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
pH at 25 degree C	-	-	-	7.3	5.0-9.0	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H (B)	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	0.1	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Bangkok
Temperature *	Degree C	-	-	31.5	(c)	(c)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	212	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	30	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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Approved by

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
**No.0009**  
**Lot ID: 23124778**  
Date Received : Nov 01, 2023  
Date Reported : Nov 13, 2023  
Report Number : 2817065-1 C8

Page 6 of 9

**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

**Sampled By :** Prapote Wannachoochai

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

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 23124778**  
Date Received : Nov 01, 2023  
Date Reported : Nov 13, 2023  
Report Number : 2817065-1 C8

Page 7 of 9

**Sample Number** 23124778-3  
**Sampled Date** Nov 01, 2023 1:50 PM  
**Sample Description** Surface Water  
**Location** คลองลำน้ำเจ้าพระยาบริเวณทางหลวง 3 ตำบลบ้านเลน  
**Date Analysis Commenced** Nov 02, 2023  
**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Calcium *	mmol/L	0.002	0.004	0.61	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mmol/L	0.002	0.004	0.22	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	0.67	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mmol/L	0.002	0.004	0.61	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Volatile Organics Compounds</b>								
Bromodichloromethane *	mg/L	0.0002	0.0005	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 *	mg/L	0.0002	0.0005	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 *	mg/L	0.0002	0.0005	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 *	mg/L	0.0002	0.0005	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 Trihalomethane *	mg/L	0.0002	0.001	Not Detected	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
<b>Water Testing</b>								

This above results are valid only for the analyzed/tested sample(s) as indicated in without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

*Sawitree N.*

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 23124778**  
Date Received : Nov 01, 2023  
Date Reported : Nov 13, 2023  
Report Number : 2817065-1 C8

Page 8 of 9

**Sample Number** 23124778-3  
**Sampled Date** Nov 01, 2023 1:50 PM  
**Sample Description** Surface Water  
**Location** คลองลำน้ำเจ้าพระยาบริเวณทางหลวง 3 ตำบลบ้านเลน  
**Date Analysis Commenced** Nov 02, 2023  
**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C * micromhos/cm	-	-	0.5	234	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.5	≥4	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
pH at 25 degree C	-	-	-	7.5	5.0-9.0	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H (B)	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	<0.1	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Bangkok
Temperature *	Degree C	-	-	32.0	(c)	(c)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	160	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** GBL-4210700543  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No. 0009  
**Lot ID: 23124778**  
Date Received : Nov 01, 2023  
Date Reported : Nov 13, 2023  
Report Number : 2817065-1 C8

Page 9 of 9

**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

**Sampled By :** Prapoot Wannachoochai

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

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No. 0009  
**Lot ID: 23123003**  
Date Received : Nov 01, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2813791-1

Page 1 of 3

**Sample Number** 23123003-1  
**Sampled Date** Nov 01, 2023 1:42 PM  
**Sample Description** Surface water  
**Location** แหล่งน้ำชุมชนบริเวณท่าคลองบางนา  
**Date Analysis Commenced** Nov 02, 2023  
**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
---------	------	-----	-----------	--------	---------------	---------------	--------	------------------

**Metals Testing**  
Calcium \* mmol/L 0.002 0.004 0.65 No Standard No Standard In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7

Magnesium \* mmol/L 0.002 0.004 0.24 No Standard No Standard In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7

SAR \* - - 0.69 No Standard No Standard In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7

Sodium \* mmol/L 0.002 0.004 0.65 No Standard No Standard In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7

**Volatile Organics Compounds**  
Bromodichloromethane \* mg/L 0.0002 0.0005 Not Detected No Standard No Standard In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D

Bromoform \* mg/L 0.0002 0.0005 Not Detected No Standard No Standard In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D

Chloroform \* mg/L 0.0002 0.0005 Not Detected No Standard No Standard In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D

Dibromochloromethane \* mg/L 0.0002 0.0005 Not Detected No Standard No Standard In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D

Total Trihalomethane \* mg/L 0.0002 0.001 Not Detected No Standard No Standard In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D

**Water Testing**

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14179-21/ EMAIL

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 23123003**  
Date Received : Nov 01, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2813791-1

Page 2 of 3

**Sample Number** 23123003-1  
**Sampled Date** Nov 01, 2023 1:42 PM  
**Sample Description** Surface water  
**Location** แหล่งน้ำธรรมชาติบริเวณท่ารถคลองบางเลน  
**Date Analysis Commenced** Nov 02, 2023  
**Condition of Sample** Contained in two DO bottles, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	234	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.3	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
pH at 25 degree C		-	-	7.3	5.0-9.0	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	<0.1	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Bangkok
Temperature *	Degree C	-	-	32.6	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	138	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	40	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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Approved by

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**TESTING**  
No.0009  
**Lot ID: 23123003**  
Date Received : Nov 01, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2813791-1

Page 3 of 3

**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 :** Prapote Wannachoochai รหัสพนักงาน 3-204-3-7109

**Remark :**  
- LOD : Limit of Detection  
- "L" : 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.

The above results are valid only for the analyzed/tested sample(s) as indicated in 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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14179-21/ BMAL

S:\Reports\AL\_2023\p1 (21-4PM)



Project Location: GRI

Date Reported : NOV 25, 2011  
Report Number : 2843953-1

**Condition of Sample**  
 Contained in two BOD bottles, two glass vials, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Remark :

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

—

ทะเบียนเลขที่ ว-204-3-5417

ทะเบียนเลขที่ ว-204-ค-6111

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Project Name : Monitoring EIA

Project Name : Monitoring EIA

**Condition of Sample**  
Contained in two BOD bottles, two glass vials, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment: - preservation standards (APHA, USEPA)

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.

Suwimon Chairuangwut

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

Page 2 of 2

**Sample Number** 23123002-1  
**Sampled Date** Nov 15, 2023 9:30 AM  
**Sample Description** Groundwater  
**Location** น้ำดื่ม monitoring well : น้ำ 1  
**Date Analysis Commenced** Nov 16, 2023  
**Condition of Sample** Contained in two BOD bottles, 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 / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	<5	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	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

**Sampling By :** Attipon Yaso

- Remark :
- LOD : Limit of Detection
  - "LC" : 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.



**TESTING**  
No.0009  
**Lot ID: 23123002**  
Date Received : Nov 15, 2023  
Date Reported : Nov 23, 2023  
Report Number : 2843953-2

**Approved by**  
  
Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

Page 1 of 1

**Sample Number** 23123002-2  
**Sampled Date** Nov 15, 2023 11:10 AM  
**Sample Description** Groundwater  
**Location** น้ำดื่ม monitoring well : น้ำ 2  
**Date Analysis Commenced** Nov 16, 2023  
**Condition of Sample** Contained in two BOD bottles, 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 / Specification	Method	Testing Location
<b>Volatile Organics Compounds</b>							
Bromodichloromethane	mg/L	0.0002	0.0005	Not Detected	0.8	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Bromoform	mg/L	0.0002	0.0005	Not Detected	6.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Chloroform	mg/L	0.0002	0.0005	Not Detected	8.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Dibromochloromethane	mg/L	0.0002	0.0005	Not Detected	0.6	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
<b>Water Testing</b>							
pH at 25 degree C	-	-	-	6.6	6.5-9.2 (1)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	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

(1): สูตรที่ใช้การปรับแก้ค่าความเป็นกรด-ด่างจากค่าความเป็นกรด-ด่างที่วัดได้ในการทดสอบตามตารางผลการประเมินคุณภาพสิ่งแวดล้อม  
ตัวอย่างผลการปรับแก้ค่าความเป็นกรด-ด่างที่วัดได้ในการทดสอบตามตารางผลการประเมินคุณภาพสิ่งแวดล้อม  
มาตรฐานค่าความเป็นกรด-ด่างที่วัดได้ในการทดสอบตามตารางผลการประเมินคุณภาพสิ่งแวดล้อม  
มาตรฐานค่าความเป็นกรด-ด่างที่วัดได้ในการทดสอบตามตารางผลการประเมินคุณภาพสิ่งแวดล้อม

**Sampling By :** Attipon Yaso

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

**Technical Management**  
  
Suwimon Chairuangwut  
Scientist (3)

**Approved by**

Kanokrom Anek  
Senior Manager  
Phone number : 0-204-6-6111

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location:** GBL

**TESTING**  
No.0009  
**Lot ID: 23123002**  
Date Received : Nov 15, 2023  
Date Reported : Nov 23, 2023  
Report Number : 2843954-2

Page 1 of 2

**Sample Number** 23123002-2  
**Sampled Date** Nov 15, 2023 11:10 AM  
**Sample Description** Groundwater  
**Location** ๓๕๕๓๓๓ monitoring well : ๓๕ 2  
**Date Analysis Commenced** Nov 16, 2023  
**Condition of Sample** Contained in two BOD bottles, 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 / Specification	Method	Testing Location
<b>Volatile Organics Compounds</b>							
Total Trihalomethane *	mg/L	0.0002	0.001	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Conductivity (Onsite) *	micromhos/cm	-	-	2.388	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	2.6	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
Residual Free Chlorine *	mg/L	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Bangkok
Temperature *	Degree C	-	-	30.6	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	1926	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok

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**Suwimon Chairuangwut**  
Scientist (3)



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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location:** GBL

**TESTING**  
No.0009  
**Lot ID: 23123002**  
Date Received : Nov 15, 2023  
Date Reported : Nov 23, 2023  
Report Number : 2843954-2

Page 2 of 2

**Sample Number** 23123002-2  
**Sampled Date** Nov 15, 2023 11:10 AM  
**Sample Description** Groundwater  
**Location** ๓๕๕๓๓๓ monitoring well : ๓๕ 2  
**Date Analysis Commenced** Nov 16, 2023  
**Condition of Sample** Contained in two BOD bottles, 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 / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	18	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	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

**Sampling By :** Attitipon Yaso

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

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**Suwimon Chairuangwut**  
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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

Lot ID: 2390343

Date Received : Sep 09, 2023

Date Reported : Sep 14, 2023

Report Number: 2777204-1

P/O :

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 2390343-1

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Cooling Tower

Measurement Date Sep 06, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	83.8	95.4	83.5
09:30 AM - 10:30 AM	83.8	94.9	83.4
10:30 AM - 11:30 AM	83.7	95.2	83.3
11:30 AM - 12:30 PM	83.6	95.4	83.1
12:30 PM - 01:30 PM	83.5	94.5	83.1
01:30 PM - 02:30 PM	83.7	94.8	83.3
02:30 PM - 03:30 PM	83.6	95.5	83.2
03:30 PM - 04:30 PM	83.7	95.6	83.3

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง

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Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง

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Technical Management

Orawan Rakying

Scientist (3)

Approved by

Supot Salamteh

Section Head

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

Lot ID: 2390343

Date Received : Sep 09, 2023

Date Reported : Sep 14, 2023

Report Number: 2777205-1

P/O :

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 2390343-2

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Gas Compressor

Measurement Date Sep 06, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	63.5	73.0	62.4
09:30 AM - 10:30 AM	63.4	67.1	62.6
10:30 AM - 11:30 AM	63.1	72.4	62.3
11:30 AM - 12:30 PM	62.6	67.9	61.9
12:30 PM - 01:30 PM	62.4	67.6	61.7
01:30 PM - 02:30 PM	62.8	69.3	62.1
02:30 PM - 03:30 PM	63.7	73.7	62.6
03:30 PM - 04:30 PM	63.8	69.4	63.2

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง

ในการประกอบกิจการโรงงานเกี่ยวกับลักษณะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

Orawan Rakying

Scientist (3)

Approved by

Supot Salamteh

Section Head

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

Lot ID: 2390343

Date Received : Sep 09, 2023

Date Reported : Sep 14, 2023

Report Number: 2777206-1

P/O :

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 2390343-3

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Boiler Feed Pump

Measurement Date Sep 06, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	80.6	82.0	80.3
09:30 AM - 10:30 AM	80.5	81.3	80.2
10:30 AM - 11:30 AM	80.2	81.4	80.1
11:30 AM - 12:30 PM	80.1	81.3	79.9
12:30 PM - 01:30 PM	80.1	81.1	79.9
01:30 PM - 02:30 PM	80.1	80.9	80.0
02:30 PM - 03:30 PM	80.1	81.3	80.0
03:30 PM - 04:30 PM	80.3	81.0	80.1

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังกลับ

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Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังกลับ

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Technical Management

Orawan Rakying

Scientist (3)

Approved by

Supot Salameh

Section Head

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

Lot ID: 2390343

Date Received : Sep 09, 2023

Date Reported : Sep 14, 2023

Report Number: 2777207-1

P/O :

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 2390343-4

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Gas Turbine 1

Measurement Date Sep 06, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	83.2	84.2	83.1
09:30 AM - 10:30 AM	83.1	84.3	82.9
10:30 AM - 11:30 AM	82.9	83.6	82.7
11:30 AM - 12:30 PM	83.0	83.9	82.8
12:30 PM - 01:30 PM	83.1	84.0	82.9
01:30 PM - 02:30 PM	83.2	86.6	82.9
02:30 PM - 03:30 PM	83.1	84.1	82.9
03:30 PM - 04:30 PM	83.0	83.8	82.8

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังกลับ

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Technical Management

Orawan Rakying

Scientist (3)

Approved by

Supot Salameh

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

Lot ID: 2390343

Date Received : Sep 09, 2023

Date Reported : Sep 14, 2023

Report Number: 2777208-1

P/O :

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 2390343-5

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Gas Turbine 2

Measurement Date Sep 06, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	75.4	81.5	75.0
09:30 AM - 10:30 AM	75.1	76.7	74.8
10:30 AM - 11:30 AM	75.3	77.8	74.7
11:30 AM - 12:30 PM	75.1	76.8	74.6
12:30 PM - 01:30 PM	75.1	77.2	74.6
01:30 PM - 02:30 PM	75.2	76.7	74.8
02:30 PM - 03:30 PM	75.4	77.0	74.9
03:30 PM - 04:30 PM	76.9	78.8	75.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง

ในการประเมินการรังานด้านเสียงและการควบคุมเสียงในกรทำงาน พ.ศ.๒๕๕๖

75.5

81.5

140

Technical Management

Orawan Rakying

Scientist (3)

Approved by

Supot Salameh

Section Head

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

Lot ID: 2390343

Date Received : Sep 09, 2023

Date Reported : Sep 14, 2023

Report Number: 2777209-1

P/O :

Project Name : Monitoring EIA

Project Location : GBL

Page 1 of 1

Sample Number 2390343-6

Parameter Noise (Leq 8 hrs.)

Location ฝักรีด Steam Turbine

Measurement Date Sep 06, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	76.5	79.0	76.3
09:30 AM - 10:30 AM	76.4	77.1	76.1
10:30 AM - 11:30 AM	76.2	78.2	76.0
11:30 AM - 12:30 PM	76.2	77.1	76.1
12:30 PM - 01:30 PM	76.2	77.2	76.0
01:30 PM - 02:30 PM	76.2	77.1	76.1
02:30 PM - 03:30 PM	76.4	81.9	76.2
03:30 PM - 04:30 PM	76.5	77.2	76.3

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง

ในการประเมินการรังานด้านเสียงและการควบคุมเสียงในกรทำงาน พ.ศ.๒๕๕๖

76.3

81.9

140

Technical Management

Orawan Rakying

Scientist (3)

Approved by

Supot Salameh

Section Head

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Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O : GBL-4210700543  
Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Jan 03, 2024  
Report Number: 2870012-1C8

Page 1 of 1

Sample Number	23131969-1
Parameter	Noise (Leq 8 hrs.)
Location	พื้นที่ Cooling Tower
Measurement Date	Dec 12, 2023
Measurement by	Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	81.0	91.5	80.4
10:00 AM - 11:00 AM	81.1	91.1	80.6
11:00 AM - 12:00 PM	81.3	90.7	80.4
12:00 PM - 01:00 PM	81.5	91.3	81.1
01:00 PM - 02:00 PM	81.5	90.9	81.1
02:00 PM - 03:00 PM	81.4	91.0	81.0
03:00 PM - 04:00 PM	81.3	90.2	80.9
04:00 PM - 05:00 PM	81.4	90.5	81.0

Leq Average 8 hrs. (dB(A))  
Lmax (dB(A))  
Standard (dB(A))  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง  
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Technical Management

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Orawan Rakying  
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Suppt S.

Supot Salamteh  
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Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Jan 03, 2024  
Report Number: 2870015-1C8

Page 1 of 1

Sample Number	23131969-4
Parameter	Noise (Leq 8 hrs.)
Location	พื้นที่ Cooling Tower
Measurement Date	Dec 13, 2023
Measurement by	Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	80.9	90.5	80.5
10:00 AM - 11:00 AM	80.8	90.3	80.3
11:00 AM - 12:00 PM	80.8	90.3	80.2
12:00 PM - 01:00 PM	81.4	90.3	81.0
01:00 PM - 02:00 PM	81.3	90.6	80.9
02:00 PM - 03:00 PM	81.4	90.9	81.0
03:00 PM - 04:00 PM	81.5	90.6	81.2
04:00 PM - 05:00 PM	81.6	90.9	81.2

Leq Average 8 hrs. (dB(A))  
Lmax (dB(A))  
Standard (dB(A))  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง  
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P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Jan 03, 2024

Report Number: 2870018-1C8

Page 1 of 1

Sample Number 23131969-7

Parameter Noise (Leq 8 hrs.)

Location อ่างน้ำ Cooling Tower

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	79.7	90.6	79.1
10:00 AM - 11:00 AM	79.8	90.7	79.2
11:00 AM - 12:00 PM	79.6	90.2	78.9
12:00 PM - 01:00 PM	79.9	90.9	79.4
01:00 PM - 02:00 PM	79.9	91.1	79.3
02:00 PM - 03:00 PM	79.9	90.6	79.4
03:00 PM - 04:00 PM	80.1	90.6	79.6
04:00 PM - 05:00 PM	80.0	90.6	79.6

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : มาตรฐานการวัดและประเมินผลเสียงตามเกณฑ์ของกรมควบคุมมลพิษ

Standard : มาตรฐานการวัดและประเมินผลเสียงตามเกณฑ์ของกรมควบคุมมลพิษ

Technical Management

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P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Jan 03, 2024

Report Number: 2870021-1C8

Page 1 of 1

Sample Number 23131969-10

Parameter Noise (Leq 8 hrs.)

Location อ่างน้ำ Gas Compressor

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.0	66.6	60.5
10:00 AM - 11:00 AM	60.4	65.3	59.9
11:00 AM - 12:00 PM	62.0	66.9	59.9
12:00 PM - 01:00 PM	62.0	65.5	61.2
01:00 PM - 02:00 PM	62.6	69.0	61.9
02:00 PM - 03:00 PM	62.7	66.7	61.9
03:00 PM - 04:00 PM	62.8	73.8	62.1
04:00 PM - 05:00 PM	63.1	73.9	62.4

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : มาตรฐานการวัดและประเมินผลเสียงตามเกณฑ์ของกรมควบคุมมลพิษ

Standard : มาตรฐานการวัดและประเมินผลเสียงตามเกณฑ์ของกรมควบคุมมลพิษ

Technical Management

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Orawan Rakying

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**Project Name** : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16 2023

Date Received : Dec 10, 2024  
Date Reported : Jan 03, 2024

Date Reported : Jan 05, 2024  
Report Number: 2870024-1C8

Report Number: 2870027-1C8

Page 1 of 1

Sample Number	23131969-16			
Parameter	Noise (Leq 8 hrs.)			
Location	Industrial Gas Compressor			
Measurement Date	Dec 14, 2023			
Measurement by	Phongsiri Somkaew			
	Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
	09:00 AM - 10:00 AM	60.8	66.9	60.3
	10:00 AM - 11:00 AM	60.4	67.2	59.8
	11:00 AM - 12:00 PM	59.9	63.3	59.4
	12:00 PM - 01:00 PM	61.9	65.7	60.7
	01:00 PM - 02:00 PM	61.6	63.4	61.2
	02:00 PM - 03:00 PM	62.4	69.6	61.7
	03:00 PM - 04:00 PM	62.6	65.6	62.0
	04:00 PM - 05:00 PM	64.6	67.3	62.7

Leq Average 8 hrs. (dB(A)) 62.0  
Lmax (dB(A))  
Standard (dB(A)) 90  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ปกติการตรวจวัดเสียงตามวิธีของกรมส่งเสริมการค้าระหว่างประเทศ  
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Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16 2023

Date Received : Dec 10, 2024  
Date Reported : Jan 03, 2024

Date Reported : Jan 05, 2024  
Report Number: 2870024-1C8

Report Number: 2870027-1C8

Page 1 of 1

Sample Number	23131969-13			
Parameter	Noise (Leq 8 hrs.)			
Location	uffral Gas Compressor			
Measurement Date	Dec 13, 2023			
Measurement by	Phongsiri Somkaew			
Time				
	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
09:00 AM - 10:00 AM	61.5	72.1	61.1	
10:00 AM - 11:00 AM	61.6	67.3	60.7	
11:00 AM - 12:00 PM	61.1	80.1	60.5	
12:00 PM - 01:00 PM	62.9	70.7	61.6	
01:00 PM - 02:00 PM	62.3	68.2	61.6	
02:00 PM - 03:00 PM	62.5	67.9	61.8	
03:00 PM - 04:00 PM	62.9	69.0	62.3	
04:00 PM - 05:00 PM	63.4	68.7	62.7	

Leq Average 8 hrs. (dB(A))	62.3
Lmax (dB(A))	
Standard (dB(A))	90
Reference Method : Based on ISO1996-1 and 1996-2	
Standard :	ประเทศทางอุตสาหกรรม, เรือ, การก่อสร้างตามปกติและอื่น ๆ ในการประเมินการรบกวนจากสิ่งแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

## Technical Management

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Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Jan 03, 2024  
Report Number: 2870030-1C8

Page 1 of 1

Sample Number	23131969-19
Parameter	Noise (Leq 8 hrs.)
Location	ไฟฟ้า Boiler Feed Pump
Measurement Date	Dec 12, 2023
Measurement by	Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	79.8	80.7	79.6
10:00 AM - 11:00 AM	79.8	80.6	79.6
11:00 AM - 12:00 PM	80.9	83.3	79.9
12:00 PM - 01:00 PM	80.6	85.5	80.1
01:00 PM - 02:00 PM	80.6	81.6	80.4
02:00 PM - 03:00 PM	80.4	80.8	80.2
03:00 PM - 04:00 PM	80.4	80.9	80.3
04:00 PM - 05:00 PM	80.5	85.0	80.4

Leq Average 8 hrs. (dB(A)) 80.4  
Lmax (dB(A)) 85.5  
Standard (dB(A)) 90  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง  
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Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Jan 03, 2024  
Report Number: 2870033-1C8

Page 1 of 1

Sample Number	23131969-22
Parameter	Noise (Leq 8 hrs.)
Location	ไฟฟ้า Boiler Feed Pump
Measurement Date	Dec 13, 2023
Measurement by	Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	79.4	82.5	79.3
10:00 AM - 11:00 AM	79.4	79.9	79.2
11:00 AM - 12:00 PM	79.6	82.1	78.9
12:00 PM - 01:00 PM	80.4	82.9	79.5
01:00 PM - 02:00 PM	80.5	81.2	80.3
02:00 PM - 03:00 PM	80.5	81.2	80.3
03:00 PM - 04:00 PM	80.6	81.1	80.4
04:00 PM - 05:00 PM	80.6	81.6	80.5

Leq Average 8 hrs. (dB(A)) 80.2  
Lmax (dB(A)) 82.9  
Standard (dB(A)) 90  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง  
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P/O : GBL-4210700543  
Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Jan 03, 2024  
Report Number: 2870036-1C8

Page 1 of 1

Sample Number	23131969-25
Parameter	Noise (Leq 8 hrs.)
Location	ไฟฟ้า Boiler Feed Pump
Measurement Date	Dec 14, 2023
Measurement by	Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	81.2	82.1	80.8
10:00 AM - 11:00 AM	81.1	82.0	80.8
11:00 AM - 12:00 PM	80.9	88.3	80.6
12:00 PM - 01:00 PM	80.7	84.7	80.2
01:00 PM - 02:00 PM	80.6	81.3	80.4
02:00 PM - 03:00 PM	80.6	81.1	80.4
03:00 PM - 04:00 PM	80.7	81.6	80.6
04:00 PM - 05:00 PM	80.6	81.3	80.5

Leq Average 8 hrs. (dB(A))  
Lmax (dB(A))  
Standard (dB(A))  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง  
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Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Jan 03, 2024  
Report Number: 2870039-1C8

Page 1 of 1

Sample Number	23131969-28
Parameter	Noise (Leq 8 hrs.)
Location	ไฟฟ้า Gas Turbine 1
Measurement Date	Dec 12, 2023
Measurement by	Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	82.6	83.4	82.3
10:00 AM - 11:00 AM	82.6	83.8	82.4
11:00 AM - 12:00 PM	83.1	87.4	82.5
12:00 PM - 01:00 PM	83.4	89.2	82.8
01:00 PM - 02:00 PM	83.6	84.4	83.3
02:00 PM - 03:00 PM	83.5	84.5	83.2
03:00 PM - 04:00 PM	83.5	84.1	83.3
04:00 PM - 05:00 PM	83.5	84.1	83.3

Leq Average 8 hrs. (dB(A))  
Lmax (dB(A))  
Standard (dB(A))  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง  
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Orawan Rakying  
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Supot Salamteh  
Section Head

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14479-2/ EMAIL







Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Jan 03, 2024

Report Number: 2870048-1C8

Page 1 of 1

Sample Number 23131969-37

Parameter Noise (Leq 8 hrs.)

Location อีฟนา Gas Turbine 2

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	73.0	76.0	72.7
10:00 AM - 11:00 AM	73.0	76.3	72.6
11:00 AM - 12:00 PM	76.1	84.3	72.8
12:00 PM - 01:00 PM	75.6	79.1	74.5
01:00 PM - 02:00 PM	77.1	78.8	76.2
02:00 PM - 03:00 PM	77.4	79.7	76.8
03:00 PM - 04:00 PM	77.2	78.8	76.7
04:00 PM - 05:00 PM	77.9	79.2	77.5

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : มาตรฐานการวัดและประเมินผลเสียงจากเครื่องจักรกลและยานพาหนะ

Standard : มาตรฐานการวัดและประเมินผลเสียงจากเครื่องจักรกลและยานพาหนะ

Technical Management

Orawan Rakying

Scientist (3)

Approved by

Supot Salamteh

Section Head

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Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Jan 03, 2024

Report Number: 2870051-1C8

Page 1 of 1

Sample Number 23131969-40

Parameter Noise (Leq 8 hrs.)

Location อีฟนา Gas Turbine 2

Measurement Date Dec 13, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	76.2	77.7	75.8
10:00 AM - 11:00 AM	76.1	77.5	75.7
11:00 AM - 12:00 PM	76.6	78.3	75.6
12:00 PM - 01:00 PM	76.6	80.0	74.9
01:00 PM - 02:00 PM	77.2	79.7	76.3
02:00 PM - 03:00 PM	77.6	79.5	77.0
03:00 PM - 04:00 PM	77.7	79.7	77.0
04:00 PM - 05:00 PM	77.4	79.1	76.9

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : มาตรฐานการวัดและประเมินผลเสียงจากเครื่องจักรกลและยานพาหนะ

Standard : มาตรฐานการวัดและประเมินผลเสียงจากเครื่องจักรกลและยานพาหนะ

Technical Management

Orawan R.

Orawan Rakying

Scientist (3)

Approved by

Supot Salamteh

Section Head

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P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Jan 03, 2024

Report Number: 2870054-1C8

Page 1 of 1

Sample Number 23131969-43

Parameter Noise (Leq 8 hrs.)

Location อ่างน้ำ Gas Turbine 2

Measurement Date Dec 14, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	73.5	75.6	73.0
10:00 AM - 11:00 AM	73.3	74.7	73.0
11:00 AM - 12:00 PM	73.3	77.0	72.9
12:00 PM - 01:00 PM	76.2	84.3	74.7
01:00 PM - 02:00 PM	76.9	78.6	76.1
02:00 PM - 03:00 PM	77.6	79.8	77.1
03:00 PM - 04:00 PM	77.9	79.7	77.2
04:00 PM - 05:00 PM	78.3	79.5	77.6

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : มาตรฐานการวัดและประเมินผลเสียงจากเครื่องจักรกลและยานพาหนะ

Standard : มาตรฐานการวัดและประเมินผลเสียงจากเครื่องจักรกลและยานพาหนะ

Technical Management

Orawan R.

Orawan Rakying

Scientist (3)

Approved by

Supot Salameh

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P/O : GBL-4210700543

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131969

Date Received : Dec 16, 2023

Date Reported : Jan 03, 2024

Report Number: 2870057-1C8

Page 1 of 1

Sample Number 23131969-46

Parameter Noise (Leq 8 hrs.)

Location อ่างน้ำ Steam Turbine

Measurement Date Dec 12, 2023

Measurement by Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	75.4	76.0	75.2
10:00 AM - 11:00 AM	75.3	75.9	75.2
11:00 AM - 12:00 PM	76.0	78.8	75.3
12:00 PM - 01:00 PM	76.0	79.4	75.6
01:00 PM - 02:00 PM	76.0	76.7	75.9
02:00 PM - 03:00 PM	75.9	76.6	75.7
03:00 PM - 04:00 PM	75.9	76.6	75.8
04:00 PM - 05:00 PM	76.0	88.4	75.8

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : มาตรฐานการวัดและประเมินผลเสียงจากเครื่องจักรกลและยานพาหนะ

Standard : มาตรฐานการวัดและประเมินผลเสียงจากเครื่องจักรกลและยานพาหนะ

Technical Management

Orawan R.

Orawan Rakying

Scientist (3)

Approved by

Supot Salameh

Section Head

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P/O : GBL-4210700543  
Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Jan 03, 2024  
Report Number: 2870060-1C8

Page 1 of 1

Sample Number	23131969-49
Parameter	Noise (Leq 8 hrs.)
Location	ฝักรถ Steam Turbine
Measurement Date	Dec 13, 2023
Measurement by	Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	74.5	83.0	74.0
10:00 AM - 11:00 AM	74.9	75.5	74.8
11:00 AM - 12:00 PM	75.1	77.3	74.6
12:00 PM - 01:00 PM	75.9	78.5	75.1
01:00 PM - 02:00 PM	76.0	76.7	75.8
02:00 PM - 03:00 PM	76.0	76.6	75.8
03:00 PM - 04:00 PM	76.0	76.7	75.8
04:00 PM - 05:00 PM	76.0	78.9	75.9

Leq Average 8 hrs. (dB(A))  
Lmax (dB(A))  
Standard (dB(A))  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง  
ในการประเมินผลกระทบจากโรงงานอุตสาหกรรมต่อสิ่งแวดล้อมในกรณีศึกษา พ.ศ.๒๕๖๖

Orawan R.

Orawan Rakying  
Scientist (3)

Approved by

Supot S.

Supot Salamteh  
Section Head

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P/O : GBL-4210700543  
Project Name : Monitoring EIA  
Project Location : GBL

Lot ID: 23131969  
Date Received : Dec 16, 2023  
Date Reported : Jan 03, 2024  
Report Number: 2870063-1C8

Page 1 of 1

Sample Number	23131969-52
Parameter	Noise (Leq 8 hrs.)
Location	ฝักรถ Steam Turbine
Measurement Date	Dec 14, 2023
Measurement by	Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	75.6	76.5	75.4
10:00 AM - 11:00 AM	76.2	76.9	76.0
11:00 AM - 12:00 PM	76.1	80.6	75.8
12:00 PM - 01:00 PM	76.0	80.0	75.5
01:00 PM - 02:00 PM	76.1	76.7	76.0
02:00 PM - 03:00 PM	76.0	76.7	75.9
03:00 PM - 04:00 PM	76.1	76.9	76.0
04:00 PM - 05:00 PM	76.0	77.8	75.9

Leq Average 8 hrs. (dB(A))  
Lmax (dB(A))  
Standard (dB(A))  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียง  
ในการประเมินผลกระทบจากโรงงานอุตสาหกรรมต่อสิ่งแวดล้อมในกรณีศึกษา พ.ศ.๒๕๖๖

Orawan R.

Orawan Rakying  
Scientist (3)

Approved by

Supot S.

Supot Salamteh  
Section Head

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

**Lot ID: 2374783**  
Date Received : Sep 09, 2023  
Date Reported : Sep 12, 2023  
Report Number: 2735174-1

Page 1 of 5

<b>Sample Number</b>	2374783-1
<b>Parameter</b>	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM )
<b>Measurement Date</b>	Sep 06, 2023
<b>Measurement by</b>	Wasan Treenakul
<b>Location</b>	ปฏิบัติงาน 1 ชั่วโมง (วัด-บนอาคาร ปฏิบัติงาน : - แทน : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บนอาคาร Exhaust Unit	120	27.4	25.0	33.3	32.5
Average (WBGT)		27.4			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

Supot Salamteah  
Section Head

### Approved by

Wichan Choonharat  
Assistant Manager

*Supot S.*

*Wichan Choonharat*

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## Analysis / Test Report

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 2374783**  
Date Received : Sep 09, 2023  
Date Reported : Sep 12, 2023  
Report Number: 2735174-1

Page 2 of 5

<b>Sample Number</b>	2374783-2
<b>Parameter</b>	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM )
<b>Measurement Date</b>	Sep 06, 2023
<b>Measurement by</b>	Wasan Treenakul
<b>Location</b>	ปฏิบัติงาน 1 ชั่วโมง (วัด-บนอาคาร ปฏิบัติงาน : - แทน : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บนอาคาร Exhaust Unit	120	28.8	26.5	34.2	33.8
Average (WBGT)		28.8			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

Supot Salamteah  
Section Head

### Approved by

Wichan Choonharat  
Assistant Manager

*Supot S.*

*Wichan Choonharat*

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

Lot ID: 2374783  
Date Received : Sep 09, 2023  
Date Reported : Sep 12, 2023  
Report Number: 2735174-1

Page 3 of 5

Sample Number	2374783-3
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM )
Measurement Date	Sep 06, 2023
Measurement by	Wasan Treerakul
Location	บริเวณงาน 1 ชั้นใต้ (ใต้-บนอาคาร 8 ชั้น) : - แทน : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Gas Turbine 1	120	31.5	28.8	39.3	35.1
Average (WBGT)		31.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

Supot Salamteah  
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Wichan Choonharat

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

Lot ID: 2374783  
Date Received : Sep 09, 2023  
Date Reported : Sep 12, 2023  
Report Number: 2735174-1

Page 4 of 5

Sample Number	2374783-4
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM )
Measurement Date	Sep 06, 2023
Measurement by	Wasan Treerakul
Location	บริเวณงาน 1 ชั้นใต้ (ใต้-บนอาคาร 8 ชั้น) : - แทน : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Gas Turbine 2	120	29.2	26.1	37.6	34.4
Average (WBGT)		29.2			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

Supot Salamteah  
Section Head

### Approved by

Wichan Choonharat  
Assistant Manager

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Wichan Choonharat

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

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P/O :

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 2374783

Date Received : Sep 09, 2023

Date Reported : Sep 12, 2023

Report Number: 2735174-1

Page 5 of 5

Sample Number	2374783-5
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM )
Measurement Date	Sep 06, 2023
Measurement by	Wasan Treenakul
Location	ปฏิบัติงาน 1 ชั่วโมง (ผ้า-นาฬิกา อุปกรณ์วัด : - แทน : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Steam Turbine	120	32.5	28.0	42.9	42.6
Average (WBGT)		32.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

*Supot S.*

Supot Salameeh  
Section Head

### Approved by

*Wichan Choonharat*

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.

777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160

P/O : 4210701597

Project Name : Monitoring EIA

Project Location : GBL

Lot ID: 23131974

Date Received : Dec 14, 2023

Date Reported : Dec 18, 2023

Report Number: 2833371-1

Page 1 of 5

Sample Number	23131974-1
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Dec 12, 2023
Measurement by	Phongsiri Somkaew
Location	ปฏิบัติงาน 1 ชั่วโมง (ผ้า-นาฬิกา อุปกรณ์วัด : - แทน : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Condenser Exhaust Unit	120	28.7	26.3	34.3	34.2
Average (WBGT)		28.7			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

*Supot S.*

Supot Salameeh  
Section Head

### Approved by

*Wichan Choonharat*

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Assistant Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131974**  
Date Received : Dec 14, 2023  
Date Reported : Dec 18, 2023  
Report Number: 2833371-1

Page 2 of 5

**Sample Number** 23131974-2  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Dec 12, 2023  
**Measurement by** Phongsiri Somkaew  
**Location** บริเวณด้านซ้าย (ด้านหน้าอาคาร คู่มือปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณด้านซ้าย	120	28.9	26.1	35.6	35.4
Average (WBGT)		28.9			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

Supot Salameh  
Section Head

### Approved by

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131974**  
Date Received : Dec 14, 2023  
Date Reported : Dec 18, 2023  
Report Number: 2833371-1

Page 3 of 5

**Sample Number** 23131974-3  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Dec 12, 2023  
**Measurement by** Phongsiri Somkaew  
**Location** บริเวณด้าน 1 ซ้าย (ด้านหน้าอาคาร คู่มือปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Gas Turbine 1	120	28.4	25.9	34.5	33.6
Average (WBGT)		28.4			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131974**  
Date Received : Dec 14, 2023  
Date Reported : Dec 18, 2023  
Report Number: 2833371-1

Page 4 of 5

**Sample Number** 23131974-4  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Dec 12, 2023  
**Measurement by** Phongsiri Somkaew  
**Location** บริเวณทาง 1 ซัด (ด้านหน้าอาคาร) (ตำแหน่ง : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Gas Turbine 2	120	28.1	25.7	33.7	33.3
Average (WBGT)		28.1			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :** 4210701597  
**Project Name :** Monitoring EIA  
**Project Location :** GBL

**Lot ID: 23131974**  
Date Received : Dec 14, 2023  
Date Reported : Dec 18, 2023  
Report Number: 2833371-1

Page 5 of 5

**Sample Number** 23131974-5  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Dec 12, 2023  
**Measurement by** Phongsiri Somkaew  
**Location** บริเวณทาง 1 ซัด (ด้านหน้าอาคาร) (ตำแหน่ง : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Steam Turbine	120	30.6	27.2	38.5	37.5
Average (WBGT)		30.6			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

### Technical Management

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 2374784 (1)**  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2374784 (1)-1  
Project Location: GBL

Page 1 of 2

Lay out No.	Location	Reference Number	Date	GBL		No.	Illuminance (Lux)		Guideline Limit		Comment	
				Time	Spot		Average	Spot/Min	Average			
1	Area : Electrical and Control Building : 1st Floor : Break Out Room	2374784 (1)-1	6-Sep-23	Day time	1	106	109	25	50	Pass		
		2374784 (1)-2	6-Sep-23	Day time	2	112						
		6-Sep-23	Night time	1	52	62	25	50	Pass			
		2374784 (1)-4	6-Sep-23	Night time	2	72						
2	Area : Electrical and Control Building : 1st Floor : Corridor (เก็บของตามจุดต่าง)	2374784 (1)-5	6-Sep-23	Day time	1	616	568	50	100	Pass		
		2374784 (1)-6	6-Sep-23	Day time	2	520						
		2374784 (1)-7	6-Sep-23	Night time	1	430	402	50	100	Pass		
		2374784 (1)-8	6-Sep-23	Night time	2	375						
3	Area : Electrical and Control Building : 1st Floor : Store Room	2374784 (1)-9	6-Sep-23	Day time	1	449	446	50	100	Pass		
		2374784 (1)-10	6-Sep-23	Day time	2	442						
		2374784 (1)-11	6-Sep-23	Night time	1	369	335	50	100	Pass		
		2374784 (1)-12	6-Sep-23	Night time	2	301						
4	Area : Electrical and Control Building : 1st Floor : Switchgear and Electrical Equipment Room Zone ว่าง (ว่าง Control)	2374784 (1)-13	6-Sep-23	Day time	1	225	265	100	200	Pass		
		2374784 (1)-14	6-Sep-23	Day time	2	301						
		2374784 (1)-15	6-Sep-23	Day time	3	217						
		2374784 (1)-16	6-Sep-23	Day time	4	257						
		2374784 (1)-17	6-Sep-23	Day time	5	277						
		2374784 (1)-18	6-Sep-23	Day time	6	262						
		2374784 (1)-19	6-Sep-23	Day time	7	319						
		2374784 (1)-20	6-Sep-23	Night time	1	238	264	100	200	Pass		
		2374784 (1)-21	6-Sep-23	Night time	2	310						
		2374784 (1)-22	6-Sep-23	Night time	3	214						
		2374784 (1)-23	6-Sep-23	Night time	4	257						
		2374784 (1)-24	6-Sep-23	Night time	5	237						
		2374784 (1)-25	6-Sep-23	Night time	6	288						
		2374784 (1)-26	6-Sep-23	Night time	7	301						
		5	Area : Electrical and Control Building : 1st Floor : Switchgear and Electrical Equipment Room (Battery Room)	2374784 (1)-27	6-Sep-23	Day time	1	248	364	100	200	Pass
				2374784 (1)-28	6-Sep-23	Day time	2	480				
2374784 (1)-29	6-Sep-23			Night time	1	245	328	100	200	Pass		
2374784 (1)-30	6-Sep-23			Night time	2	410						

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Technical Management

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 2374784 (1)**  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2374784 (1)-1  
Project Location: GBL

Page 2 of 2

Lay out No.	Location	Reference Number	Date	GBL		No.	Illuminance (Lux)		Guideline Limit		Comment
				Time			Spot	Average	Spot/Min	Average	
6	Area : Electrical and Control Building : 1st Floor : Switchgear and Electrical Equipment Room (wuhg Control)	2374784 (1)-31	6-Sep-23	Day time	1	354	355	100	200	Pass	
		2374784 (1)-32	6-Sep-23	Day time	2	346					
		2374784 (1)-33	6-Sep-23	Day time	3	405					
		2374784 (1)-34	6-Sep-23	Day time	4	340					
		2374784 (1)-35	6-Sep-23	Day time	5	387					
		2374784 (1)-36	6-Sep-23	Day time	6	323					
		2374784 (1)-37	6-Sep-23	Day time	7	331					
		2374784 (1)-38	6-Sep-23	Night time	1	350	355	100	200	Pass	
		2374784 (1)-39	6-Sep-23	Night time	2	331					
		2374784 (1)-40	6-Sep-23	Night time	3	393					
		2374784 (1)-41	6-Sep-23	Night time	4	346					
		2374784 (1)-42	6-Sep-23	Night time	5	388					
		2374784 (1)-43	6-Sep-23	Night time	6	305					
		2374784 (1)-44	6-Sep-23	Night time	7	373					

Measurement by : Phongsit Somkaew

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

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Technical Management

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O :  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2374784 (2)-1  
Project Location: GBL

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O :  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2374784 (2)-1  
Project Location: GBL

Page 1 of 2

Lay out No.	Location	Reference Number	Date	GBL		No.	Time	Illuminance (Lux)	Guideline Limit		Comment
				Spot	Average			Spot	Spot/Min	Average	
1	Area : Electrical and Control Building : 2nd Floor : Break Out Area (ชั้น 2 ทั่วไป)	2374784 (2)-1	6-Sep-23	Day time	1	204	Day time	175	50	100	Pass
		2374784 (2)-2	6-Sep-23	Day time	2	146	Day time	175	50	100	Pass
		2374784 (2)-3	6-Sep-23	Night time	1	190	Night time	175	50	100	Pass
		2374784 (2)-4	6-Sep-23	Night time	2	160	Night time	175	50	100	Pass
6	Area : Electrical and Control Building : 2nd Floor : Lobby Corridor (ทางเดิน ทั่วไป)	2374784 (2)-5	6-Sep-23	Day time	1	170	Day time	129	50	100	Pass
		2374784 (2)-6	6-Sep-23	Day time	2	123	Day time	129	50	100	Pass
		2374784 (2)-7	6-Sep-23	Day time	3	146	Day time	129	50	100	Pass
		2374784 (2)-8	6-Sep-23	Day time	4	121	Day time	129	50	100	Pass
		2374784 (2)-9	6-Sep-23	Day time	5	130	Day time	129	50	100	Pass
		2374784 (2)-10	6-Sep-23	Day time	6	102	Day time	129	50	100	Pass
		2374784 (2)-11	6-Sep-23	Day time	7	108	Day time	129	50	100	Pass
		2374784 (2)-12	6-Sep-23	Night time	1	139	Night time	118	50	100	Pass
		2374784 (2)-13	6-Sep-23	Night time	2	112	Night time	118	50	100	Pass
		2374784 (2)-14	6-Sep-23	Night time	3	125	Night time	118	50	100	Pass
		2374784 (2)-15	6-Sep-23	Night time	4	120	Night time	118	50	100	Pass
		2374784 (2)-16	6-Sep-23	Night time	5	121	Night time	118	50	100	Pass
7	Area : Electrical and Control Building : 2nd Floor : Men Toilet	2374784 (2)-17	6-Sep-23	Night time	6	106	Night time	118	50	100	Pass
		2374784 (2)-18	6-Sep-23	Night time	7	103	Night time	118	50	100	Pass
		2374784 (2)-19	6-Sep-23	Day time	1	443	Day time	412	50	100	Pass
		2374784 (2)-20	6-Sep-23	Day time	2	471	Day time	412	50	100	Pass
8	Area : Electrical and Control Building : 2nd Floor : Operation Manager	2374784 (2)-21	6-Sep-23	Day time	3	271	Day time	412	50	100	Pass
		2374784 (2)-22	6-Sep-23	Day time	4	461	Day time	412	50	100	Pass
		2374784 (2)-23	6-Sep-23	Night time	1	426	Night time	397	50	100	Pass
		2374784 (2)-24	6-Sep-23	Night time	2	443	Night time	397	50	100	Pass
9	Area : Electrical and Control Building : 2nd Floor : Pantry	2374784 (2)-25	6-Sep-23	Night time	3	259	Night time	397	50	100	Pass
		2374784 (2)-26	6-Sep-23	Night time	4	459	Night time	397	50	100	Pass
		2374784 (2)-27	6-Sep-23	Day time	1	413	Day time	349	150	300	Pass
		2374784 (2)-28	6-Sep-23	Night time	1	412	Night time	349	150	300	Pass
10	Area : Electrical and Control Building : 2nd Floor : Shift Day Time 2	2374784 (2)-29	6-Sep-23	Day time	1	385	Day time	314	150	300	Pass
		2374784 (2)-30	6-Sep-23	Day time	2	292	Day time	314	150	300	Pass
		2374784 (2)-31	6-Sep-23	Day time	3	328	Day time	314	150	300	Pass
		2374784 (2)-32	6-Sep-23	Day time	4	391	Day time	314	150	300	Pass
		2374784 (2)-33	6-Sep-23	Night time	1	371	Night time	314	150	300	Pass
		2374784 (2)-34	6-Sep-23	Night time	2	165	Night time	314	150	300	Pass
		2374784 (2)-35	6-Sep-23	Night time	3	349	Night time	314	150	300	Pass
		2374784 (2)-36	6-Sep-23	Night time	4	372	Night time	314	150	300	Pass
		2374784 (2)-37	6-Sep-23	Day time	1	538	Day time	400-500	-	-	Pass
		2374784 (2)-38	6-Sep-23	Night time	1	414	Night time	400-500	-	-	Pass
		2374784 (2)-39	6-Sep-23	Day time	1	545	Day time	400-500	-	-	Pass
		2374784 (2)-40	6-Sep-23	Night time	1	402	Night time	400-500	-	-	Pass
11	Area : Electrical and Control Building : 2nd Floor : Shift Day Time 1	2374784 (2)-41	6-Sep-23	Day time	1	151	Day time	392	50	100	Pass
		2374784 (2)-42	6-Sep-23	Day time	2	343	Day time	392	50	100	Pass
		2374784 (2)-43	6-Sep-23	Day time	3	683	Day time	392	50	100	Pass
		2374784 (2)-44	6-Sep-23	Night time	1	117	Night time	122	50	100	Pass
12	Area : Electrical and Control Building : 2nd Floor : Utility Room	2374784 (2)-45	6-Sep-23	Night time	2	102	Night time	122	50	100	Pass
		2374784 (2)-46	6-Sep-23	Night time	3	148	Night time	122	50	100	Pass
		2374784 (2)-47	6-Sep-23	Day time	1	213	Day time	210	100	200	Pass
		2374784 (2)-48	6-Sep-23	Day time	2	208	Day time	210	100	200	Pass
13	Area : Electrical and Control Building : 2nd Floor : Women Toilet	2374784 (2)-49	6-Sep-23	Night time	1	215	Night time	210	100	200	Pass
		2374784 (2)-50	6-Sep-23	Night time	2	205	Night time	210	100	200	Pass
		2374784 (2)-51	6-Sep-23	Day time	1	282	Day time	343	50	100	Pass
		2374784 (2)-52	6-Sep-23	Day time	2	404	Day time	343	50	100	Pass
14	Area : Electrical and Control Building : 2nd Floor : Shift Day Time 2	2374784 (2)-53	6-Sep-23	Night time	1	249	Night time	325	50	100	Pass
		2374784 (2)-54	6-Sep-23	Night time	2	401	Night time	325	50	100	Pass
		2374784 (2)-55	6-Sep-23	Day time	1	282	Day time	343	50	100	Pass
		2374784 (2)-56	6-Sep-23	Day time	2	404	Day time	343	50	100	Pass

Measurement by : Phongsin Somkiew

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O :  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2374784 (2)-1  
Project Location: GBL

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O :  
Date Received : Sep 08, 2023  
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Project Name : Monitoring EIA  
Report Number: 2374784 (2)-1  
Project Location: GBL

Page 2 of 2

Lay out No.	Location	Reference Number	Date	GBL		No.	Time	Illuminance (Lux)	Guideline Limit		Comment
				Spot	Average			Spot	Spot/Min	Average	
10	Spot : Electrical and Control Building : 2nd Floor : Shift Day Time 2	2374784 (2)-37	6-Sep-23	Day time	1	538	Day time	400-500	-	-	Pass
		2374784 (2)-38	6-Sep-23	Night time	1	414	Night time	400-500	-	-	Pass
		2374784 (2)-39	6-Sep-23	Day time	1	545	Day time	400-500	-	-	Pass
		2374784 (2)-40	6-Sep-23	Night time	1	402	Night time	400-500	-	-	Pass
15	Area : Electrical and Control Building : 2nd Floor : Up-down Main Way (Stair)	2374784 (2)-41	6-Sep-23	Day time	1	151	Day time	392	50	100	Pass
		2374784 (2)-42	6-Sep-23	Day time	2	343	Day time	392	50	100	Pass
		2374784 (2)-43	6-Sep-23	Day time	3	683	Day time	392	50	100	Pass
		2374784 (2)-44	6-Sep-23	Night time	1	117	Night time	122	50	100	Pass
16	Area : Electrical and Control Building : 2nd Floor : Utility Room	2374784 (2)-45	6-Sep-23	Night time	2	102	Night time	122	50	100	Pass
		2374784 (2)-46	6-Sep-23	Night time	3	148	Night time	122	50	100	Pass
		2374784 (2)-47	6-Sep-23	Day time	1	213	Day time	210	100	200	Pass
		2374784 (2)-48	6-Sep-23	Day time	2	208	Day time	210	100	200	Pass
17	Area : Electrical and Control Building : 2nd Floor : Women Toilet	2374784 (2)-49	6-Sep-23	Night time	1	215	Night time	210	100	200	Pass
		2374784 (2)-50	6-Sep-23	Night time	2	205	Night time	210	100	200	Pass
		2374784 (2)-51	6-Sep-23	Day time	1	282	Day time	343	50	100	Pass
		2374784 (2)-52	6-Sep-23	Day time	2	404	Day time	343	50	100	Pass
18	Area : Electrical and Control Building : 2nd Floor : Shift Day Time 2	2374784 (2)-53	6-Sep-23	Night time	1	249	Night time	325	50	100	Pass
		2374784 (2)-54	6-Sep-23	Night time	2	401	Night time	325	50	100	Pass
		2374784 (2)-55	6-Sep-23	Day time	1	282	Day time	343	50	100	Pass
		2374784 (2)-56	6-Sep-23	Day time	2	404	Day time	343	50	100	Pass

Measurement by : Phongsin Somkiew

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot Salameh  
Section Head

Approved by

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 2374784 (3)**  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2374784 (3)-1  
Project Location: GBL

Page 1 of 3

Lay out No.	Location	Reference Number	Date	GBL		Illuminance (Lux)	Guideline Limit		Comment
				Time	No.	Spot Average	Spot/Min	Average	
2	Spot : Electrical and Control Building : 3rd Floor : Admin Helper 2	2374784 (3)-1 2374784 (3)-2	6-Sep-23 6-Sep-23	Day time Night time	1 1	465 413	- -	400-500 400-500	Pass Pass
3	Spot : Electrical and Control Building : 3rd Floor : Admin Manager	2374784 (3)-3 2374784 (3)-4	6-Sep-23 6-Sep-23	Day time Night time	1 1	426 404	- -	400-500 400-500	Pass Pass
4	Area : Electrical and Control Building : 3rd Floor : Copy Room	2374784 (3)-5 2374784 (3)-6 2374784 (3)-7 2374784 (3)-8	6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23	Day time Day time Night time Night time	1 2 1 2	437 371 395 365	404 150 380 150	300 300	Pass Pass
5	Area : Electrical and Control Building : 3rd Floor : Corridor (หน้าลิฟท์หน้าห้อง)	2374784 (3)-9 2374784 (3)-10 2374784 (3)-11 2374784 (3)-12 2374784 (3)-13 2374784 (3)-14 2374784 (3)-15 2374784 (3)-16 2374784 (3)-17 2374784 (3)-18 2374784 (3)-19 2374784 (3)-20 2374784 (3)-21 2374784 (3)-22	6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23	Day time Day time Day time Day time Day time Day time Day time Day time Night time Night time Night time Night time Night time Night time Night time	1 2 3 4 5 6 7 1 2 3 4 5 6 7	162 137 126 124 140 149 129 141 114 124 104 104 125 124	138 50	100	Pass
6	Area : Electrical and Control Building : 3rd Floor : Document Room	2374784 (3)-23 2374784 (3)-24 2374784 (3)-25 2374784 (3)-26	6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23	Day time Day time Night time Night time	1 2 1 2	365 369 306 342	367 150 324 150	300 300	Pass Pass
7	Spot : Electrical and Control Building : 3rd Floor : EHS Manager	2374784 (3)-27 2374784 (3)-28	6-Sep-23 6-Sep-23	Day time Night time	1 1	428 424	- -	400-500 400-500	Pass Pass
8	Spot : Electrical and Control Building : 3rd Floor : Electrical Engineer 1	2374784 (3)-29 2374784 (3)-30	6-Sep-23 6-Sep-23	Day time Night time	1 1	422 403	- -	400-500 400-500	Pass Pass
9	Spot : Electrical and Control Building : 3rd Floor : Electrical Engineer 2	2374784 (3)-31 2374784 (3)-32	6-Sep-23 6-Sep-23	Day time Night time	1 1	462 458	- -	400-500 400-500	Pass Pass
10	Spot : Electrical and Control Building : 3rd Floor : Electrical Leader	2374784 (3)-33 2374784 (3)-34	6-Sep-23 6-Sep-23	Day time Night time	1 1	436 412	- -	400-500 400-500	Pass Pass

Technical Management  
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## Analysis / Test Report

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 2374784 (3)**  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2374784 (3)-1  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	GBL		Illuminance (Lux)	Guideline Limit		Comment
				Time	No.	Spot Average	Spot/Min	Average	
11	Spot : Electrical and Control Building : 3rd Floor : Helper	2374784 (3)-35 2374784 (3)-36	6-Sep-23 6-Sep-23	Day time Night time	1 1	427 414	- -	400-500 400-500	Pass Pass
12	Spot : Electrical and Control Building : 3rd Floor : I&C Leader	2374784 (3)-37 2374784 (3)-38	6-Sep-23 6-Sep-23	Day time Night time	1 1	416 412	- -	400-500 400-500	Pass Pass
13	Spot : Electrical and Control Building : 3rd Floor : I&C Engineer 1	2374784 (3)-39 2374784 (3)-40	6-Sep-23 6-Sep-23	Day time Night time	1 1	421 420	- -	400-500 400-500	Pass Pass
14	Spot : Electrical and Control Building : 3rd Floor : I&C Engineer 2	2374784 (3)-41 2374784 (3)-42	6-Sep-23 6-Sep-23	Day time Night time	1 1	409 402	- -	400-500 400-500	Pass Pass
16	Spot : Electrical and Control Building : 3rd Floor : Mechanical Engineer 1	2374784 (3)-43 2374784 (3)-44	6-Sep-23 6-Sep-23	Day time Night time	1 1	408 410	- -	400-500 400-500	Pass Pass
17	Spot : Electrical and Control Building : 3rd Floor : Mechanical Engineer 2	2374784 (3)-45 2374784 (3)-46	6-Sep-23 6-Sep-23	Day time Night time	1 1	414 408	- -	400-500 400-500	Pass Pass
18	Spot : Electrical and Control Building : 3rd Floor : Mechanical Leader	2374784 (3)-47 2374784 (3)-48	6-Sep-23 6-Sep-23	Day time Night time	1 1	407 407	- -	400-500 400-500	Pass Pass
19	Spot : Electrical and Control Building : 3rd Floor : Maintenance Manager	2374784 (3)-49 2374784 (3)-50	6-Sep-23 6-Sep-23	Day time Night time	1 1	407 406	- -	400-500 400-500	Pass Pass
20	Area : Electrical and Control Building : 3rd Floor : Men Toilet	2374784 (3)-51 2374784 (3)-52 2374784 (3)-53 2374784 (3)-54	6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23	Day time Day time Night time Night time	1 2 1 2	488 506 425 481	497 50 453 150	100 100	Pass Pass
21	Area : Electrical and Control Building : 3rd Floor : Meeting Room 1	2374784 (3)-55 2374784 (3)-56 2374784 (3)-57 2374784 (3)-58 2374784 (3)-59 2374784 (3)-60 2374784 (3)-61 2374784 (3)-62 2374784 (3)-63 2374784 (3)-64 2374784 (3)-65 2374784 (3)-66	6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23 6-Sep-23	Day time Day time Day time Day time Day time Day time Night time Night time Night time Night time Night time Night time	1 2 3 4 5 6 1 2 3 4 5 6	736 641 224 233 413 367 314 440 235 237 408 367	436 150	300	Pass

Technical Management  
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## Analysis / Test Report

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
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**Project Name :** Monitoring EIA  
**Project Location:** GBL

**Lot ID: 2374784 (3)**  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Report Number: 2374784 (3)-1

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
22	Area : Electrical and Control Building : 3rd Floor : Pantry&Canteen	2374784 (3)-67	6-Sep-23	Day time	1	583	474	150	300	Pass
		2374784 (3)-68	6-Sep-23	Day time	2	365				
		2374784 (3)-69	6-Sep-23	Night time	1	318	325	150	300	Pass
		2374784 (3)-70	6-Sep-23	Night time	2	332				
23	Spot : Electrical and Control Building : 3rd Floor : Plant Manager	2374784 (3)-71	6-Sep-23	Day time	1	403	-	400-500	-	Pass
		2374784 (3)-72	6-Sep-23	Night time	1	403	-	400-500	-	Pass
24	Spot : Electrical and Control Building : 3rd Floor : Purchase	2374784 (3)-73	6-Sep-23	Day time	1	401	-	400-500	-	Pass
		2374784 (3)-74	6-Sep-23	Night time	1	403	-	400-500	-	Pass
25	Area : Electrical and Control Building : 3rd Floor : Server Room	2374784 (3)-75	6-Sep-23	Day time	1	263	277	100	200	Pass
		2374784 (3)-76	6-Sep-23	Day time	2	291				
26	Area : Electrical and Control Building : 3rd Floor : Storage Room	2374784 (3)-77	6-Sep-23	Day time	1	128	121	50	100	Pass
		2374784 (3)-78	6-Sep-23	Day time	2	114				
		2374784 (3)-79	6-Sep-23	Night time	1	112	106	50	100	Pass
		2374784 (3)-80	6-Sep-23	Night time	2	100				
27	Area : Electrical and Control Building : 3rd Floor : Updown Main Way (Stair)	2374784 (3)-81	6-Sep-23	Day time	1	127	247	50	100	Pass
		2374784 (3)-82	6-Sep-23	Day time	2	143				
		2374784 (3)-83	6-Sep-23	Day time	3	471	101	50	100	Pass
		2374784 (3)-84	6-Sep-23	Night time	1	101				
28	Spot : Electrical and Control Building : 3rd Floor : Warehouse	2374784 (3)-85	6-Sep-23	Night time	2	100				
		2374784 (3)-86	6-Sep-23	Night time	3	103				
29	Area : Electrical and Control Building : 3rd Floor : Women Toilet	2374784 (3)-87	6-Sep-23	Day time	1	404	-	400-500	-	Pass
		2374784 (3)-88	6-Sep-23	Night time	1	401	-	400-500	-	Pass
29	Area : Electrical and Control Building : 3rd Floor : Women Toilet	2374784 (3)-89	6-Sep-23	Day time	1	480	520	50	100	Pass
		2374784 (3)-90	6-Sep-23	Day time	2	559				
		2374784 (3)-91	6-Sep-23	Night time	1	404	456	50	100	Pass
		2374784 (3)-92	6-Sep-23	Night time	2	507				

**Measurement by :** Phongsiri Somkaew  
**Guideline :** Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

**Technical Management**  
Supot Salameh  
Section Head

**Approved by**  
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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location:** GBL

**Lot ID: 2374784 (4)**  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Report Number: 2374784 (4)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : GIS Building : 115 Kv (switching Control)	2374784 (4)-1	6-Sep-23	Day time	1	359	348	100	200	Pass
		2374784 (4)-2	6-Sep-23	Day time	2	328				
		2374784 (4)-3	6-Sep-23	Day time	3	323				
		2374784 (4)-4	6-Sep-23	Day time	4	211				
		2374784 (4)-5	6-Sep-23	Day time	5	419				
		2374784 (4)-6	6-Sep-23	Day time	6	450				
2	Area : GIS Building : 22 Kv Switch Gear Room (switching Control)	2374784 (4)-7	6-Sep-23	Day time	1	355	345	100	200	Pass
		2374784 (4)-8	6-Sep-23	Night time	1	303				
		2374784 (4)-9	6-Sep-23	Night time	2	331				
		2374784 (4)-10	6-Sep-23	Night time	3	420				
		2374784 (4)-11	6-Sep-23	Night time	4	453				
		2374784 (4)-12	6-Sep-23	Night time	5	453				
2	Area : GIS Building : 22 Kv Switch Gear Room (switching Control)	2374784 (4)-13	6-Sep-23	Day time	1	492	528	100	200	Pass
		2374784 (4)-14	6-Sep-23	Day time	2	697				
		2374784 (4)-15	6-Sep-23	Day time	3	396				
		2374784 (4)-16	6-Sep-23	Night time	1	493	501	100	200	Pass
		2374784 (4)-17	6-Sep-23	Night time	2	630				
		2374784 (4)-18	6-Sep-23	Night time	3	380				
3	Area : GIS Building : Switchyard Control Room (switching Control)	2374784 (4)-19	6-Sep-23	Day time	1	258	268	100	200	Pass
		2374784 (4)-20	6-Sep-23	Day time	2	212				
		2374784 (4)-21	6-Sep-23	Day time	3	335				
		2374784 (4)-22	6-Sep-23	Night time	1	233	253	100	200	Pass
		2374784 (4)-23	6-Sep-23	Night time	2	214				
		2374784 (4)-24	6-Sep-23	Night time	3	312				
4	Area : GIS Building : Switchyard Control Room (Battery Room)	2374784 (4)-25	6-Sep-23	Day time	1	254	258	100	200	Pass
		2374784 (4)-26	6-Sep-23	Day time	2	262				
		2374784 (4)-27	6-Sep-23	Night time	1	241	251	100	200	Pass
		2374784 (4)-28	6-Sep-23	Night time	2	261				
		2374784 (4)-29	6-Sep-23	Day time	1	406	415	100	200	Pass
		2374784 (4)-30	6-Sep-23	Day time	2	441				
5	Area : GIS Building : Terminal Sub Control Room (switching Control)	2374784 (4)-31	6-Sep-23	Day time	3	399				
		2374784 (4)-32	6-Sep-23	Night time	1	405	412	100	200	Pass
		2374784 (4)-33	6-Sep-23	Night time	2	441				
		2374784 (4)-34	6-Sep-23	Night time	3	389				

**Technical Management**  
Supot Salameh  
Section Head

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Assistant Manager

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## Analysis / Test Report

**Client :** Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location:** GBL

**Lot ID: 2374784 (4)**  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Report Number: 2374784 (4)-1

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Lay out No.	Location	Reference Number	Date	GBL		Illuminance (Lux)	Guideline Limit		Comment	
				Time	No.		Spot	Average		Spot/Min
6	Area : GIS Building : Terminal Sub Control Room (Battery Room)	2374784 (4)-35	6-Sep-23	Day time	1	395	392	100	200	Pass
		2374784 (4)-36	6-Sep-23	Day time	2	388				
		2374784 (4)-37	6-Sep-23	Night time	1	390	384	100	200	Pass
		2374784 (4)-38	6-Sep-23	Night time	2	377				

**Measurement by :** Phongsiri Somkaew  
**Guideline :** Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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## Analysis / Test Report

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location:** GBL

**Lot ID: 2374784 (5)**  
Date Received : Sep 08, 2023  
Date Reported : Sep 18, 2023  
Report Number: 2374784 (5)-1

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Lay out No.	Location	Reference Number	Date	GBL		Illuminance (Lux)	Guideline Limit		Comment	
				Time	No.		Average	Spot/Min		
1	Spot : 1000 รพ. : 1000000	2374784 (5)-1	6-Sep-23	Day time	1	670	-	400-500	-	Pass
		2374784 (5)-2	6-Sep-23	Night time	1	401	-	400-500	-	Pass

**Measurement by :** Phongsiri Somkaew  
**Guideline :** Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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## Analysis / Test Report

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O :  
Date Received : Sep 09, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2391820 (7)-1 C1  
Project Location: GBL

Page 1 of 3

Lay out No.	Location	Reference Number	Date	GBL		Illuminance (Lux)	Guideline Limit		Comment
				Time	No.	Spot Average	Spot/Min	Average	
1	Spot : Workshop First Floor : C&I Engineer #1	2391820 (7)-1 2391820 (7)-2	7-Sep-23 7-Sep-23	Day time Night time	1 1	400 401	- -	400-500 -	Pass Pass
2	Spot : Workshop First Floor : C&I Engineer #1.1	2391820 (7)-3 2391820 (7)-4	7-Sep-23 7-Sep-23	Day time Night time	1 1	413 432	- -	400-500 -	Pass Pass
3	Spot : Workshop First Floor : C&I Helper	2391820 (7)-5 2391820 (7)-6	7-Sep-23 7-Sep-23	Day time Night time	1 1	502 472	- -	400-500 -	Pass Pass
4	Spot : Workshop First Floor : C&I Leader	2391820 (7)-7 2391820 (7)-8	7-Sep-23 7-Sep-23	Day time Night time	1 1	408 402	- -	400-500 -	Pass Pass
5	Area : Workshop First Floor : Canteen & Pantry (ร้านอาหาร)	2391820 (7)-9 2391820 (7)-10 2391820 (7)-11 2391820 (7)-12	7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23	Day time Day time Night time Night time	1 2 1 2	519 697 513 655	608 594	150 300 150 300	Pass Pass Pass Pass
6	Area : Workshop First Floor : Copy Room	2391820 (7)-13 2391820 (7)-14 2391820 (7)-15 2391820 (7)-16	7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23	Day time Day time Night time Night time	1 2 1 2	412 601 374 602	506 488	150 300 150 300	Pass Pass Pass Pass
7	Area : Workshop First Floor : Corridor	2391820 (7)-17 2391820 (7)-18 2391820 (7)-19 2391820 (7)-20 2391820 (7)-21 2391820 (7)-22 2391820 (7)-23 2391820 (7)-24	7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23	Day time Day time Day time Day time Night time Night time Night time Night time	1 2 3 4 1 2 3 4	395 344 400 362 345 315 353 370	375	50 100	Pass Pass Pass Pass Pass Pass Pass Pass
8	Area : Workshop First Floor : Document Room	2391820 (7)-25 2391820 (7)-26 2391820 (7)-27 2391820 (7)-28	7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23	Day time Day time Night time Night time	1 2 1 2	1,911 143 334 283	1027 308	150 300 150 300	Pass Pass Pass Pass
9	Spot : Workshop First Floor : MM Engineer #2	2391820 (7)-29 2391820 (7)-30	7-Sep-23 7-Sep-23	Day time Night time	1 1	402 401	- -	400-500 -	Pass Pass

Technical Management  
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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
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Report Number: 2391820 (7)-1 C1  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	GBL		Illuminance (Lux)	Guideline Limit		Comment
				Time	No.	Spot Average	Spot/Min	Average	
10	Area : Workshop First Floor : Meeting Room	2391820 (7)-31 2391820 (7)-32 2391820 (7)-33 2391820 (7)-34 2391820 (7)-35 2391820 (7)-36 2391820 (7)-37 2391820 (7)-38 2391820 (7)-39 2391820 (7)-40 2391820 (7)-41 2391820 (7)-42	7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23	Day time Day time Day time Day time Day time Day time Night time Night time Night time Night time Night time Night time	1 2 3 4 5 6 1 2 3 4 5 6	596 505 392 305 437 390 540 432 392 308 414 387	438	150 300	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
11	Spot : Workshop First Floor : MM Engineer #1	2391820 (7)-43 2391820 (7)-44	7-Sep-23 7-Sep-23	Day time Night time	1 1	405 404	- -	400-500 -	Pass Pass
12	Spot : Workshop First Floor : MM Leader	2391820 (7)-45 2391820 (7)-46	7-Sep-23 7-Sep-23	Day time Night time	1 1	419 401	- -	400-500 -	Pass Pass
13	Spot : Workshop First Floor : IT Office	2391820 (7)-47 2391820 (7)-48	7-Sep-23 7-Sep-23	Day time Night time	1 1	421 419	- -	400-500 -	Pass Pass
14	Area : Workshop First Floor : Restroom : Female	2391820 (7)-49 2391820 (7)-50 2391820 (7)-51 2391820 (7)-52	7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23	Day time Day time Night time Night time	1 2 1 2	102 106 108 115	104 112	50 100	Pass Pass Pass Pass
15	Area : Workshop First Floor : Restroom : Male	2391820 (7)-53 2391820 (7)-54 2391820 (7)-55 2391820 (7)-56 2391820 (7)-57 2391820 (7)-58 2391820 (7)-59 2391820 (7)-60	7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23 7-Sep-23	Day time Day time Day time Day time Night time Night time Night time Night time	1 2 3 4 1 2 3 4	410 362 422 325 412 240 412 312	380	50 100	Pass Pass Pass Pass Pass Pass Pass Pass
16	Spot : Workshop First Floor : Electrical Engineering #1	2391820 (7)-61 2391820 (7)-62	7-Sep-23 7-Sep-23	Day time Night time	1 1	406 406	- -	400-500 -	Pass Pass
17	Spot : Workshop First Floor : Electrical Engineering #2	2391820 (7)-63 2391820 (7)-64	7-Sep-23 7-Sep-23	Day time Night time	1 1	486 409	- -	400-500 -	Pass Pass

Technical Management  
Supot Salameh  
Section Head

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Wichan Choonharat  
Assistant Manager

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ALS LABORATORY GROUP (THAILAND) CO., LTD. AN ALS Limited Company





## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 2391820 (7)**  
Date Received : Sep 09, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2391820 (7)-1 CI  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
18	Spot : Workshop First Floor : Electrical Helper	2391820 (7)-65	7-Sep-23	Day time	1	421	-	400-500	-	Pass
		2391820 (7)-66	7-Sep-23	Night time	1	420	-	400-500	-	Pass
19	Spot : Workshop First Floor : Electrical Leader	2391820 (7)-67	7-Sep-23	Day time	1	410	-	400-500	-	Pass
		2391820 (7)-68	7-Sep-23	Night time	1	406	-	400-500	-	Pass
20	Spot : Workshop First Floor : Maintenance Manager	2391820 (7)-69	7-Sep-23	Day time	1	426	-	400-500	-	Pass
		2391820 (7)-70	7-Sep-23	Night time	1	410	-	400-500	-	Pass

Measurement by : Phongsiri Somkaew  
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management  
Supot Salanteh  
Section Head

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Assistant Manager

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 2391820 (8)**  
Date Received : Sep 09, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2391820 (8)-1 CI  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Workshop Ground Floor : C&I Workshop	2391820 (8)-1	7-Sep-23	Day time	1	278	300	100	200	Pass
		2391820 (8)-2	7-Sep-23	Day time	2	316				
		2391820 (8)-3	7-Sep-23	Day time	3	299				
		2391820 (8)-4	7-Sep-23	Day time	4	308				
		2391820 (8)-5	7-Sep-23	Night time	1	293	300	100	200	Pass
		2391820 (8)-6	7-Sep-23	Night time	2	306				
		2391820 (8)-7	7-Sep-23	Night time	3	300				
		2391820 (8)-8	7-Sep-23	Night time	4	301				
2	Area : Workshop Ground Floor : Corridor (โซนทำงานกลางห้องผลิตยา)	2391820 (8)-9	7-Sep-23	Day time	1	160	297	50	100	Pass
		2391820 (8)-10	7-Sep-23	Day time	2	133				
		2391820 (8)-11	7-Sep-23	Day time	3	159				
		2391820 (8)-12	7-Sep-23	Day time	4	586				
		2391820 (8)-13	7-Sep-23	Day time	5	274				
		2391820 (8)-14	7-Sep-23	Day time	6	271				
		2391820 (8)-15	7-Sep-23	Day time	7	495				
		2391820 (8)-16	7-Sep-23	Night time	1	203	267	50	100	Pass
		2391820 (8)-17	7-Sep-23	Night time	2	144				
		2391820 (8)-18	7-Sep-23	Night time	3	130				
		2391820 (8)-19	7-Sep-23	Night time	4	426				
		2391820 (8)-20	7-Sep-23	Night time	5	277				
		2391820 (8)-21	7-Sep-23	Night time	6	245				
		2391820 (8)-22	7-Sep-23	Night time	7	441				

Technical Management  
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Assistant Manager

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O :  
Date Received : Sep 09, 2023  
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Project Name : Monitoring EIA  
Report Number: 2391820 (8)-1 CI  
Project Location: GBL

Lot ID: 2391820 (8)

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Lay out No.	Location	Reference Number	Date	Time	No.	GBL		Illuminance (Lux)	Guideline Limit		Comment
						Spot	Average		Spot/Min	Average	
3	Area : Workshop Ground Floor : Mechanical and Electrical Workshop	2391820 (8)-23	7-Sep-23	Day time	1	375	418	150	300	Pass	Pass
		2391820 (8)-24	7-Sep-23	Day time	2	434					
		2391820 (8)-25	7-Sep-23	Day time	3	554					
		2391820 (8)-26	7-Sep-23	Day time	4	431					
		2391820 (8)-27	7-Sep-23	Day time	5	416					
		2391820 (8)-28	7-Sep-23	Day time	6	425					
		2391820 (8)-29	7-Sep-23	Day time	7	302					
		2391820 (8)-30	7-Sep-23	Day time	8	406					
		2391820 (8)-31	7-Sep-23	Day time	9	415					
		2391820 (8)-32	7-Sep-23	Night time	1	302	322	150	300	Pass	
		2391820 (8)-33	7-Sep-23	Night time	2	322					
		2391820 (8)-34	7-Sep-23	Night time	3	314					
4	Area : Workshop Ground Floor : Restroom : Female	2391820 (8)-35	7-Sep-23	Night time	4	304					Pass
		2391820 (8)-36	7-Sep-23	Night time	5	309					
		2391820 (8)-37	7-Sep-23	Night time	6	251					
		2391820 (8)-38	7-Sep-23	Night time	7	340					
		2391820 (8)-39	7-Sep-23	Night time	8	362					
		2391820 (8)-40	7-Sep-23	Night time	9	397					
		2391820 (8)-41	7-Sep-23	Day time	1	407	425	50	100	Pass	
		2391820 (8)-42	7-Sep-23	Day time	2	443					
		2391820 (8)-43	7-Sep-23	Night time	1	396	356	50	100	Pass	
		2391820 (8)-44	7-Sep-23	Night time	2	317					
		2391820 (8)-45	7-Sep-23	Day time	1	335	284	50	100	Pass	
		2391820 (8)-46	7-Sep-23	Day time	2	232					
5	Area : Workshop Ground Floor : Restroom : Male	2391820 (8)-47	7-Sep-23	Night time	1	332	278	50	100	Pass	Pass
		2391820 (8)-48	7-Sep-23	Night time	2	224					
		2391820 (8)-49	7-Sep-23	Day time	1	282	284	100	200	Pass	
6	Area : Workshop Ground Floor : Server Room	2391820 (8)-50	7-Sep-23	Day time	2	287	258	100	200	Pass	Pass
		2391820 (8)-51	7-Sep-23	Night time	1	278					
		2391820 (8)-52	7-Sep-23	Night time	2	238					
7	Area : Workshop Ground Floor : Stair	2391820 (8)-53	7-Sep-23	Day time	1	176	128	50	100	Pass	Pass
		2391820 (8)-54	7-Sep-23	Day time	2	104					
		2391820 (8)-55	7-Sep-23	Day time	3	105					
		2391820 (8)-56	7-Sep-23	Night time	1	164	118	50	100	Pass	
		2391820 (8)-57	7-Sep-23	Night time	2	102					
		2391820 (8)-58	7-Sep-23	Night time	3	88					

Technical Management  
Supot Salameh  
Section Head

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Wichan Choonharat  
Assistant Manager

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ALS LABORATORY GROUP (THAILAND) CO., LTD. AN ALS Limited Company



### Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O :  
Date Received : Sep 09, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2391820 (8)-1 CI  
Project Location: GBL

Lot ID: 2391820 (8)

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Lay out No.	Location	Reference Number	Date	Time	No.	GBL		Illuminance (Lux)	Guideline Limit		Comment
						Spot	Average		Spot/Min	Average	
8	Area : Workshop Ground Floor : Tool Room	2391820 (8)-59	7-Sep-23	Day time	1	195	213	50	100	Pass	Pass
		2391820 (8)-60	7-Sep-23	Day time	2	155					
		2391820 (8)-61	7-Sep-23	Day time	3	308					
		2391820 (8)-62	7-Sep-23	Day time	4	209					
		2391820 (8)-63	7-Sep-23	Day time	5	207					
		2391820 (8)-64	7-Sep-23	Day time	6	202					
		2391820 (8)-65	7-Sep-23	Day time	1	193	208	50	100	Pass	
		2391820 (8)-66	7-Sep-23	Night time	2	150					
		2391820 (8)-67	7-Sep-23	Night time	3	301					
		2391820 (8)-68	7-Sep-23	Night time	4	205					
		2391820 (8)-69	7-Sep-23	Night time	5	201					
		2391820 (8)-70	7-Sep-23	Night time	6	200					
9	Area : Workshop Ground Floor : Unsecured Heavy/Bulky Equipment Storage (Zone 1st/2nd)	2391820 (8)-71	7-Sep-23	Day time	1	203	1384	50	100	Pass	Pass
		2391820 (8)-72	7-Sep-23	Day time	2	1,363					
		2391820 (8)-73	7-Sep-23	Day time	3	2,110					
		2391820 (8)-74	7-Sep-23	Day time	4	4,320					
		2391820 (8)-75	7-Sep-23	Day time	5	794					
		2391820 (8)-76	7-Sep-23	Day time	6	985					
		2391820 (8)-77	7-Sep-23	Day time	7	813					
		2391820 (8)-78	7-Sep-23	Day time	8	482					
		2391820 (8)-79	7-Sep-23	Night time	1	207	317	50	100	Pass	
		2391820 (8)-80	7-Sep-23	Night time	2	374					
		2391820 (8)-81	7-Sep-23	Night time	3	464					
		2391820 (8)-82	7-Sep-23	Night time	4	439					
10	Area : Workshop Ground Floor : Unsecured Warehouse (Rack GBP-C & GBP-B)	2391820 (8)-87	7-Sep-23	Day time	1	348	296	50	100	Pass	Pass
		2391820 (8)-88	7-Sep-23	Day time	2	243					
		2391820 (8)-89	7-Sep-23	Night time	1	319	276	50	100	Pass	
		2391820 (8)-90	7-Sep-23	Night time	2	232					
		2391820 (8)-91	7-Sep-23	Day time	1	288	262	50	100	Pass	
		2391820 (8)-92	7-Sep-23	Day time	2	236					
		2391820 (8)-93	7-Sep-23	Night time	1	276	247	50	100	Pass	
		2391820 (8)-94	7-Sep-23	Night time	2	218					
		2391820 (8)-95	7-Sep-23	Day time	1	500	-	400-500	-	Pass	
		2391820 (8)-96	7-Sep-23	Night time	1	503	-	400-500	-	Pass	
		2391820 (8)-97	7-Sep-23	Night time	2	218					
		2391820 (8)-98	7-Sep-23	Night time	3	218					
11	Area : Workshop Ground Floor : Utility Room	2391820 (8)-99	7-Sep-23	Day time	1	288	262	50	100	Pass	Pass
		2391820 (8)-100	7-Sep-23	Day time	2	236					
		2391820 (8)-101	7-Sep-23	Night time	1	276	247	50	100	Pass	
		2391820 (8)-102	7-Sep-23	Night time	2	218					
		2391820 (8)-103	7-Sep-23	Day time	1	500	-	400-500	-	Pass	
		2391820 (8)-104	7-Sep-23	Night time	1	503	-	400-500	-	Pass	
		2391820 (8)-105	7-Sep-23	Night time	2	218					
		2391820 (8)-106	7-Sep-23	Night time	3	218					
		2391820 (8)-107	7-Sep-23	Day time	1	500	-	400-500	-	Pass	
		2391820 (8)-108	7-Sep-23	Night time	1	503	-	400-500	-	Pass	
		2391820 (8)-109	7-Sep-23	Night time	2	218					
		2391820 (8)-110	7-Sep-23	Night time	3	218					
12	Spot : Workshop Ground Floor : Warehouse Office Table 1	2391820 (8)-95	7-Sep-23	Day time	1	500	-	400-500	-	Pass	Pass
		2391820 (8)-96	7-Sep-23	Night time	1	503	-	400-500	-	Pass	
		2391820 (8)-97	7-Sep-23	Night time	2	218					
		2391820 (8)-98	7-Sep-23	Night time	3	218					
		2391820 (8)-99	7-Sep-23	Day time	1	500	-	400-500	-	Pass	
		2391820 (8)-100	7-Sep-23	Night time	1	503	-	400-500	-	Pass	
		2391820 (8)-101	7-Sep-23	Night time	2	218					
		2391820 (8)-102	7-Sep-23	Night time	3	218					
		2391820 (8)-103	7-Sep-23	Day time	1	500	-	400-500	-	Pass	
		2391820 (8)-104	7-Sep-23	Night time	1	503	-	400-500	-	Pass	
		2391820 (8)-105	7-Sep-23	Night time	2	218					
		2391820 (8)-106	7-Sep-23	Night time	3	218					

Technical Management  
Supot Salameh  
Section Head

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Assistant Manager

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ALS LABORATORY GROUP (THAILAND) CO., LTD. AN ALS Limited Company



## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 2391820 (8)**  
Date Received : Sep 09, 2023  
Date Reported : Sep 18, 2023  
Project Name : Monitoring EIA  
Report Number: 2391820 (8)-1 C1  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
13	Spot : Workshop Ground Floor : Warehouse Office Table 2	2391820 (8)-97 2391820 (8)-98	7-Sep-23 7-Sep-23	Day time	1	445	-	400-500	-	Pass
				Night time	1	420	-	400-500	-	Pass

Measurement by : Phongsiri Somkaew  
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 23131975 (1)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Project Name : Monitoring EIA  
Report Number: 23131975 (1)-1  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Electrical and Control Building : 1st Floor : Break Out Room	23131975 (1)-1 23131975 (1)-2 23131975 (1)-3 23131975 (1)-4	13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23	Day time	1	92	98	25	50	Pass
				Day time	2	104				
				Night time	1	55	58	25	50	Pass
				Night time	2	61				
2	Area : Electrical and Control Building : 1st Floor : Corridor (พื้นที่ทางเดินบริเวณ 1st)	23131975 (1)-5 23131975 (1)-6 23131975 (1)-7 23131975 (1)-8	13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23	Day time	1	608	532	50	100	Pass
				Day time	2	455				
				Night time	1	400	411	50	100	Pass
				Night time	2	422				
4	Area : Electrical and Control Building : 1st Floor : Switchgear and Electrical Equipment Room Zone with (wing Control)	23131975 (1)-9 23131975 (1)-10 23131975 (1)-11 23131975 (1)-12 23131975 (1)-13 23131975 (1)-14 23131975 (1)-15 23131975 (1)-16 23131975 (1)-17 23131975 (1)-18 23131975 (1)-19 23131975 (1)-20 23131975 (1)-21 23131975 (1)-22	13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23	Day time	1	382	330	100	200	Pass
				Day time	2	290				
				Day time	3	315				
				Day time	4	360				
				Day time	5	376				
				Day time	6	318				
				Day time	7	271				
				Night time	1	348	308	100	200	Pass
				Night time	2	261				
				Night time	3	292				
				Night time	4	330				
				Night time	5	376				
5	Area : Electrical and Control Building : 1st Floor : Switchgear and Electrical Equipment Room (Battery Room)	23131975 (1)-23 23131975 (1)-24 23131975 (1)-25 23131975 (1)-26	13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23	Day time	1	510	524	100	200	Pass
				Day time	2	539				
				Night time	1	510	524	100	200	Pass
				Night time	2	537				

Technical Management  
Supot Salameh  
Section Head

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Assistant Manager

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## Analysis / Test Report

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**Lot ID: 23131975 (1)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Report Number: 23131975 (1)-1  
P/O :  
Project Name : Monitoring EIA  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
6	Area : Electrical and Control Building : 1st Floor : Switchgear and Electrical Equipment Room (w/ing Control)	23131975 (1)-27	13-Dec-23	Day time	1	412	395	100	200	Pass
		23131975 (1)-28	13-Dec-23	Day time	2	411				
		23131975 (1)-29	13-Dec-23	Day time	3	454				
		23131975 (1)-30	13-Dec-23	Day time	4	409				
		23131975 (1)-31	13-Dec-23	Day time	5	352				
		23131975 (1)-32	13-Dec-23	Day time	6	407				
		23131975 (1)-33	13-Dec-23	Day time	7	320				
		23131975 (1)-34	13-Dec-23	Night time	1	411				
		23131975 (1)-35	13-Dec-23	Night time	2	359				
		23131975 (1)-36	13-Dec-23	Night time	3	442				
		23131975 (1)-37	13-Dec-23	Night time	4	410				
		23131975 (1)-38	13-Dec-23	Night time	5	340				
		23131975 (1)-39	13-Dec-23	Night time	6	407				
		23131975 (1)-40	13-Dec-23	Night time	7	317				

Measurement by : Phongsiri Somkaew  
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management  
Supot Salameh  
Section Head

Approved by  
Nichee Chuan  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 23131975 (2)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Report Number: 23131975 (2)-1  
P/O :  
Project Name : Monitoring EIA  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Electrical and Control Building : 2nd Floor : Break Out Area (พื้นที่พัก)	23131975 (2)-1	13-Dec-23	Day time	1	505	509	50	100	Pass
		23131975 (2)-2	13-Dec-23	Day time	2	513				
		23131975 (2)-3	13-Dec-23	Night time	1	419	421	50	100	Pass
		23131975 (2)-4	13-Dec-23	Night time	2	423				
6	Area : Electrical and Control Building : 2nd Floor : Lobby Corridor (ทางเดินโถง)	23131975 (2)-5	13-Dec-23	Day time	1	328	208	50	100	Pass
		23131975 (2)-6	13-Dec-23	Day time	2	185				
		23131975 (2)-7	13-Dec-23	Day time	3	163				
		23131975 (2)-8	13-Dec-23	Day time	4	181				
		23131975 (2)-9	13-Dec-23	Day time	5	179				
		23131975 (2)-10	13-Dec-23	Day time	6	204				
		23131975 (2)-11	13-Dec-23	Day time	7	215				
		23131975 (2)-12	13-Dec-23	Night time	1	315	187	50	100	Pass
		23131975 (2)-13	13-Dec-23	Night time	2	159				
		23131975 (2)-14	13-Dec-23	Night time	3	144				
		23131975 (2)-15	13-Dec-23	Night time	4	178				
		23131975 (2)-16	13-Dec-23	Night time	5	163				
7	Area : Electrical and Control Building : 2nd Floor : Men Toilet	23131975 (2)-17	13-Dec-23	Night time	6	172				
		23131975 (2)-18	13-Dec-23	Night time	7	180				
		23131975 (2)-19	13-Dec-23	Day time	1	472	492	50	100	Pass
		23131975 (2)-20	13-Dec-23	Day time	2	612				
		23131975 (2)-21	13-Dec-23	Day time	3	366				
		23131975 (2)-22	13-Dec-23	Day time	4	518				
		23131975 (2)-23	13-Dec-23	Night time	1	471	463	50	100	Pass
		23131975 (2)-24	13-Dec-23	Night time	2	534				
		23131975 (2)-25	13-Dec-23	Night time	3	340				
		23131975 (2)-26	13-Dec-23	Night time	4	506				
8	Spot : Electrical and Control Building : 2nd Floor : Operation Manager	23131975 (2)-27	13-Dec-23	Day time	1	421	-	400-500	-	Pass
		23131975 (2)-28	13-Dec-23	Night time	1	402	-	400-500	-	Pass
9	Area : Electrical and Control Building : 2nd Floor : Pantry	23131975 (2)-29	13-Dec-23	Day time	1	678	487	150	300	Pass
		23131975 (2)-30	13-Dec-23	Day time	2	463				
		23131975 (2)-31	13-Dec-23	Day time	3	429				
		23131975 (2)-32	13-Dec-23	Day time	4	379				
		23131975 (2)-33	13-Dec-23	Night time	1	517	438	150	300	Pass
		23131975 (2)-34	13-Dec-23	Night time	2	450				
		23131975 (2)-35	13-Dec-23	Night time	3	423				
		23131975 (2)-36	13-Dec-23	Night time	4	364				

Technical Management  
Supot Salameh  
Section Head

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Nichee Chuan  
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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 23131975 (2)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Project Name : Monitoring EIA  
Report Number: 23131975 (2)-1  
Project Location: GBL

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
10	Spot : Electrical and Control Building : 2nd Floor : Shift Day Time 2	23131975 (2)-37	13-Dec-23	Day time	1	539	-	400-500	-	Pass
		23131975 (2)-38	13-Dec-23	Night time	1	407	-	400-500	-	Pass
11	Spot : Electrical and Control Building : 2nd Floor : Shift Day Time 1	23131975 (2)-39	13-Dec-23	Day time	1	426	-	400-500	-	Pass
		23131975 (2)-40	13-Dec-23	Night time	1	412	-	400-500	-	Pass
15	Area : Electrical and Control Building : 2nd Floor : Up-down Main Way (Stair)	23131975 (2)-41	13-Dec-23	Day time	1	202	448	50	100	Pass
		23131975 (2)-42	13-Dec-23	Day time	2	806				
		23131975 (2)-43	13-Dec-23	Day time	3	337				
		23131975 (2)-44	13-Dec-23	Night time	1	79	102	50	100	Pass
16	Area : Electrical and Control Building : 2nd Floor : Utility Room	23131975 (2)-45	13-Dec-23	Night time	2	134				
		23131975 (2)-46	13-Dec-23	Night time	3	92				
		23131975 (2)-47	13-Dec-23	Day time	1	202	204	100	200	Pass
		23131975 (2)-48	13-Dec-23	Day time	2	207				
17	Area : Electrical and Control Building : 2nd Floor : Women Toilet	23131975 (2)-49	13-Dec-23	Night time	1	204	206	100	200	Pass
		23131975 (2)-50	13-Dec-23	Night time	2	207				
		23131975 (2)-51	13-Dec-23	Day time	1	509	492	50	100	Pass
		23131975 (2)-52	13-Dec-23	Day time	2	475				
17	Area : Electrical and Control Building : 2nd Floor : Women Toilet	23131975 (2)-53	13-Dec-23	Night time	1	447	426	50	100	Pass
		23131975 (2)-54	13-Dec-23	Night time	2	406				

Measurement by : Phongsiri Somlaew  
Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management  
Supot Salameh  
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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 23131975 (3)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Project Name : Monitoring EIA  
Report Number: 23131975 (3)-1  
Project Location: GBL

Page 1 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
2	Spot : Electrical and Control Building : 3rd Floor : Admin Helper 2	23131975 (3)-1	13-Dec-23	Day time	1	539	-	400-500	-	Pass
		23131975 (3)-2	13-Dec-23	Night time	1	430	-	400-500	-	Pass
3	Spot : Electrical and Control Building : 3rd Floor : Admin Manager	23131975 (3)-3	13-Dec-23	Day time	1	420	-	400-500	-	Pass
		23131975 (3)-4	13-Dec-23	Night time	1	410	-	400-500	-	Pass
4	Area : Electrical and Control Building : 3rd Floor : Copy Room	23131975 (3)-5	13-Dec-23	Day time	1	486	472	150	300	Pass
		23131975 (3)-6	13-Dec-23	Day time	2	458				
		23131975 (3)-7	13-Dec-23	Night time	1	369	384	150	300	Pass
		23131975 (3)-8	13-Dec-23	Night time	2	400				
5	Area : Electrical and Control Building : 3rd Floor : Corridor (หน้าตู้หม้อไอน้ำ)	23131975 (3)-9	13-Dec-23	Day time	1	168	180	50	100	Pass
		23131975 (3)-10	13-Dec-23	Day time	2	195				
		23131975 (3)-11	13-Dec-23	Day time	3	186				
		23131975 (3)-12	13-Dec-23	Day time	4	165				
		23131975 (3)-13	13-Dec-23	Day time	5	176				
		23131975 (3)-14	13-Dec-23	Day time	6	172				
		23131975 (3)-15	13-Dec-23	Day time	7	200				
		23131975 (3)-16	13-Dec-23	Night time	1	162	162	50	100	Pass
		23131975 (3)-17	13-Dec-23	Night time	2	178				
		23131975 (3)-18	13-Dec-23	Night time	3	172				
6	Area : Electrical and Control Building : 3rd Floor : Document Room	23131975 (3)-19	13-Dec-23	Night time	4	146				
		23131975 (3)-20	13-Dec-23	Night time	5	167				
		23131975 (3)-21	13-Dec-23	Night time	6	153				
		23131975 (3)-22	13-Dec-23	Night time	7	157				
6	Area : Electrical and Control Building : 3rd Floor : Document Room	23131975 (3)-23	13-Dec-23	Day time	1	306	307	150	300	Pass
		23131975 (3)-24	13-Dec-23	Day time	2	308				
7	Spot : Electrical and Control Building : 3rd Floor : EHS Manager	23131975 (3)-25	13-Dec-23	Day time	1	409	-	400-500	-	Pass
		23131975 (3)-26	13-Dec-23	Night time	1	407	-	400-500	-	Pass
8	Spot : Electrical and Control Building : 3rd Floor : Electrical Engineer 1	23131975 (3)-27	13-Dec-23	Day time	1	444	-	400-500	-	Pass
		23131975 (3)-28	13-Dec-23	Night time	1	409	-	400-500	-	Pass
9	Spot : Electrical and Control Building : 3rd Floor : Electrical Engineer 2	23131975 (3)-29	13-Dec-23	Day time	1	513	-	400-500	-	Pass
		23131975 (3)-30	13-Dec-23	Night time	1	415	-	400-500	-	Pass
10	Spot : Electrical and Control Building : 3rd Floor : Electrical Leader	23131975 (3)-31	13-Dec-23	Day time	1	445	-	400-500	-	Pass
		23131975 (3)-32	13-Dec-23	Night time	1	448	-	400-500	-	Pass

Technical Management  
Supot Salameh  
Section Head

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Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 23131975 (3)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Project Name : Monitoring EIA  
Report Number: 23131975 (3)-1  
Project Location: GBL

Page 2 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	GBL		Illuminance (Lux)	Spot	Guideline Limit		Comment
						Average	Spot/Min			Average	Spot/Min	
11	Spot : Electrical and Control Building : 3rd Floor : Helper	23131975 (3)-33 23131975 (3)-34	13-Dec-23 13-Dec-23	Day time Night time	1 1	521 454	- -	400-500 400-500	521 454	- -	400-500 400-500	Pass Pass
12	Spot : Electrical and Control Building : 3rd Floor : I&C Leader	23131975 (3)-35 23131975 (3)-36	13-Dec-23 13-Dec-23	Day time Night time	1 1	511 510	- -	400-500 400-500	511 510	- -	400-500 400-500	Pass Pass
13	Spot : Electrical and Control Building : 3rd Floor : I&C Engineer 1	23131975 (3)-37 23131975 (3)-38	13-Dec-23 13-Dec-23	Day time Night time	1 1	496 485	- -	400-500 400-500	496 485	- -	400-500 400-500	Pass Pass
14	Spot : Electrical and Control Building : 3rd Floor : I&C Engineer 2	23131975 (3)-39 23131975 (3)-40	13-Dec-23 13-Dec-23	Day time Night time	1 1	472 457	- -	400-500 400-500	472 457	- -	400-500 400-500	Pass Pass
16	Spot : Electrical and Control Building : 3rd Floor : Mechanical Engineer 1	23131975 (3)-41 23131975 (3)-42	13-Dec-23 13-Dec-23	Day time Night time	1 1	441 439	- -	400-500 400-500	441 439	- -	400-500 400-500	Pass Pass
17	Spot : Electrical and Control Building : 3rd Floor : Mechanical Engineer 2	23131975 (3)-43 23131975 (3)-44	13-Dec-23 13-Dec-23	Day time Night time	1 1	520 519	- -	400-500 400-500	520 519	- -	400-500 400-500	Pass Pass
18	Spot : Electrical and Control Building : 3rd Floor : Mechanical Leader	23131975 (3)-45 23131975 (3)-46	13-Dec-23 13-Dec-23	Day time Night time	1 1	448 447	- -	400-500 400-500	448 447	- -	400-500 400-500	Pass Pass
19	Spot : Electrical and Control Building : 3rd Floor : Maintenance Manager	23131975 (3)-47 23131975 (3)-48	13-Dec-23 13-Dec-23	Day time Night time	1 1	470 461	- -	400-500 400-500	470 461	- -	400-500 400-500	Pass Pass
20	Area : Electrical and Control Building : 3rd Floor : Men Toilet	23131975 (3)-49 23131975 (3)-50 23131975 (3)-51 23131975 (3)-52	13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23	Day time Day time Night time Night time	1 2 1 2	569 650 498 639	610 568	50 100	569 650 498 639	50 100	100 100	Pass Pass Pass Pass
21	Area : Electrical and Control Building : 3rd Floor : Netting Room 1	23131975 (3)-53 23131975 (3)-54 23131975 (3)-55 23131975 (3)-56 23131975 (3)-57 23131975 (3)-58 23131975 (3)-59 23131975 (3)-60 23131975 (3)-61 23131975 (3)-62 23131975 (3)-63 23131975 (3)-64	13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23	Day time Day time Day time Day time Day time Day time Night time Night time Night time Night time Night time Night time Night time	1 2 3 4 5 6 1 2 3 4 5 6	498 481 598 496 592 493 419 477 593 438 510 465	526 484	150 300	498 481 598 496 592 493 419 477 593 438 510 465	150 300	300 300	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

Technical Management  
Supot Salamteh  
Section Head

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## Analysis / Test Report

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 23131975 (3)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Project Name : Monitoring EIA  
Report Number: 23131975 (3)-1  
Project Location: GBL

Page 3 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	GBL		Illuminance (Lux)	Spot	Guideline Limit		Comment
						Average	Spot/Min			Average	Spot/Min	
22	Area : Electrical and Control Building : 3rd Floor : Pantry&Canteen	23131975 (3)-65 23131975 (3)-66 23131975 (3)-67 23131975 (3)-68	13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23	Day time Day time Night time Night time	1 2 1 2	610 684 422 419	647 420	150 300	610 684 422 419	150 300	300 300	Pass Pass Pass Pass
23	Spot : Electrical and Control Building : 3rd Floor : Plant Manager	23131975 (3)-69 23131975 (3)-70	13-Dec-23 13-Dec-23	Day time Night time	1 1	463 410	- -	400-500 400-500	463 410	- -	400-500 400-500	Pass Pass
24	Spot : Electrical and Control Building : 3rd Floor : Purchase	23131975 (3)-71 23131975 (3)-72	13-Dec-23 13-Dec-23	Day time Night time	1 1	416 415	- -	400-500 400-500	416 415	- -	400-500 400-500	Pass Pass
25	Area : Electrical and Control Building : 3rd Floor : Server Room	23131975 (3)-73 23131975 (3)-74	13-Dec-23 13-Dec-23	Day time Day time	1 2	465 308	386	100 200	465 308	100 200	200 200	Pass Pass
26	Area : Electrical and Control Building : 3rd Floor : Storage Room	23131975 (3)-75 23131975 (3)-76 23131975 (3)-77 23131975 (3)-78	13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23	Day time Day time Night time Night time	1 2 1 2	101 102 101 100	102 50	100 100	101 102 101 100	50 100	100 100	Pass Pass Pass Pass
27	Area : Electrical and Control Building : 3rd Floor : Updown Main Way (Stair)	23131975 (3)-79 23131975 (3)-80 23131975 (3)-81	13-Dec-23 13-Dec-23 13-Dec-23	Day time Day time Day time	1 2 3	90 132 165	132	50 100	90 132 165	50 100	100 100	Pass Pass Pass
28	Spot : Electrical and Control Building : 3rd Floor : Warehouse	23131975 (3)-82 23131975 (3)-83	13-Dec-23 13-Dec-23	Day time Night time	1 1	474 416	- -	400-500 400-500	474 416	- -	400-500 400-500	Pass Pass
29	Area : Electrical and Control Building : 3rd Floor : Women Toilet	23131975 (3)-84 23131975 (3)-85 23131975 (3)-86 23131975 (3)-87	13-Dec-23 13-Dec-23 13-Dec-23 13-Dec-23	Day time Day time Night time Night time	1 2 1 2	525 640 516 612	582 564	50 100	525 640 516 612	50 100	100 100	Pass Pass Pass Pass

Measurement by : Phongsiri Somkaew

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

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## Analysis / Test Report

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777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 23131975 (4)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Report Number: 23131975 (4)-1  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location:** GBL

Page 1 of 2

Lay out No.	Location	Reference Number	Date	GBL		No.	Time	Illuminance (Lux)		Guideline Limit		Comment
				Spot	Average			Spot	Average	Spot/Min	Average	
1	Area : GIS Building : 115 Kv (สำนักงาน Control)	23131975 (4)-1	13-Dec-23	Day time	1	424	448	100	200	Pass	Pass	
			13-Dec-23	Day time	2	608						
			13-Dec-23	Day time	3	316						
			13-Dec-23	Day time	4	602						
			13-Dec-23	Day time	5	408						
			13-Dec-23	Day time	6	332						
			13-Dec-23	Night time	1	409	436	100	200	Pass	Pass	
			13-Dec-23	Night time	2	573						
			13-Dec-23	Night time	3	317						
			13-Dec-23	Night time	4	601						
			13-Dec-23	Night time	5	403						
			13-Dec-23	Night time	6	315						
2	Area : GIS Building : 22 Kv Switch Gear Room (สำนักงาน Switch Gear Control)	23131975 (4)-13	13-Dec-23	Day time	1	539	573	100	200	Pass	Pass	
			13-Dec-23	Day time	2	766						
			13-Dec-23	Day time	3	414						
			13-Dec-23	Night time	1	442	538	100	200	Pass	Pass	
			13-Dec-23	Night time	2	758						
			13-Dec-23	Night time	3	413						
3	Area : GIS Building : Switchyard Control Room (สำนักงาน Switchyard Control)	23131975 (4)-19	13-Dec-23	Day time	1	498	330	100	200	Pass	Pass	
			13-Dec-23	Day time	2	259						
			13-Dec-23	Day time	3	233						
			13-Dec-23	Night time	1	427	298	100	200	Pass	Pass	
			13-Dec-23	Night time	2	232						
			13-Dec-23	Night time	3	234						
4	Area : GIS Building : Switchyard Control Room (Battery Room)	23131975 (4)-25	13-Dec-23	Day time	1	290	299	100	200	Pass	Pass	
			13-Dec-23	Day time	2	308						
			13-Dec-23	Night time	1	291	298	100	200	Pass	Pass	
			13-Dec-23	Night time	2	305						
			13-Dec-23	Day time	1	407	384	100	200	Pass	Pass	
			13-Dec-23	Day time	2	367						
5	Area : GIS Building : Terminal Sub Control Room (สำนักงาน Terminal Sub Control)	23131975 (4)-30	13-Dec-23	Day time	3	377						
			13-Dec-23	Day time	1	409	384	100	200	Pass	Pass	
			13-Dec-23	Night time	2	372						
			13-Dec-23	Night time	3	370						
			13-Dec-23	Day time	1	407	384	100	200	Pass	Pass	
			13-Dec-23	Day time	2	367						

Supot S.

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Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 23131975 (4)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Report Number: 23131975 (4)-1  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location:** GBL

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Lay out No.	Location	Reference Number	Date	GBL		No.	Time	Illuminance (Lux)		Guideline Limit		Comment
				Spot	Average			Spot	Average	Spot/Min	Average	
6	Area : GIS Building : Terminal Sub Control Room (Battery Room)	23131975 (4)-35	13-Dec-23	Day time	1	423	424	100	200	Pass	Pass	
			13-Dec-23	Day time	2	426						
			13-Dec-23	Night time	1	421	421	100	200	Pass	Pass	
			13-Dec-23	Night time	2	421						
			13-Dec-23	Night time	2	421						
			13-Dec-23	Night time	2	421						

Measurement by : Phongsiri Somkaew

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21, B.E.2561 (2018)

Supot S.

Supot Salameh  
Section Head

Technical Management

Nichan C.

Wichan Choonharat  
Assistant Manager

Approved by

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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O :  
Project Name : Monitoring EIA  
Project Location: GBL

**Lot ID: 23131975 (5)**  
Date Received : Dec 15, 2023  
Date Reported : Dec 28, 2023  
Report Number: 23131975 (5)-1

Page 1 of 1

Lay out No.	Location	Reference Number	GBL		Time	No.	Illuminance (Lux)		Guideline Limit		Comment
			Spot	Average			Spot	Average	Spot/Min	Average	
1	Spot : โรงเล้าสุกร : โรงเล้าสุกร	23131975 (5)-1 23131975 (5)-2	13-Dec-23 13-Dec-23	Day time Night time	1 1	412 403	- -	- -	400-500 400-500	- -	Pass Pass

Measurement by : Phongsiri Somkaew  
Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management  
Supot Salameh  
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## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
P/O :  
Project Name : Monitoring EIA  
Project Location: GBL

**Lot ID: 23135570 (7)**  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Report Number: 23135570 (7)-1 C1

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Lay out No.	Location	Reference Number	Date	GBL		No.	Illuminance (Lux)		Guideline Limit		Comment
				Time	Spot		Average	Spot/Min	Average		
1	Spot : Workshop First Floor : C&I Egnieer #1	23135570 (7)-1	14-Dec-23	Day time	1	432	-	400-500	-	Pass	
		23135570 (7)-2	14-Dec-23	Night time	1	416	-	400-500	-	Pass	
2	Spot : Workshop First Floor : C&I Egnieer #1.1	23135570 (7)-3	14-Dec-23	Day time	1	505	-	400-500	-	Pass	
		23135570 (7)-4	14-Dec-23	Night time	1	423	-	400-500	-	Pass	
3	Spot : Workshop First Floor : C&I Helper	23135570 (7)-5	14-Dec-23	Day time	1	514	-	400-500	-	Pass	
		23135570 (7)-6	14-Dec-23	Night time	1	447	-	400-500	-	Pass	
4	Spot : Workshop First Floor : C&I Leader	23135570 (7)-7	14-Dec-23	Day time	1	505	-	400-500	-	Pass	
		23135570 (7)-8	14-Dec-23	Night time	1	409	-	400-500	-	Pass	
5	Area : Workshop First Floor : Canteen & Pantry (พื้นที่รับประทานอาหาร)	23135570 (7)-9	14-Dec-23	Day time	1	405	452	150	300	Pass	
		23135570 (7)-10	14-Dec-23	Day time	2	498					
		23135570 (7)-11	14-Dec-23	Night time	1	405	425	150	300	Pass	
		23135570 (7)-12	14-Dec-23	Night time	2	445					
6	Area : Workshop First Floor : Copy Room	23135570 (7)-13	14-Dec-23	Day time	1	450	448	150	300	Pass	
		23135570 (7)-14	14-Dec-23	Day time	2	446					
		23135570 (7)-15	14-Dec-23	Night time	1	451	438	150	300	Pass	
		23135570 (7)-16	14-Dec-23	Night time	2	426					
7	Area : Workshop First Floor : Corridor	23135570 (7)-17	14-Dec-23	Day time	1	497	820	50	100	Pass	
		23135570 (7)-18	14-Dec-23	Day time	2	858					
		23135570 (7)-19	14-Dec-23	Day time	3	966					
		23135570 (7)-20	14-Dec-23	Day time	4	960					
		23135570 (7)-21	14-Dec-23	Night time	1	417	797	50	100	Pass	
		23135570 (7)-22	14-Dec-23	Night time	2	850					
		23135570 (7)-23	14-Dec-23	Night time	3	957					
		23135570 (7)-24	14-Dec-23	Night time	4	964					

Technical Management  
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## Analysis / Test Report

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Date Reported : Dec 21, 2023  
Project Name : Monitoring EIA  
Project Location: GBL  
Report Number: 23135570 (7)-1 C1

Page 2 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	GBL		Illuminance (Lux)	Spot	Guideline Limit		Comment
						Average	Spot/Min			Average	Spot/Min	
10	Area : Workshop First Floor : Meeting Room	23135570 (7)-31 23135570 (7)-32 23135570 (7)-33 23135570 (7)-34 23135570 (7)-35 23135570 (7)-36 23135570 (7)-37 23135570 (7)-38 23135570 (7)-39 23135570 (7)-40 23135570 (7)-41 23135570 (7)-42	14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23	Day time Day time Day time Day time Day time Day time Night time Night time Night time Night time Night time Night time	1 2 3 4 5 6 1 2 3 4 5 6	522 729 633 844 654 673 520 716 618 804 561 613	676 150 300	Pass	Pass	Pass	Pass	Pass
11	Spot : Workshop First Floor : MM Engineer #1	23135570 (7)-43 23135570 (7)-44	14-Dec-23 14-Dec-23	Day time Night time	1 1	430 416	- 400-500 - 400-500	Pass	Pass	- -	- -	Pass Pass
12	Spot : Workshop First Floor : MM Leader	23135570 (7)-45 23135570 (7)-46	14-Dec-23 14-Dec-23	Day time Night time	1 1	438 435	- 400-500 - 400-500	Pass	Pass	- -	- -	Pass Pass
13	Spot : Workshop First Floor : IT Office	23135570 (7)-47 23135570 (7)-48	14-Dec-23 14-Dec-23	Day time Night time	1 1	418 418	- 400-500 - 400-500	Pass	Pass	- -	- -	Pass Pass
14	Area : Workshop First Floor : Restroom : Female	23135570 (7)-49 23135570 (7)-50 23135570 (7)-51 23135570 (7)-52	14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23	Day time Day time Night time Night time	1 2 1 2	120 116 104 113	118 50 100 100	Pass	Pass	- -	- -	Pass Pass
15	Area : Workshop First Floor : Restroom : Male	23135570 (7)-53 23135570 (7)-54 23135570 (7)-55 23135570 (7)-56 23135570 (7)-57 23135570 (7)-58 23135570 (7)-59 23135570 (7)-60	14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23 14-Dec-23	Day time Day time Day time Day time Night time Night time Night time Night time	1 2 3 4 1 2 3 4	657 364 622 593 418 360 617 482	559 50 100 100	Pass	Pass	- -	- -	Pass Pass
16	Spot : Workshop First Floor : Electrical Engineering #1	23135570 (7)-61 23135570 (7)-62	14-Dec-23 14-Dec-23	Day time Night time	1 1	426 420	- 400-500 - 400-500	Pass	Pass	- -	- -	Pass Pass
17	Spot : Workshop First Floor : Electrical Engineering #2	23135570 (7)-63 23135570 (7)-64	14-Dec-23 14-Dec-23	Day time Night time	1 1	432 419	- 400-500 - 400-500	Pass	Pass	- -	- -	Pass Pass

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## Analysis / Test Report

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Project Location: GBL  
Report Number: 23135570 (7)-1 C1

Page 3 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	GBL		Illuminance (Lux)	Spot	Guideline Limit		Comment
						Average	Spot/Min			Average	Spot/Min	
18	Spot : Workshop First Floor : Electrical Helper	23135570 (7)-65 23135570 (7)-66	14-Dec-23 14-Dec-23	Day time Night time	1 1	411 410	- 400-500 - 400-500	Pass	Pass	- -	- -	Pass Pass
19	Spot : Workshop First Floor : Electrical Leader	23135570 (7)-67 23135570 (7)-68	14-Dec-23 14-Dec-23	Day time Night time	1 1	474 428	- 400-500 - 400-500	Pass	Pass	- -	- -	Pass Pass
20	Spot : Workshop First Floor : Maintenance Manager	23135570 (7)-69 23135570 (7)-70	14-Dec-23 14-Dec-23	Day time Night time	1 1	439 419	- 400-500 - 400-500	Pass	Pass	- -	- -	Pass Pass

Measurement by : Phongsin Somkaew

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

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## Analysis / Test Report

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**Lot ID: 23135570 (8)**  
Date Received : Dec 16, 2023  
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Project Name : Monitoring EIA  
Report Number: 23135570 (8)-1 C1  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Workshop Ground Floor : C&I Workshop	23135570 (8)-1	14-Dec-23	Day time	1	385	415	100	200	Pass
		23135570 (8)-2	14-Dec-23	Day time	2	396				
		23135570 (8)-3	14-Dec-23	Day time	3	450				
		23135570 (8)-4	14-Dec-23	Day time	4	430				
		23135570 (8)-5	14-Dec-23	Night time	1	383	411	100	200	Pass
		23135570 (8)-6	14-Dec-23	Night time	2	387				
		23135570 (8)-7	14-Dec-23	Night time	3	451				
2	Area : Workshop Ground Floor : Corridor (ตามทางเดินภายในอาคาร)	23135570 (8)-8	14-Dec-23	Night time	4	422				
		23135570 (8)-9	14-Dec-23	Day time	1	576	615	50	100	Pass
		23135570 (8)-10	14-Dec-23	Day time	2	737				
		23135570 (8)-11	14-Dec-23	Day time	3	478				
		23135570 (8)-12	14-Dec-23	Day time	4	780				
		23135570 (8)-13	14-Dec-23	Day time	5	462				
		23135570 (8)-14	14-Dec-23	Day time	6	646				
		23135570 (8)-15	14-Dec-23	Day time	7	626				
		23135570 (8)-16	14-Dec-23	Night time	1	569	548	50	100	Pass
		23135570 (8)-17	14-Dec-23	Night time	2	546				
		23135570 (8)-18	14-Dec-23	Night time	3	429				
		23135570 (8)-19	14-Dec-23	Night time	4	546				
		23135570 (8)-20	14-Dec-23	Night time	5	573				
		23135570 (8)-21	14-Dec-23	Night time	6	641				
		23135570 (8)-22	14-Dec-23	Night time	7	534				

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Technical Management

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Report Number: 23135570 (8)-1 C1  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
3	Area : Workshop Ground Floor : Mechanical and Electrical Workshop	23135570 (8)-23	14-Dec-23	Day time	1	398	450	150	300	Pass
		23135570 (8)-24	14-Dec-23	Day time	2	465				
		23135570 (8)-25	14-Dec-23	Day time	3	482				
		23135570 (8)-26	14-Dec-23	Day time	4	427				
		23135570 (8)-27	14-Dec-23	Day time	5	440				
		23135570 (8)-28	14-Dec-23	Day time	6	474				
		23135570 (8)-29	14-Dec-23	Day time	7	411				
		23135570 (8)-30	14-Dec-23	Day time	8	465				
		23135570 (8)-31	14-Dec-23	Day time	9	485				
		23135570 (8)-32	14-Dec-23	Night time	1	330	401	150	300	Pass
		23135570 (8)-33	14-Dec-23	Night time	2	343				
		23135570 (8)-34	14-Dec-23	Night time	3	378				
		23135570 (8)-35	14-Dec-23	Night time	4	427				
		23135570 (8)-36	14-Dec-23	Night time	5	427				
		23135570 (8)-37	14-Dec-23	Night time	6	467				
		23135570 (8)-38	14-Dec-23	Night time	7	364				
		23135570 (8)-39	14-Dec-23	Night time	8	434				
		23135570 (8)-40	14-Dec-23	Night time	9	439				
4	Area : Workshop Ground Floor : Restroom : Female	23135570 (8)-41	14-Dec-23	Day time	1	607	627	50	100	Pass
		23135570 (8)-42	14-Dec-23	Day time	2	647				
		23135570 (8)-43	14-Dec-23	Night time	1	518	530	50	100	Pass
		23135570 (8)-44	14-Dec-23	Night time	2	543				
5	Area : Workshop Ground Floor : Restroom : Male	23135570 (8)-45	14-Dec-23	Day time	1	402	359	50	100	Pass
		23135570 (8)-46	14-Dec-23	Day time	2	316				
		23135570 (8)-47	14-Dec-23	Night time	1	356	332	50	100	Pass
		23135570 (8)-48	14-Dec-23	Night time	2	308				
6	Area : Workshop Ground Floor : Server Room	23135570 (8)-49	14-Dec-23	Day time	1	307	296	100	200	Pass
		23135570 (8)-50	14-Dec-23	Day time	2	284				
		23135570 (8)-51	14-Dec-23	Night time	1	282	284	100	200	Pass
		23135570 (8)-52	14-Dec-23	Night time	2	287				
7	Area : Workshop Ground Floor : Stair	23135570 (8)-53	14-Dec-23	Day time	1	98	104	50	100	Pass
		23135570 (8)-54	14-Dec-23	Day time	2	122				
		23135570 (8)-55	14-Dec-23	Day time	3	93				
		23135570 (8)-56	14-Dec-23	Night time	1	97	100	50	100	Pass
		23135570 (8)-57	14-Dec-23	Night time	2	108				
		23135570 (8)-58	14-Dec-23	Night time	3	96				

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Report Number: 23135570 (8)-1 C1  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	GBL		Illuminance (Lux)	Spot	Guideline Limit		Comment
						Average	Spot/Min			Average		
8	Area : Workshop Ground Floor : Tool Room	23135570 (8)-59	14-Dec-23	Day time	1	289	331	50	100	Pass		Pass
		23135570 (8)-60	14-Dec-23	Day time	2	255						
		23135570 (8)-61	14-Dec-23	Day time	3	335						
		23135570 (8)-62	14-Dec-23	Day time	4	318						
		23135570 (8)-63	14-Dec-23	Day time	5	440						
		23135570 (8)-64	14-Dec-23	Day time	6	348						
		23135570 (8)-65	14-Dec-23	Night time	1	283						
		23135570 (8)-66	14-Dec-23	Night time	2	261						
		23135570 (8)-67	14-Dec-23	Night time	3	330						
		23135570 (8)-68	14-Dec-23	Night time	4	316						
		23135570 (8)-69	14-Dec-23	Night time	5	439						
		23135570 (8)-70	14-Dec-23	Night time	6	433						
9	Area : Workshop Ground Floor : Unsecured Heavy/Bulky Equipment Storage (Zone ส่วนหน้า)	23135570 (8)-71	14-Dec-23	Day time	1	599	638	50	100	Pass		Pass
		23135570 (8)-72	14-Dec-23	Day time	2	773						
		23135570 (8)-73	14-Dec-23	Day time	3	797						
		23135570 (8)-74	14-Dec-23	Day time	4	521						
		23135570 (8)-75	14-Dec-23	Day time	5	599						
		23135570 (8)-76	14-Dec-23	Day time	6	569						
		23135570 (8)-77	14-Dec-23	Day time	7	698						
		23135570 (8)-78	14-Dec-23	Day time	8	546						
		23135570 (8)-79	14-Dec-23	Night time	1	522						
		23135570 (8)-80	14-Dec-23	Night time	2	570						
		23135570 (8)-81	14-Dec-23	Night time	3	573						
		23135570 (8)-82	14-Dec-23	Night time	4	411						
10	Area : Workshop Ground Floor : Unsecured Warehouse (Rack GBP-C & GBP-B)	23135570 (8)-87	14-Dec-23	Day time	1	416	392	50	100	Pass		Pass
		23135570 (8)-88	14-Dec-23	Day time	2	369						
		23135570 (8)-89	14-Dec-23	Night time	1	413	390	50	100	Pass		
		23135570 (8)-90	14-Dec-23	Night time	2	366						
		23135570 (8)-91	14-Dec-23	Day time	1	402	450	50	100	Pass		
		23135570 (8)-92	14-Dec-23	Day time	2	497						
		23135570 (8)-93	14-Dec-23	Night time	1	372	382	50	100	Pass		
		23135570 (8)-94	14-Dec-23	Night time	2	393						
		23135570 (8)-95	14-Dec-23	Day time	1	402	450	50	100	Pass		
		23135570 (8)-96	14-Dec-23	Day time	2	497						
		23135570 (8)-97	14-Dec-23	Night time	1	372	382	50	100	Pass		
		23135570 (8)-98	14-Dec-23	Night time	2	393						
11	Area : Workshop Ground Floor : Utility Room	23135570 (8)-99	14-Dec-23	Day time	1	402	450	50	100	Pass		Pass
		23135570 (8)-100	14-Dec-23	Day time	2	497						
		23135570 (8)-101	14-Dec-23	Night time	1	372	382	50	100	Pass		
		23135570 (8)-102	14-Dec-23	Night time	2	393						
		23135570 (8)-103	14-Dec-23	Day time	1	402	450	50	100	Pass		
		23135570 (8)-104	14-Dec-23	Day time	2	497						
		23135570 (8)-105	14-Dec-23	Night time	1	372	382	50	100	Pass		
		23135570 (8)-106	14-Dec-23	Night time	2	393						
		23135570 (8)-107	14-Dec-23	Day time	1	402	450	50	100	Pass		
		23135570 (8)-108	14-Dec-23	Day time	2	497						
		23135570 (8)-109	14-Dec-23	Night time	1	372	382	50	100	Pass		
		23135570 (8)-110	14-Dec-23	Night time	2	393						

Technical Management

Supot Salameh  
Section Head

Approved by

Wichan Choonharat  
Assistant Manager

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.

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



## Analysis / Test Report

Client : Gulf BL Co., Ltd.  
777 Moo 1, Ban Lane, Bang Pa In, Ayutthaya Thailand 13160  
**Lot ID: 23135570 (8)**  
Date Received : Dec 16, 2023  
Date Reported : Dec 21, 2023  
Project Name : Monitoring EIA  
Report Number: 23135570 (8)-1 C1  
Project Location: GBL

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Lay out No.	Location	Reference Number	Date	Time	No.	GBL		Illuminance (Lux)	Spot	Guideline Limit		Comment
						Average	Spot/Min			Average		
12	Spot : Workshop Ground Floor : Warehouse Office Table 1	23135570 (8)-95	14-Dec-23	Day time	1	528	-	400-500	-	400-500	-	Pass
		23135570 (8)-96	14-Dec-23	Night time	1	517	-	400-500	-	400-500	-	Pass
13	Spot : Workshop Ground Floor : Warehouse Office Table 2	23135570 (8)-97	14-Dec-23	Day time	1	502	-	400-500	-	400-500	-	Pass
		23135570 (8)-98	14-Dec-23	Night time	1	490	-	400-500	-	400-500	-	Pass

Measurement by : Phongsiri Somkaew

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Section Head

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