

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์
ผลกระทบสิ่งแวดล้อม



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2321660
Date Received : Mar 03, 2023
Date Reported : Mar 14, 2023
Report Number : 2580356-1

Page 1 of 1

Sample Number 2321660-1
Sample Description Emission from Stationary Source
Location HRSs 1
Measurement Date Mar 03, 2023

Stack Description								
Ambient Temperature	32	°C	Diameter	3.30	m	Oxygen	13.74	%
Ambient Pressure	760	mmHg	Shape	Circle		Carbon dioxide	4.04	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.32	m/s
Type of Fuel	Natural Gas		Moisture	8.49	%	Flow Rate	393389	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	01:15 PM - 01:35 PM	13.75	4.04	9.75	18.94	0.03	0.05
2	01:36 PM - 01:56 PM	13.74	4.04	9.61	18.66	0.03	0.05
3	01:57 PM - 02:17 PM	13.74	4.04	9.64	18.69	0.03	0.06
Average (ppm)		13.74	4.04	9.66	18.76	0.03	0.05
Guideline ^{1/} (ppm)				-	26.58	-	1.66
Guideline ^{2/} (ppm)				-	120	-	20
Guideline ^{3/} (ppm)				-	120	-	20
Result (mg/Nm ³)				18.18	35.30	0.07	0.14
Emission Rate at Actual O ₂ (g/s)				1.9863		0.0081	
Guideline ^{1/} (g/s)				3.000		0.255	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Saksit Phaisanphisit

Guideline : ^{1/} Environmental Impact Assessment Report of Global Power Synergy Public Company Limited (CUP 4)

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

^{3/} Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management

Wichan Choonharat

Wichan Choonharat
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Approved by

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4



TESTING
No.0042

Lot ID: 2322849
Date Received : Mar 03, 2023
Date Reported : Mar 13, 2023
Report Number : 2580361-1

Page 1 of 2

Sample Number 2322849-1
Sampled Date Mar 03, 2023
Sample Description Emission from Stationary Source
Location HRSs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated

Stack Description								
Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.3	m/s
Type of Fuel	Natural Gas		Moisture	8.51	%	Flow Rate (Actual O2)	392862	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂ at 13.7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	01:15 PM - 01:51 PM	mg/m3	-	0.5	<0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5

Guideline :

Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ๖-323-ก-9447

Approved by

Dej Changchon

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Senior Manager
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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322849
Date Received : Mar 03, 2023
Date Reported : Mar 13, 2023
Report Number: 2580361-1

Page 2 of 2

Sample Number 2322849-1
Sampled Date Mar 03, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.3	m/s
Type of Fuel	Natural Gas		Moisture	8.51	%	Flow Rate (Actual O2)	392862	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	01:15 PM - 01:51 PM	g/s	-	-	<0.055	-	0.416	Calculated	Rayong

Guideline :

Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Jaracrawee Sriruksa

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.

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 1 of 30

Sample Number 2322852-2
Sampled Date Mar 03, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.3	m/s
Type of Fuel	Natural Gas		Moisture	8.51	%	Flow Rate (Actual O2)	392862	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	01:15 PM - 01:57 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 2 of 30

Sample Number 2322852-2
Sampled Date Mar 03, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.3	m/s
Type of Fuel	Natural Gas		Moisture	8.51	%	Flow Rate (Actual O2)	392862	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	01:15 PM - 01:57 PM	g/s	-	-	<0.055	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 3 of 30

Sample Number 2322852-3
Sampled Date Mar 03, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.3	m/s
Type of Fuel	Natural Gas		Moisture	8.23	%	Flow Rate (Actual O2)	393852	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:00 PM - 02:42 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 4 of 30

Sample Number 2322852-3
Sampled Date Mar 03, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.3	m/s
Type of Fuel	Natural Gas		Moisture	8.23	%	Flow Rate (Actual O2)	393852	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	02:00 PM - 02:42 PM	g/s	-	-	<0.055	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

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Technical Management

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 5 of 30

Sample Number 2322852-4
Sampled Date Mar 03, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.5	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.3	m/s
Type of Fuel	Natural Gas		Moisture	8.49	%	Flow Rate (Actual O2)	392599	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:50 PM - 03:32 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management

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Project Name : Monitoring
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Lot ID: 2322852
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Page 6 of 30

Sample Number 2322852-4
Sampled Date Mar 03, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.5	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.3	m/s
Type of Fuel	Natural Gas		Moisture	8.49	%	Flow Rate (Actual O2)	392999	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	02:50 PM - 03:32 PM	g/s	-	-	<0.055	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

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TESTING
No.0042

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1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
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Sample Number 2322852-5
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.2	m/s
Type of Fuel	Natural Gas		Moisture	8.45	%	Flow Rate (Actual O2)	389126	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:20 AM - 11:02 AM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

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Sample Number 2322852-5
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.2	m/s
Type of Fuel	Natural Gas		Moisture	8.45	%	Flow Rate (Actual O2)	385126	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	10:20 AM - 11:02 AM	g/s	-	-	<0.054	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

Remark :

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

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Sample Number 2322852-6
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.1	m/s
Type of Fuel	Natural Gas		Moisture	7.82	%	Flow Rate (Actual O2)	391307	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:08 AM - 11:50 AM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

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Sample Number 2322852-6
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.1	m/s
Type of Fuel	Natural Gas		Moisture	7.82	%	Flow Rate (Actual O2)	391307	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	11:08 AM - 11:50 AM	g/s	-	-	<0.054	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Sampled By : Kantaphon Maneesampan, Sakit Phaisanphisit

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TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

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Sample Number 2322852-7
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.1	m/s
Type of Fuel	Natural Gas		Moisture	8.22	%	Flow Rate (Actual O2)	389548	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:55 AM - 12:38 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

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Sample Number 2322852-7
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.1	m/s
Type of Fuel	Natural Gas		Moisture	8.22	%	Flow Rate (Actual O2)	388948	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	11:55 AM - 12:38 PM	g/s	-	-	<0.054	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Sampled By : Kantaphon Maneesampan, Sakit Phaisanphisit

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 13 of 30

Sample Number 2322852-8
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.2	m/s
Type of Fuel	Natural Gas		Moisture	8.57	%	Flow Rate (Actual O2)	388721	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	12:45 PM - 01:27 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Analysis / Test Report



TESTING
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1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 14 of 30

Sample Number 2322852-8
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.2	m/s
Type of Fuel	Natural Gas		Moisture	8.57	%	Flow Rate (Actual O2)	388721	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	12:45 PM - 01:27 PM	g/s	-	-	<0.054	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 15 of 30

Sample Number 2322852-9
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.2	m/s
Type of Fuel	Natural Gas		Moisture	8.62	%	Flow Rate (Actual O2)	388527	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	01:35 PM - 02:17 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
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Report Number: 2580358-1

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Sample Number 2322852-9
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.2	m/s
Type of Fuel	Natural Gas		Moisture	8.62	%	Flow Rate (Actual O2)	388527	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	01:35 PM - 02:17 PM	g/s	-	-	<0.054	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

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Approved by

D. Chongchong

Dej Changchong
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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 17 of 30

Sample Number 2322852-10
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.1	m/s
Type of Fuel	Natural Gas		Moisture	8.23	%	Flow Rate (Actual O2)	389673	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:25 PM - 03:07 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 18 of 30

Sample Number 2322852-10
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.1	m/s
Type of Fuel	Natural Gas		Moisture	8.23	%	Flow Rate (Actual O2)	385873	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	02:25 PM - 03:07 PM	g/s	-	-	<0.054	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

Remark :

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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

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Sample Number 2322852-11
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.1	m/s
Type of Fuel	Natural Gas		Moisture	8.23	%	Flow Rate (Actual O2)	389510	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	03:15 PM - 03:57 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management

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1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

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Sample Number 2322852-11
Sampled Date Mar 04, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	140	°C	Gas Velocity	19.1	m/s
Type of Fuel	Natural Gas		Moisture	8.23	%	Flow Rate (Actual O2)	385910	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	03:15 PM - 03:57 PM	g/s	-	-	<0.054	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

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Client : Global Power Synergy Public Company Limited
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

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Sample Number 2322852-12
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.1	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	8.76	%	Flow Rate (Actual O2)	379512	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:40 AM - 10:42 AM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management

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1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 22 of 30

Sample Number 2322852-12
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.1	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	8.76	%	Flow Rate (Actual O2)	375512	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	10:00 AM - 10:42 AM	g/s	-	-	<0.053	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

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Technical Management

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1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 23 of 30

Sample Number 2322852-13
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.1	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	8.69	%	Flow Rate (Actual O2)	379715	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:55 AM - 11:37 AM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Technical Management

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1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 24 of 30

Sample Number 2322852-13
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.1	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	8.69	%	Flow Rate (Actual O2)	375715	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	10:55 AM - 11:37 AM	g/s	-	-	<0.053	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 25 of 30

Sample Number 2322852-14
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.1	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	9.02	%	Flow Rate (Actual O2)	378599	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:45 AM - 12:27 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
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Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management

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Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
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Sample Number 2322852-14
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.1	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	9.02	%	Flow Rate (Actual O2)	378599	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	11:45 AM - 12:27 PM	g/s	-	-	<0.053	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

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.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
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Approved by

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Dej Changchong
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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 27 of 30

Sample Number 2322852-15
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.5	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.2	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	8.56	%	Flow Rate (Actual O2)	380098	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	12:35 PM - 01:17 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management

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Approved by

D. Chongchong

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 28 of 30

Sample Number 2322852-15
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.5	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.2	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	8.56	%	Flow Rate (Actual O2)	380098	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	12:35 PM - 01:17 PM	g/s	-	-	<0.053	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Kantaphon Maneesampan, Saksit Phaisanphisit

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.

Technical Management

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Approved by

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Dej Changchong
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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 29 of 30

Sample Number 2322852-16
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.6	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.2	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	8.85	%	Flow Rate (Actual O2)	379147	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	01:25 PM - 02:07 PM	mg/m3	-	0.5	<0.5	60	7.108	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management

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D. Chongchong

Dej Changchong
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4



TESTING
No.0042

Lot ID: 2322852
Date Received : Mar 03, 2023
Date Reported : Mar 16, 2023
Report Number: 2580358-1

Page 30 of 30

Sample Number 2322852-15
Sampled Date Mar 05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 04, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.6	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.2	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	18.7	m/s
Type of Fuel	Natural Gas		Moisture	8.85	%	Flow Rate (Actual O2)	375147	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	01:25 PM - 02:07 PM	g/s	-	-	<0.053	-	0.416	Calculated	Rayong

Guideline : Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampled By : Kantaphon Maneesampan , Saksit Phaisanphisit

Remark :

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

Technical Management

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Thanita Kulsuriwong
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Approved by

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Dej Changchon
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received: Mar 03, 2023
Date Reported: Mar 31, 2023
Report Number: 2538269-1

Page 1 of 2

Sample Number 2322852-1
Sampled Date Mar 03-05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Parameter Opacity Correlation

Opacity Correlation Test Report

No. Samples	Date	Time		CEMs Values (Opacity,%)	RM Values (PM at 7%O2, mg/m3)	Percent of Maximum PM Value (%)
		Start	Stop			
1	03 Mar 23	13:15	13:57	5.93	0.10	47.01
2	03 Mar 23	14:00	14:42	5.78	0.10	47.61
3	03 Mar 23	14:50	15:32	5.74	0.10	47.41
4	04 Mar 23	10:20	11:02	4.91	0.10	47.67
5	04 Mar 23	11:08	11:50	5.15	0.10	47.22
6	04 Mar 23	11:55	12:37	4.92	0.10	47.47
7	04 Mar 23	12:45	13:27	5.05	0.10	47.62
8	04 Mar 23	13:35	14:17	4.96	0.10	47.69
9	04 Mar 23	14:25	15:07	4.90	0.10	47.92
10	04 Mar 23	15:15	15:57	4.98	0.10	48.04
11	05 Mar 23	10:00	10:42	4.90	0.10	49.19
12	05 Mar 23	10:55	11:37	4.97	0.10	49.51
13*	05 Mar 23	11:45	12:27	5.10	0.21	99.35
14*	05 Mar 23	12:35	13:17	5.25	0.21	100.00
15	05 Mar 23	13:25	14:07	4.92	0.10	50.19
Average				5.16	0.11	-

Reference Method : US EPA Method 5 / PS-11

Remark : * Sample with * is rejected data

Technical Management

Wichan Choonharat

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ก-6113

Approved by

Sarayuth Jitranont

Sarayuth Jitranont
Assistant General Manager
ทะเบียนเลขที่ ว-204-ก-4702

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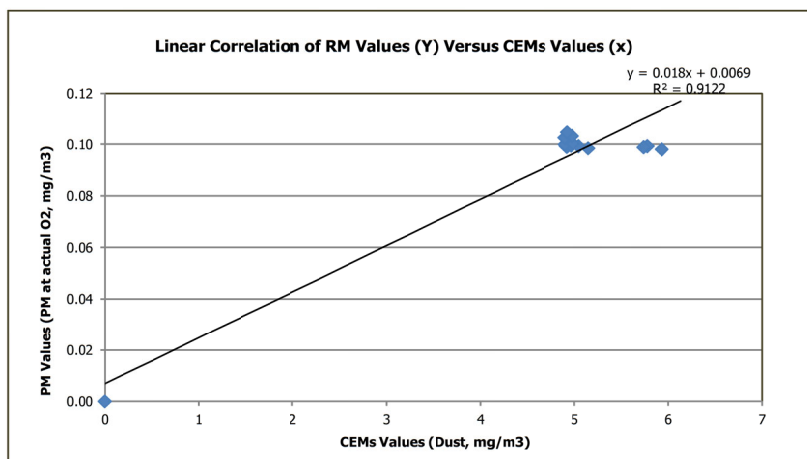
Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322852
Date Received: Mar 03, 2023
Date Reported: Mar 31, 2023
Report Number: 2588269-1

Page 2 of 2

Sample Number 2322852-1
Sample Date Mar 03-05, 2023
Sample Description Emission from Stationary Source
Location HRSGs 1
Parameter Opacity Correlation



Sampled By : Saksit Phaisanphisut

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
เบอร์โทรศัพท์ ๖-204-๖-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2321661
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2580336-1

Page 1 of 1

Sample Description Air Quality
Location วัดประทุมมิตรบางกุ้ง (GPS 47P 0726443, 1407365)
Parameter Nitrogen dioxide (ppm)
Measurement Date Mar 01, 2023 - Mar 08, 2023
Measurement by Mongkon Phalathip

	2321661-1 Mar 01, 2023	2321661-2 Mar 02, 2023	2321661-3 Mar 03, 2023	2321661-4 Mar 04, 2023	2321661-5 Mar 05, 2023	2321661-6 Mar 06, 2023	2321661-7 Mar 07, 2023
Time							
10:00 AM - 11:00 AM	0.027	0.044	0.027	0.027	0.026	0.026	0.033
11:00 AM - 12:00 PM	0.036	0.046	0.030	0.029	0.027	0.030	0.041
12:00 PM - 01:00 PM	0.045	0.044	0.032	0.031	0.028	0.031	0.040
01:00 PM - 02:00 PM	0.046	0.048	0.032	0.032	0.029	0.032	0.037
02:00 PM - 03:00 PM	0.044	0.046	0.035	0.034	0.030	0.034	0.035
03:00 PM - 04:00 PM	0.050	0.043	0.033	0.033	0.030	0.032	0.033
04:00 PM - 05:00 PM	0.046	0.039	0.031	0.032	0.030	0.029	0.031
05:00 PM - 06:00 PM	0.045	0.038	0.030	0.030	0.029	0.026	0.029
06:00 PM - 07:00 PM	0.044	0.035	0.029	0.028	0.026	0.025	0.027
07:00 PM - 08:00 PM	0.044	0.034	0.027	0.025	0.024	0.024	0.026
08:00 PM - 09:00 PM	0.040	0.031	0.026	0.024	0.023	0.025	0.026
09:00 PM - 10:00 PM	0.038	0.029	0.026	0.024	0.023	0.026	0.025
10:00 PM - 11:00 PM	0.034	0.025	0.029	0.023	0.022	0.025	0.024
11:00 PM - 12:00 AM	0.032	0.022	0.026	0.022	0.021	0.024	0.023
12:00 AM - 01:00 AM	0.031	0.022	0.023	0.021	0.020	0.023	0.020
01:00 AM - 02:00 AM	0.030	0.022	0.022	0.021	0.019	0.021	0.019
02:00 AM - 03:00 AM	0.029	0.021	0.022	0.023	0.020	0.022	0.018
03:00 AM - 04:00 AM	0.028	0.022	0.023	0.023	0.021	0.022	0.016
04:00 AM - 05:00 AM	0.024	0.023	0.023	0.024	0.020	0.022	0.013
05:00 AM - 06:00 AM	0.026	0.023	0.022	0.024	0.020	0.019	0.012
06:00 AM - 07:00 AM	0.027	0.025	0.021	0.024	0.021	0.018	0.011
07:00 AM - 08:00 AM	0.028	0.025	0.021	0.024	0.021	0.017	0.012
08:00 AM - 09:00 AM	0.031	0.026	0.024	0.024	0.020	0.017	0.013
09:00 AM - 10:00 AM	0.038	0.026	0.026	0.025	0.020	0.021	0.016
Average	0.036	0.032	0.027	0.026	0.024	0.025	0.024
1hr - Maximum	0.050	0.048	0.035	0.034	0.030	0.034	0.041
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

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Approved by

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2321661
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2595678-1

Page 1 of 1

Sample Description : Air Quality
Location : บ้านสำโรงหลวง (GPS 47° 0728262, 1403382)
Parameter : Nitrogen dioxide (ppm)
Measurement Date : Mar 01, 2023 - Mar 08, 2023
Measurement by : Mongkon Phalathip

Time	2321661-8 Mar 01, 2023	2321661-9 Mar 02, 2023	2321661-10 Mar 03, 2023	2321661-11 Mar 04, 2023	2321661-12 Mar 05, 2023	2321661-13 Mar 06, 2023	2321661-14 Mar 07, 2023
09:00 AM - 10:00 AM	0.003	0.002	<0.001	0.002	0.001	0.001	0.001
10:00 AM - 11:00 AM	0.003	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
11:00 AM - 12:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12:00 PM - 01:00 PM	<0.001	<0.001	<0.001	0.019	<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	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09:00 PM - 10:00 PM	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10:00 PM - 11:00 PM	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11:00 PM - 12:00 AM	0.002	0.002	<0.001	<0.001	0.001	<0.001	<0.001
12:00 AM - 01:00 AM	0.001	0.001	<0.001	<0.001	0.002	<0.001	<0.001
01:00 AM - 02:00 AM	0.001	0.001	<0.001	<0.001	0.002	0.002	<0.001
02:00 AM - 03:00 AM	0.001	0.001	<0.001	<0.001	<0.001	0.001	0.002
03:00 AM - 04:00 AM	0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
04:00 AM - 05:00 AM	0.002	<0.001	<0.001	<0.001	<0.001	0.002	0.001
05:00 AM - 06:00 AM	0.001	<0.001	<0.001	<0.001	0.001	0.002	0.002
06:00 AM - 07:00 AM	0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.008
07:00 AM - 08:00 AM	0.007	<0.001	<0.001	<0.001	0.002	0.004	0.009
08:00 AM - 09:00 AM	0.010	<0.001	0.002	<0.001	0.004	0.005	0.007
Average	0.002	<0.001	<0.001	0.001	<0.001	0.001	0.002
1hr - Maximum	0.010	0.002	0.002	0.019	0.004	0.005	0.009
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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S:\Reports_Air SOxNOx.rpt (5:52PM)



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2321661
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2595681-1

Page 1 of 1

Sample Description : Air Quality
Location : วัดเขาสุกหลุณ (GPS 47P 0730055, 1409674)
Parameter : Nitrogen dioxide (ppm)
Measurement Date : Mar 01, 2023 - Mar 08, 2023
Measurement by : Mongkon Phalathip

Time	2321661-15 Mar 01, 2023	2321661-16 Mar 02, 2023	2321661-17 Mar 03, 2023	2321661-18 Mar 04, 2023	2321661-19 Mar 05, 2023	2321661-20 Mar 06, 2023	2321661-21 Mar 07, 2023
1:00 AM - 12:00 PM	0.006	0.008	0.014	0.007	0.012	0.007	0.008
12:00 PM - 01:00 PM	0.009	0.008	0.007	0.004	0.012	0.006	0.006
01:00 PM - 02:00 PM	0.005	0.008	0.006	0.003	0.005	0.004	0.009
02:00 PM - 03:00 PM	0.005	0.004	0.005	0.003	0.003	0.004	0.005
03:00 PM - 04:00 PM	0.009	0.007	0.005	0.003	0.002	0.003	0.006
04:00 PM - 05:00 PM	0.011	0.006	0.002	0.006	0.003	0.004	0.009
05:00 PM - 06:00 PM	0.008	0.004	0.003	0.006	0.004	0.004	0.011
06:00 PM - 07:00 PM	0.006	0.004	0.003	0.002	0.002	0.004	0.008
07:00 PM - 08:00 PM	0.006	0.002	0.011	0.006	0.002	0.003	0.006
08:00 PM - 09:00 PM	0.007	0.009	0.007	0.005	0.005	0.008	0.006
09:00 PM - 10:00 PM	0.007	0.001	0.012	0.007	0.006	0.007	0.007
10:00 PM - 11:00 PM	0.008	0.003	0.005	0.007	0.006	0.004	0.007
11:00 PM - 12:00 AM	0.029	0.002	0.006	0.009	0.004	0.006	0.008
12:00 AM - 01:00 AM	0.008	0.005	0.008	0.008	0.003	0.007	0.005
01:00 AM - 02:00 AM	0.009	0.004	0.004	0.006	0.002	0.006	0.007
02:00 AM - 03:00 AM	0.009	0.003	0.005	0.026	0.001	0.008	0.006
03:00 AM - 04:00 AM	0.022	0.004	0.004	0.023	0.001	0.006	0.004
04:00 AM - 05:00 AM	0.023	0.004	0.004	0.005	<0.001	0.009	0.004
05:00 AM - 06:00 AM	0.005	0.006	0.012	0.004	0.004	0.007	0.002
06:00 AM - 07:00 AM	0.009	0.009	0.015	0.003	0.003	0.007	0.009
07:00 AM - 08:00 AM	0.005	0.013	0.025	0.003	0.007	0.008	0.005
08:00 AM - 09:00 AM	0.017	0.027	0.008	0.004	0.011	0.003	0.003
09:00 AM - 10:00 AM	0.013	0.020	0.008	0.010	0.012	0.008	0.004
10:00 AM - 11:00 AM	0.018	0.016	0.008	0.012	0.013	0.005	0.004
Average	0.012	0.007	0.008	0.008	0.005	0.006	0.006
1hr - Maximum	0.033	0.027	0.025	0.026	0.013	0.009	0.011
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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S:\Reports_Air SOxNOx.rpt (5:52PM)



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2321661
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2595682-1

Page 1 of 1

Sample Description : Air Quality
Location : วัดบางพลู (GPS 47P 0730821, 1407374)
Parameter : Nitrogen dioxide (ppm)
Measurement Date : Mar 01, 2023 - Mar 08, 2023
Measurement by : Mongkon Phalathip

Time	2321661-22 Mar 01, 2023	2321661-23 Mar 02, 2023	2321661-24 Mar 03, 2023	2321661-25 Mar 04, 2023	2321661-26 Mar 05, 2023	2321661-27 Mar 06, 2023	2321661-28 Mar 07, 2023
12:00 PM - 01:00 PM	0.005	0.005	0.005	0.004	0.006	0.001	<0.001
01:00 PM - 02:00 PM	0.004	0.004	0.004	0.004	0.009	<0.001	<0.001
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.004	0.009	<0.001	<0.001
03:00 PM - 04:00 PM	0.006	0.004	0.003	0.004	0.006	<0.001	<0.001
04:00 PM - 05:00 PM	0.006	0.005	0.003	0.004	0.006	<0.001	<0.001
05:00 PM - 06:00 PM	0.005	0.007	0.003	0.004	0.005	<0.001	<0.001
06:00 PM - 07:00 PM	0.006	0.007	0.004	0.006	0.005	<0.001	<0.001
07:00 PM - 08:00 PM	0.006	0.007	0.006	0.008	0.006	<0.001	<0.001
08:00 PM - 09:00 PM	0.011	0.012	0.006	0.007	0.010	<0.001	<0.001
09:00 PM - 10:00 PM	0.012	0.014	0.014	0.009	0.015	<0.001	<0.001
10:00 PM - 11:00 PM	0.014	0.013	0.013	0.012	0.012	<0.001	<0.001
11:00 PM - 12:00 AM	0.014	0.011	0.014	0.010	0.012	<0.001	<0.001
12:00 AM - 01:00 AM	0.010	0.006	0.009	0.009	0.014	<0.001	<0.001
01:00 AM - 02:00 AM	0.004	0.009	0.006	0.007	0.011	<0.001	<0.001
02:00 AM - 03:00 AM	0.004	0.010	0.005	0.006	0.012	<0.001	<0.001
03:00 AM - 04:00 AM	0.005	0.009	0.007	0.010	0.010	<0.001	<0.001
04:00 AM - 05:00 AM	0.004	0.011	0.007	0.010	0.005	<0.001	<0.001
05:00 AM - 06:00 AM	0.004	0.008	0.006	0.009	0.004	<0.001	<0.001
06:00 AM - 07:00 AM	0.005	0.008	0.005	0.009	0.004	<0.001	<0.001
07:00 AM - 08:00 AM	0.005	0.007	0.007	0.009	0.004	<0.001	<0.001
08:00 AM - 09:00 AM	0.006	0.007	0.011	0.010	0.007	<0.001	0.001
09:00 AM - 10:00 AM	0.010	0.008	0.012	0.010	0.012	0.002	0.002
10:00 AM - 11:00 AM	0.010	0.010	0.011	0.010	0.011	0.002	0.002
11:00 AM - 12:00 PM	0.008	0.008	0.006	0.006	0.008	<0.001	0.002
Average	0.007	0.008	0.007	0.008	0.009	<0.001	<0.001
1hr - Maximum	0.014	0.014	0.014	0.012	0.015	0.002	0.002
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322841
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2580333-1

Page 1 of 1

Sample Description : Air Quality
Location : วัดประทุมมิตรบาง (GPS 47P 0726443, 1407365)
Parameter : Sulfur Dioxide (ppm)
Measurement Date : Mar 01, 2023 - Mar 08, 2023
Measurement by : Mongkon Phalathip

Time	2322841-1 Mar 01, 2023	2322841-2 Mar 02, 2023	2322841-3 Mar 03, 2023	2322841-4 Mar 04, 2023	2322841-5 Mar 05, 2023	2322841-6 Mar 06, 2023	2322841-7 Mar 07, 2023
10:00 AM - 11:00 AM	0.005	0.006	0.005	0.005	0.005	0.006	0.006
11:00 AM - 12:00 PM	0.005	0.006	0.005	0.005	0.005	0.005	0.005
12:00 PM - 01:00 PM	0.005	0.006	0.005	0.005	0.005	0.005	0.005
01:00 PM - 02:00 PM	0.006	0.006	0.005	0.005	0.005	0.006	0.006
02:00 PM - 03:00 PM	0.006	0.006	0.005	0.006	0.006	0.006	0.006
03:00 PM - 04:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
04:00 PM - 05:00 PM	0.005	0.006	0.006	0.006	0.006	0.006	0.006
05:00 PM - 06:00 PM	0.005	0.006	0.006	0.006	0.006	0.006	0.006
06:00 PM - 07:00 PM	0.005	0.006	0.006	0.006	0.006	0.006	0.006
07:00 PM - 08:00 PM	0.005	0.006	0.005	0.006	0.006	0.006	0.006
08:00 PM - 09:00 PM	0.005	0.006	0.005	0.006	0.005	0.006	0.006
09:00 PM - 10:00 PM	0.005	0.006	0.005	0.005	0.005	0.006	0.006
10:00 PM - 11:00 PM	0.005	0.006	0.005	0.005	0.006	0.006	0.005
11:00 PM - 12:00 AM	0.005	0.006	0.005	0.005	0.006	0.006	0.006
12:00 AM - 01:00 AM	0.005	0.006	0.005	0.006	0.005	0.006	0.006
01:00 AM - 02:00 AM	0.005	0.006	0.005	0.005	0.006	0.006	0.006
02:00 AM - 03:00 AM	0.005	0.006	0.006	0.005	0.006	0.006	0.006
03:00 AM - 04:00 AM	0.005	0.005	0.005	0.005	0.006	0.006	0.006
04:00 AM - 05:00 AM	0.005	0.006	0.006	0.005	0.006	0.006	0.006
05:00 AM - 06:00 AM	0.006	0.006	0.006	0.005	0.006	0.006	0.006
06:00 AM - 07:00 AM	0.006	0.006	0.006	0.005	0.006	0.006	0.006
07:00 AM - 08:00 AM	0.006	0.005	0.006	0.005	0.006	0.006	0.006
08:00 AM - 09:00 AM	0.006	0.006	0.006	0.005	0.006	0.006	0.006
09:00 AM - 10:00 AM	0.006	0.005	0.005	0.005	0.006	0.006	0.006
Average	0.005	0.006	0.005	0.005	0.006	0.006	0.006
1hr - Maximum	0.006	0.006	0.006	0.006	0.006	0.006	0.006
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 : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322841
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2595684-1

Page 1 of 1

Sample Description : Air Quality
Location : บ้านสำโรงหนอง (GPS 47° 0728262, 1403382)
Parameter : Sulfur Dioxide (ppm)
Measurement Date : Mar 01, 2023 - Mar 08, 2023
Measurement by : Mongkon Phalathip

Time	2322841-8 Mar 01, 2023	2322841-9 Mar 02, 2023	2322841-10 Mar 03, 2023	2322841-11 Mar 04, 2023	2322841-12 Mar 05, 2023	2322841-13 Mar 06, 2023	2322841-14 Mar 07, 2023
09:00 AM - 10:00 AM	0.004	0.003	0.004	0.004	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.004	0.003	0.004	0.004	0.004	0.004	0.004
11:00 AM - 12:00 PM	0.003	0.003	0.004	0.004	0.004	0.004	0.004
12:00 PM - 01:00 PM	0.003	0.003	0.004	0.004	0.004	0.004	0.004
01:00 PM - 02:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
07:00 PM - 08:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
02:00 AM - 03:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
07:00 AM - 08:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.003	0.004	0.004	0.004	0.004	0.004	0.004
1hr - Maximum	0.004	0.004	0.004	0.004	0.004	0.004	0.004
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 : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322841
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2595686-1

Page 1 of 1

Sample Description : Air Quality
Location : วัดเขาสุกหุญา (GPS 47P 0730055, 1409674)
Parameter : Sulfur Dioxide (ppm)
Measurement Date : Mar 01, 2023 - Mar 08, 2023
Measurement by : Mongkon Phalathip

Time	2322841-15 Mar 01, 2023	2322841-16 Mar 02, 2023	2322841-17 Mar 03, 2023	2322841-18 Mar 04, 2023	2322841-19 Mar 05, 2023	2322841-20 Mar 06, 2023	2322841-21 Mar 07, 2023
1:00 AM - 12:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12:00 PM - 01:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
01:00 PM - 02:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
02:00 PM - 03:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03:00 PM - 04:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04:00 PM - 05:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05:00 PM - 06:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
06:00 PM - 07:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
07:00 PM - 08:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08:00 PM - 09:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09:00 PM - 10:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10:00 PM - 11:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11:00 PM - 12:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12:00 AM - 01:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
01:00 AM - 02:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
02:00 AM - 03:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03:00 AM - 04:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04:00 AM - 05:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05:00 AM - 06:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
06:00 AM - 07:00 AM	0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
07:00 AM - 08:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08:00 AM - 09:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09:00 AM - 10:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
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	0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

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Approved by

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S:\Reports_Air SOxNOx.rpt (5:58PM)



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322841
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2595687-1

Page 1 of 1

Sample Description	Air Quality						
Location	วัดบางพลี (GPS 47P 0730821, 1407374)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Mar 01, 2023 - Mar 08, 2023						
Measurement by	Mongkon Phalathip						
	2322841-22 Mar 01, 2023	2322841-23 Mar 02, 2023	2322841-24 Mar 03, 2023	2322841-25 Mar 04, 2023	2322841-26 Mar 05, 2023	2322841-27 Mar 06, 2023	2322841-28 Mar 07, 2023
Time							
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.002	0.002	0.002	0.002	0.002	0.002	0.002
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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Approved by

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Orawan Rakyong
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4



TESTING
No.0042

Lot ID: 2322843
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2580331-1

Page 1 of 1

Sample Description	Air Quality				
Location	วัดบางพลี (GPS 47P 0726443, 1407362)				
Date Analysis Commenced	Mar 14, 2023				
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2322843-1	Mar 01 - Mar 02, 2023	0.084	0.052	760	31
2322843-2	Mar 02 - Mar 03, 2023	0.090	0.045	760	30
2322843-3	Mar 03 - Mar 04, 2023	0.127	0.055	760	30
2322843-4	Mar 04 - Mar 05, 2023	0.117	0.065	760	31
2322843-5	Mar 05 - Mar 06, 2023	0.105	0.054	760	31
2322843-6	Mar 06 - Mar 07, 2023	0.126	0.070	760	31
2322843-7	Mar 07 - Mar 08, 2023	0.115	0.064	760	31
Guideline		0.33	0.12	-	-

Reference Method

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

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

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

Sampled By : Mongkon Phalathip

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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S:\Reports_Air Ambient\Days.rpt (3:59PM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322843
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2580331-2

Page 1 of 1

Sample Description Air Quality
Location บ้านศาลาลำดวน (GPS 47P 07202G2, 1403302)
Date Analysis Commenced Mar 14, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2322843-8	Mar 01 - Mar 02, 2023	0.139	0.049	760	31
2322843-9	Mar 02 - Mar 03, 2023	0.106	0.040	760	30
2322843-10	Mar 03 - Mar 04, 2023	0.139	0.058	760	30
2322843-11	Mar 04 - Mar 05, 2023	0.132	0.054	760	31
2322843-12	Mar 05 - Mar 06, 2023	0.120	0.057	760	31
2322843-13	Mar 06 - Mar 07, 2023	0.159	0.091	760	31
2322843-14	Mar 07 - Mar 08, 2023	0.128	0.059	760	31
Guideline		0.33	0.12	-	-

Reference Method

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

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

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322843
Date Received : Mar 10, 2023
Date Reported : Mar 16, 2023
Report Number: 2580331-3

Page 1 of 1

Sample Description Air Quality
Location บ้านศาลาลำดวน (GPS 47P 0730055, 1409674)
Date Analysis Commenced Mar 14, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2322843-15	Mar 01 - Mar 02, 2023	0.154	0.089	760	31
2322843-16	Mar 02 - Mar 03, 2023	0.153	0.082	760	30
2322843-17	Mar 03 - Mar 04, 2023	0.196	0.105	760	30
2322843-18	Mar 04 - Mar 05, 2023	0.120	0.085	760	31
2322843-19	Mar 05 - Mar 06, 2023	0.098	0.075	760	31
2322843-20	Mar 06 - Mar 07, 2023	0.200	0.105	760	31
2322843-21	Mar 07 - Mar 08, 2023	0.158	0.096	760	31
Guideline		0.33	0.12	-	-

Reference Method

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

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

Remark :

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

Approved by

Thanita K.

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Scientist (4)

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Analysis / Test Report



TESTING
No.0042

Lot ID: 2322843

Date Received : Mar 10, 2023

Date Reported : Mar 16, 2023

Report Number: 2580331-4

Client: Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Page 1 of 1

Sample Description		Air Quality			
Location		วัดบางนาบึง (GPS 47P 0730021, 1407374)			
Date Analysis Commenced		Mar 14, 2023			
Condition of Sample		Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag			
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2322843-22	Mar 01 - Mar 02, 2023	0.117	0.056	760	31
2322843-23	Mar 02 - Mar 03, 2023	0.094	0.044	760	30
2322843-24	Mar 03 - Mar 04, 2023	0.129	0.056	760	30
2322843-25	Mar 04 - Mar 05, 2023	0.128	0.055	760	31
2322843-26	Mar 05 - Mar 06, 2023	0.103	0.050	760	31
2322843-27	Mar 06 - Mar 07, 2023	0.127	0.057	760	31
2322843-28	Mar 07 - Mar 08, 2023	0.146	0.057	760	31
Guideline		0.33	0.12	-	-

Reference Method

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

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

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

Sampled By : Mongkon Phalathip

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID : 2322842

Date Received : Mar 10, 2023

Date Reported : Mar 20, 2023

Report Number : 2580332-1

Page 1 of 2

Sample Number : 2322842-1 to 7
Parameter : Wind Speed / Wind Direction
Location : วัดบางนาบึง (GPS 47P 0726443, 1407365)
Sampling Date : Mar 01 - Mar 08, 2023
Sampling by : Mongkon Phalathip

Time	Mar 01 - Mar 02, 2023		Mar 02 - Mar 03, 2023		Mar 03 - Mar 04, 2023		Mar 04 - Mar 05, 2023		Mar 05 - Mar 06, 2023		Mar 06 - Mar 07, 2023		Mar 07 - Mar 08, 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	2.9	240.0	WSW	1.7	118.0	ESE	1.0	114.0	ESE	0.8	59.0	ENE	0.8	36.0
11:00 AM - 12:00 PM	2.3	213.0	SSW	2.6	233.0	SW	0.4	242.0	WSW	0.9	14.0	SE	1.4	118.0
12:00 PM - 01:00 PM	2.5	171.0	S	6.1	184.0	S	2.7	124.0	SE	1.6	166.0	SSE	0.1	-
01:00 PM - 02:00 PM	4.0	191.0	S	2.5	171.0	S	1.6	293.0	WNW	1.1	123.0	ESE	0.5	90.0
02:00 PM - 03:00 PM	4.7	228.0	SW	3.8	168.0	SSE	1.3	93.0	E	2.5	182.0	S	1.9	75.0
03:00 PM - 04:00 PM	2.8	180.0	S	2.2	191.0	S	1.4	121.0	ESE	2.5	18.0	S	2.2	150.0
04:00 PM - 05:00 PM	4.3	234.0	SW	2.1	204.0	SSW	1.5	169.0	S	0.7	185.0	S	2.0	128.0
05:00 PM - 06:00 PM	2.5	247.0	WSW	2.9	255.0	WSW	1.6	175.0	S	0.8	262.0	W	2.3	237.0
06:00 PM - 07:00 PM	1.2	296.0	WNW	1.9	236.0	SW	0.8	229.0	SW	1.0	269.0	W	0.5	247.0
07:00 PM - 08:00 PM	0.4	279.0	W	1.4	254.0	WSW	0.2	-	-	0.5	283.0	WNW	0.4	191.0
08:00 PM - 09:00 PM	0.2	-	-	0.1	-	-	0.3	272.0	W	0.3	31.0	NW	0.2	-
09:00 PM - 10:00 PM	0.1	-	-	0.6	281.0	W	0.3	278.0	W	0.5	31.0	NW	0.1	-
10:00 PM - 11:00 PM	0.5	334.0	NNW	0.3	281.0	W	0.7	312.0	NW	0.3	316.0	NW	0.3	250.0
11:00 PM - 12:00 AM	0.7	359.0	N	1.7	0.0	N	0.8	319.0	NW	0.2	-	-	0.3	285.0
12:00 AM - 01:00 AM	1.1	341.0	NNW	0.6	308.0	NW	0.6	310.0	NW	0.3	325.0	NW	0.3	296.0
01:00 AM - 02:00 AM	1.5	354.0	N	1.3	317.0	NW	0.3	304.0	NW	0.2	-	-	0.7	290.0
02:00 AM - 03:00 AM	0.6	348.0	NNW	2.0	16.0	NNE	0.2	-	-	1.5	307.0	NW	0.3	273.0
03:00 AM - 04:00 AM	0.5	12.0	NNE	3.0	31.0	NNE	0.2	-	-	1.2	354.0	N	0.2	-
04:00 AM - 05:00 AM	0.7	60.0	ENE	1.2	18.0	NNE	1.2	320.0	NW	1.3	354.0	N	0.5	315.0
05:00 AM - 06:00 AM	0.2	-	-	2.4	49.0	NE	0.9	321.0	NW	1.3	359.0	N	0.3	315.0
06:00 AM - 07:00 AM	0.3	49.0	NE	3.1	30.0	NNE	1.0	359.0	N	1.4	0.0	N	1.2	315.0
07:00 AM - 08:00 AM	0.8	340.0	NNW	3.7	56.0	NE	1.1	6.0	N	1.3	4.0	N	0.6	353.0
08:00 AM - 09:00 AM	1.1	9.0	N	3.0	66.0	ENE	1.0	40.0	NE	1.2	18.0	NNE	1.8	28.0
09:00 AM - 10:00 AM	1.8	123.0	ESE	2.6	80.0	E	1.5	6.0	N	2.0	2.0	N	0.7	29.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayu J.

Sarayuth Jitranont
Assistant General Manager

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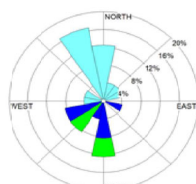
Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

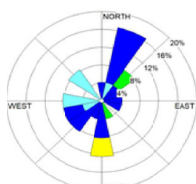
Lot ID : 2322842
Date Received : Mar 10, 2023
Date Reported : Mar 20, 2023
Report Number : 2580332-1

Page 2 of 2

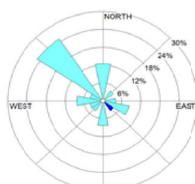
Wind Rose



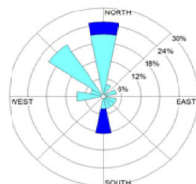
Date : Mar 01-02, 2023



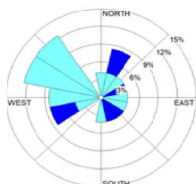
Date : Mar 02-03, 2023



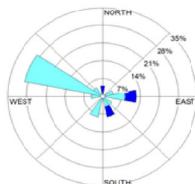
Date : Mar 03-04, 2023



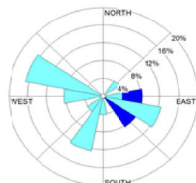
Date : Mar 04-05, 2023



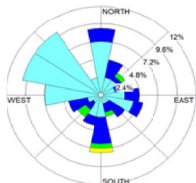
Date : Mar 05-06, 2023



Date : Mar 06-07, 2023



Date : Mar 07-08, 2023



Date : Mar 01-08, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.60
3.3-5.5	2.97
1.7-3.3	20.83
0.3-1.7	61.91
Calms	13.69

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Approved by

Sarayuth Jitratan
Assistant General Manager

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2322849
Date Received : Mar 03, 2023
Date Reported : Mar 13, 2023
Report Number: 2580361-2

Page 1 of 1

Sample Number : 2322849-1
Sampled Date : Mar 03, 2023
Sample Description : Emission from Stationary Source
Location : HRSs 1
Date Analysis Commenced : Mar 04, 2023
Condition of Sample : Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated

Stack Description

Ambient Pressure	760	mmHg	Diameter	3.30	m	Oxygen	13.7	%
Ambient Temperature	32.0	°C	Shape	Circe		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	19.3	m/s
Type of Fuel	Natural Gas		Moisture	8.51	%	Flow Rate (Actual O2)	392862	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂ at 13.7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ammonia	01:15 PM - 01:45 PM	ppm	-	0.02	0.55 0.28	-	-	In-house method based on Method of Air Sampling and Analysis, 401	Rayong

Sampled By : Jaradrawee Sriruksa

Remark :

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

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Approved by

Thanita Kulsuriwong
Scientist (4)

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6403-74/EMAIL

S:\Reports_Air Stack_O2_2GL.rpt (2:30PM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595109-1

Page 1 of 1

Sample Number 2322844-1
Parameter Noise (Leq 24 hrs)
Location บริเวณริมรั้วโรงงานด้านทางเข้าโครงการ (GPS 47P 0727958, 1405412)
Measurement Date Mar 01 - Mar 02, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.6	76.4	45.2
11:00 AM - 12:00 PM	52.8	74.1	47.6
12:00 PM - 01:00 PM	54.7	74.8	47.8
01:00 PM - 02:00 PM	52.8	75.6	46.6
02:00 PM - 03:00 PM	53.3	76.6	47.0
03:00 PM - 04:00 PM	56.2	76.7	47.7
04:00 PM - 05:00 PM	61.0	88.8	48.3
05:00 PM - 06:00 PM	59.4	92.7	47.7
06:00 PM - 07:00 PM	53.8	88.6	47.5
07:00 PM - 08:00 PM	50.1	69.5	48.3
08:00 PM - 09:00 PM	50.6	73.1	48.3
09:00 PM - 10:00 PM	49.3	71.0	47.6
10:00 PM - 11:00 PM	49.8	69.9	47.8
11:00 PM - 12:00 AM	49.4	61.0	48.6
12:00 AM - 01:00 AM	49.8	61.7	48.9
01:00 AM - 02:00 AM	50.6	67.4	48.9
02:00 AM - 03:00 AM	49.1	68.9	48.2
03:00 AM - 04:00 AM	50.5	73.0	47.0
04:00 AM - 05:00 AM	56.8	77.2	47.8
05:00 AM - 06:00 AM	56.3	81.7	48.4
06:00 AM - 07:00 AM	56.2	81.7	45.6
07:00 AM - 08:00 AM	53.4	73.0	45.5
08:00 AM - 09:00 AM	53.9	76.9	46.0
09:00 AM - 10:00 AM	59.8	87.3	46.3

Leq Average 24 hrs. (dB(A)) 55.0

Lmax (dB(A)) 92.7

L90 (dB(A)) 47.7

Ldn (dB(A)) 60.1

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and : 996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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6403-74/ EMAIL

S:\Reports_Air Noise.rpt (10:41AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595110-1

Page 1 of 1

Sample Number 2322844-2
Parameter Noise (Leq 24 hrs)
Location บริเวณริมรั้วโรงงานด้านทางเข้าโครงการ (GPS 47P 0727958, 1405412)
Measurement Date Mar 02 - Mar 03, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.2	75.3	45.5
11:00 AM - 12:00 PM	52.6	73.2	46.5
12:00 PM - 01:00 PM	52.3	72.9	47.3
01:00 PM - 02:00 PM	51.5	77.3	47.0
02:00 PM - 03:00 PM	52.9	76.3	47.8
03:00 PM - 04:00 PM	54.7	76.0	47.9
04:00 PM - 05:00 PM	55.4	78.8	48.3
05:00 PM - 06:00 PM	52.0	77.2	47.9
06:00 PM - 07:00 PM	49.5	69.1	48.2
07:00 PM - 08:00 PM	50.2	71.8	47.8
08:00 PM - 09:00 PM	50.2	70.8	47.7
09:00 PM - 10:00 PM	53.2	84.1	48.9
10:00 PM - 11:00 PM	52.3	72.3	50.3
11:00 PM - 12:00 AM	51.2	61.9	50.2
12:00 AM - 01:00 AM	51.2	67.4	49.8
01:00 AM - 02:00 AM	50.4	66.2	49.1
02:00 AM - 03:00 AM	49.8	72.1	48.1
03:00 AM - 04:00 AM	51.5	79.5	48.2
04:00 AM - 05:00 AM	55.7	76.7	48.3
05:00 AM - 06:00 AM	55.2	81.2	47.6
06:00 AM - 07:00 AM	55.0	81.8	47.1
07:00 AM - 08:00 AM	53.6	76.5	45.7
08:00 AM - 09:00 AM	51.1	72.3	45.1
09:00 AM - 10:00 AM	53.2	75.2	45.1

Leq Average 24 hrs. (dB(A)) 52.8

Lmax (dB(A)) 84.1

L90 (dB(A)) 47.8

Ldn (dB(A)) 59.4

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:41AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595111-1

Page 1 of 1

Sample Number 2322844-3
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มรั้วโรงงานด้านทางเข้าโครงการ (GPS 47P 0727958, 1405412)
Measurement Date Mar 03 - Mar 04, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.4	84.3	45.2
11:00 AM - 12:00 PM	52.5	74.3	46.1
12:00 PM - 01:00 PM	51.9	74.9	48.2
01:00 PM - 02:00 PM	54.2	76.7	48.0
02:00 PM - 03:00 PM	54.1	76.9	48.3
03:00 PM - 04:00 PM	54.8	73.8	49.0
04:00 PM - 05:00 PM	55.1	77.9	48.8
05:00 PM - 06:00 PM	52.4	81.6	48.5
06:00 PM - 07:00 PM	49.8	68.8	47.8
07:00 PM - 08:00 PM	49.6	71.9	47.6
08:00 PM - 09:00 PM	50.1	66.6	49.3
09:00 PM - 10:00 PM	51.7	69.9	49.9
10:00 PM - 11:00 PM	50.3	69.2	48.5
11:00 PM - 12:00 AM	50.3	69.6	48.2
12:00 AM - 01:00 AM	50.6	71.8	48.2
01:00 AM - 02:00 AM	50.7	60.3	49.4
02:00 AM - 03:00 AM	51.1	65.4	49.7
03:00 AM - 04:00 AM	51.9	79.5	49.3
04:00 AM - 05:00 AM	55.4	72.4	49.7
05:00 AM - 06:00 AM	54.5	76.4	49.1
06:00 AM - 07:00 AM	53.3	75.9	48.5
07:00 AM - 08:00 AM	55.7	82.5	47.5
08:00 AM - 09:00 AM	52.3	72.1	47.0
09:00 AM - 10:00 AM	53.3	87.2	46.4

Leq Average 24 hrs. (dB(A)) 53.1

Lmax (dB(A)) 87.2

L90 (dB(A)) 48.3

Ldn (dB(A)) 59.0

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and : 996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:42AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595112-1

Page 1 of 1

Sample Number 2322844-4
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มรั้วโรงงานด้านทางเข้าโครงการ (GPS 47P 0727958, 1405412)
Measurement Date Mar 04 - Mar 05, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	57.7	87.7	47.6
11:00 AM - 12:00 PM	52.7	72.1	48.5
12:00 PM - 01:00 PM	52.8	70.0	48.6
01:00 PM - 02:00 PM	52.6	75.0	48.1
02:00 PM - 03:00 PM	53.7	82.4	47.0
03:00 PM - 04:00 PM	52.9	75.4	47.5
04:00 PM - 05:00 PM	54.3	74.5	48.6
05:00 PM - 06:00 PM	52.7	82.5	49.2
06:00 PM - 07:00 PM	51.3	73.9	49.5
07:00 PM - 08:00 PM	50.7	73.2	49.2
08:00 PM - 09:00 PM	51.4	73.7	48.5
09:00 PM - 10:00 PM	49.6	64.4	48.2
10:00 PM - 11:00 PM	52.7	75.6	49.7
11:00 PM - 12:00 AM	50.8	61.7	50.1
12:00 AM - 01:00 AM	50.8	69.0	48.7
01:00 AM - 02:00 AM	49.9	66.2	48.7
02:00 AM - 03:00 AM	49.4	56.7	48.3
03:00 AM - 04:00 AM	52.2	78.7	48.3
04:00 AM - 05:00 AM	56.8	81.3	49.1
05:00 AM - 06:00 AM	52.6	73.8	48.5
06:00 AM - 07:00 AM	54.2	70.6	48.2
07:00 AM - 08:00 AM	54.1	77.9	46.3
08:00 AM - 09:00 AM	51.3	73.0	47.3
09:00 AM - 10:00 AM	50.7	67.9	47.0

Leq Average 24 hrs. (dB(A)) 52.9

Lmax (dB(A)) 87.7

L90 (dB(A)) 48.5

Ldn (dB(A)) 59.2

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:42AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595113-1

Page 1 of 1

Sample Number 2322844-5
Parameter Noise (Leq 24 hrs)
Location บริเวณริมรั้วโรงงานด้านทางเข้าโครงการ (GPS 47P 0727958, 1405412)
Measurement Date Mar 05 - Mar 06, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.3	76.6	45.6
11:00 AM - 12:00 PM	58.0	82.9	48.4
12:00 PM - 01:00 PM	52.5	77.9	48.1
01:00 PM - 02:00 PM	51.6	68.0	48.2
02:00 PM - 03:00 PM	51.0	73.1	47.5
03:00 PM - 04:00 PM	51.3	71.5	47.8
04:00 PM - 05:00 PM	54.9	76.1	47.9
05:00 PM - 06:00 PM	52.1	75.7	49.0
06:00 PM - 07:00 PM	51.3	71.5	49.8
07:00 PM - 08:00 PM	51.7	71.9	49.6
08:00 PM - 09:00 PM	51.2	77.7	49.5
09:00 PM - 10:00 PM	51.2	69.9	48.7
10:00 PM - 11:00 PM	50.1	65.1	48.7
11:00 PM - 12:00 AM	51.0	66.6	49.4
12:00 AM - 01:00 AM	50.9	68.7	50.0
01:00 AM - 02:00 AM	50.7	63.3	49.4
02:00 AM - 03:00 AM	51.0	69.2	48.7
03:00 AM - 04:00 AM	53.0	79.2	49.7
04:00 AM - 05:00 AM	57.8	81.5	50.4
05:00 AM - 06:00 AM	55.3	79.9	48.7
06:00 AM - 07:00 AM	53.3	79.3	47.2
07:00 AM - 08:00 AM	52.4	82.9	46.5
08:00 AM - 09:00 AM	50.1	65.1	47.0
09:00 AM - 10:00 AM	51.9	73.1	46.8

Leq Average 24 hrs. (dB(A)) 53.0

Lmax (dB(A))

82.9

L90 (dB(A))

48.7

Ldn (dB(A))

59.7

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and : 996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:43AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595114-1

Page 1 of 1

Sample Number 2322844-6
Parameter Noise (Leq 24 hrs)
Location บริเวณริมรั้วโรงงานด้านทางเข้าโครงการ (GPS 47P 0727958, 1405412)
Measurement Date Mar 06 - Mar 07, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.9	75.2	47.1
11:00 AM - 12:00 PM	51.6	73.6	46.2
12:00 PM - 01:00 PM	50.3	68.5	47.3
01:00 PM - 02:00 PM	50.7	71.5	48.1
02:00 PM - 03:00 PM	54.0	76.7	47.5
03:00 PM - 04:00 PM	51.8	76.0	47.4
04:00 PM - 05:00 PM	52.8	78.1	47.6
05:00 PM - 06:00 PM	58.3	83.2	49.7
06:00 PM - 07:00 PM	52.4	82.7	49.5
07:00 PM - 08:00 PM	51.0	62.9	49.5
08:00 PM - 09:00 PM	50.5	64.6	49.1
09:00 PM - 10:00 PM	50.8	66.1	49.6
10:00 PM - 11:00 PM	53.4	73.5	50.6
11:00 PM - 12:00 AM	52.3	74.1	51.0
12:00 AM - 01:00 AM	54.3	62.1	50.9
01:00 AM - 02:00 AM	51.4	56.9	50.6
02:00 AM - 03:00 AM	52.1	59.0	50.6
03:00 AM - 04:00 AM	50.3	63.4	48.9
04:00 AM - 05:00 AM	53.7	80.3	48.1
05:00 AM - 06:00 AM	56.9	77.4	48.5
06:00 AM - 07:00 AM	56.0	77.3	47.0
07:00 AM - 08:00 AM	53.8	76.6	45.5
08:00 AM - 09:00 AM	54.9	77.1	46.6
09:00 AM - 10:00 AM	53.3	73.2	45.6

Leq Average 24 hrs. (dB(A)) 53.5

Lmax (dB(A))

83.2

L90 (dB(A))

48.1

Ldn (dB(A))

60.2

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:43AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595115-1

Page 1 of 1

Sample Number 2322844-7
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มรั้วโรงงานด้านทางเข้าโครงการ (GPS 47P 0727958, 1405412)
Measurement Date Mar 07 - Mar 08, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597168

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.6	73.4	45.1
11:00 AM - 12:00 PM	53.5	79.6	45.9
12:00 PM - 01:00 PM	55.5	76.7	48.1
01:00 PM - 02:00 PM	52.3	74.0	48.2
02:00 PM - 03:00 PM	53.5	75.1	48.5
03:00 PM - 04:00 PM	55.1	76.0	48.7
04:00 PM - 05:00 PM	54.7	75.7	48.5
05:00 PM - 06:00 PM	58.3	86.3	48.5
06:00 PM - 07:00 PM	51.6	81.1	49.2
07:00 PM - 08:00 PM	50.3	71.9	48.9
08:00 PM - 09:00 PM	50.9	71.5	48.9
09:00 PM - 10:00 PM	51.8	75.6	48.5
10:00 PM - 11:00 PM	51.3	72.2	48.9
11:00 PM - 12:00 AM	51.5	68.5	49.5
12:00 AM - 01:00 AM	51.6	63.6	50.3
01:00 AM - 02:00 AM	51.5	63.8	50.1
02:00 AM - 03:00 AM	51.5	61.2	50.5
03:00 AM - 04:00 AM	51.7	61.5	50.6
04:00 AM - 05:00 AM	54.1	78.1	50.8
05:00 AM - 06:00 AM	57.2	78.5	50.5
06:00 AM - 07:00 AM	57.3	81.2	49.5
07:00 AM - 08:00 AM	53.8	77.9	46.6
08:00 AM - 09:00 AM	54.3	76.1	45.7
09:00 AM - 10:00 AM	55.8	79.4	47.0

Leq Average 24 hrs. (dB(A)) 54.0

Lmax (dB(A)) 86.3

L90 (dB(A)) 48.7

Ldn (dB(A)) 60.3

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and : 996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:43AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595116-1

Page 1 of 1

Sample Number 2322844-8
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมอวัง (GPS 47P 0728253, 1403369)
Measurement Date Mar 01 - Mar 02, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.6	75.9	43.5
10:00 AM - 11:00 AM	49.5	76.6	43.9
11:00 AM - 12:00 PM	50.1	72.5	44.3
12:00 PM - 01:00 PM	50.9	69.8	44.8
01:00 PM - 02:00 PM	50.7	71.7	45.5
02:00 PM - 03:00 PM	51.2	78.7	44.4
03:00 PM - 04:00 PM	49.3	75.0	43.6
04:00 PM - 05:00 PM	50.0	71.1	44.9
05:00 PM - 06:00 PM	53.5	67.5	52.8
06:00 PM - 07:00 PM	50.9	60.9	47.8
07:00 PM - 08:00 PM	48.7	61.0	47.7
08:00 PM - 09:00 PM	47.5	54.5	45.6
09:00 PM - 10:00 PM	47.7	69.6	45.6
10:00 PM - 11:00 PM	49.3	61.5	48.0
11:00 PM - 12:00 AM	47.6	62.7	45.8
12:00 AM - 01:00 AM	46.5	63.2	45.4
01:00 AM - 02:00 AM	46.4	62.2	44.6
02:00 AM - 03:00 AM	47.2	62.1	45.1
03:00 AM - 04:00 AM	52.3	73.8	48.5
04:00 AM - 05:00 AM	56.4	76.2	47.1
05:00 AM - 06:00 AM	50.7	71.2	44.7
06:00 AM - 07:00 AM	49.9	69.3	44.5
07:00 AM - 08:00 AM	50.6	73.3	44.1
08:00 AM - 09:00 AM	49.0	69.6	44.1

Leq Average 24 hrs. (dB(A)) 50.5

Lmax (dB(A)) 78.7

L90 (dB(A)) 44.9

Ldn (dB(A)) 57.2

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:44AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595117-1

Page 1 of 1

Sample Number 2322844-9
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมอวัง (GPS 47P 0728253, 1403369)
Measurement Date Mar 02 - Mar 03, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	48.4	73.7	43.6
10:00 AM - 11:00 AM	48.7	76.0	43.1
11:00 AM - 12:00 PM	49.1	62.4	43.3
12:00 PM - 01:00 PM	50.7	71.1	44.3
01:00 PM - 02:00 PM	50.9	68.0	44.9
02:00 PM - 03:00 PM	49.2	69.7	44.9
03:00 PM - 04:00 PM	47.3	70.7	43.4
04:00 PM - 05:00 PM	47.3	71.1	44.5
05:00 PM - 06:00 PM	48.6	72.0	46.3
06:00 PM - 07:00 PM	47.9	70.3	45.4
07:00 PM - 08:00 PM	49.6	63.1	48.8
08:00 PM - 09:00 PM	50.7	62.6	49.8
09:00 PM - 10:00 PM	50.2	69.7	49.1
10:00 PM - 11:00 PM	48.7	58.7	47.6
11:00 PM - 12:00 AM	48.6	65.3	47.2
12:00 AM - 01:00 AM	48.4	59.6	47.3
01:00 AM - 02:00 AM	49.9	76.8	47.8
02:00 AM - 03:00 AM	52.0	79.6	47.1
03:00 AM - 04:00 AM	53.4	79.2	49.1
04:00 AM - 05:00 AM	63.3	97.6	49.6
05:00 AM - 06:00 AM	63.3	92.8	48.7
06:00 AM - 07:00 AM	53.0	81.4	43.7
07:00 AM - 08:00 AM	49.6	72.6	44.0
08:00 AM - 09:00 AM	48.1	72.2	43.5

Leq Average 24 hrs. (dB(A)) 54.3

Lmax (dB(A)) 97.6

L90 (dB(A)) 45.4

Ldn (dB(A)) 63.4

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and : 996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:44AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595118-1

Page 1 of 1

Sample Number 2322844-10
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมอวัง (GPS 47P 0728253, 1403369)
Measurement Date Mar 03 - Mar 04, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.1	66.3	44.1
10:00 AM - 11:00 AM	48.5	74.6	43.6
11:00 AM - 12:00 PM	53.6	73.5	45.6
12:00 PM - 01:00 PM	51.5	75.9	45.7
01:00 PM - 02:00 PM	50.8	65.2	46.0
02:00 PM - 03:00 PM	50.6	71.0	45.7
03:00 PM - 04:00 PM	51.1	79.1	44.4
04:00 PM - 05:00 PM	47.2	68.7	44.3
05:00 PM - 06:00 PM	51.2	79.0	46.9
06:00 PM - 07:00 PM	47.3	70.1	45.6
07:00 PM - 08:00 PM	47.6	69.1	45.6
08:00 PM - 09:00 PM	46.9	65.9	45.2
09:00 PM - 10:00 PM	49.5	59.5	45.2
10:00 PM - 11:00 PM	50.8	66.1	49.1
11:00 PM - 12:00 AM	49.5	63.4	47.9
12:00 AM - 01:00 AM	48.7	58.2	47.6
01:00 AM - 02:00 AM	48.7	63.5	47.1
02:00 AM - 03:00 AM	48.6	58.5	47.2
03:00 AM - 04:00 AM	53.0	67.5	49.1
04:00 AM - 05:00 AM	51.4	64.2	48.5
05:00 AM - 06:00 AM	52.5	66.4	48.2
06:00 AM - 07:00 AM	49.7	70.9	45.9
07:00 AM - 08:00 AM	50.6	71.0	45.1
08:00 AM - 09:00 AM	47.3	67.1	44.1

Leq Average 24 hrs. (dB(A)) 50.2

Lmax (dB(A)) 79.1

L90 (dB(A)) 45.7

Ldn (dB(A)) 56.9

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:45AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595119-1

Page 1 of 1

Sample Number 2322844-11
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมอวัง (GPS 47P 0728253, 1403369)
Measurement Date Mar 04 - Mar 05, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.1	75.5	44.6
10:00 AM - 11:00 AM	50.4	74.3	45.4
11:00 AM - 12:00 PM	50.3	71.0	45.7
12:00 PM - 01:00 PM	50.4	70.6	45.8
01:00 PM - 02:00 PM	50.2	68.7	45.2
02:00 PM - 03:00 PM	49.8	67.8	45.1
03:00 PM - 04:00 PM	48.7	70.9	44.7
04:00 PM - 05:00 PM	48.0	70.0	44.3
05:00 PM - 06:00 PM	46.7	71.1	44.6
06:00 PM - 07:00 PM	46.3	65.6	44.5
07:00 PM - 08:00 PM	49.2	60.5	47.9
08:00 PM - 09:00 PM	48.4	58.7	47.8
09:00 PM - 10:00 PM	51.9	81.7	46.7
10:00 PM - 11:00 PM	52.5	81.0	46.2
11:00 PM - 12:00 AM	47.9	57.4	46.6
12:00 AM - 01:00 AM	48.4	64.9	47.2
01:00 AM - 02:00 AM	48.7	56.0	47.5
02:00 AM - 03:00 AM	48.9	59.7	47.6
03:00 AM - 04:00 AM	52.9	87.3	49.0
04:00 AM - 05:00 AM	52.6	73.0	48.4
05:00 AM - 06:00 AM	50.9	73.7	46.8
06:00 AM - 07:00 AM	50.1	67.6	46.0
07:00 AM - 08:00 AM	49.8	65.4	46.1
08:00 AM - 09:00 AM	49.6	70.0	45.3

Leq Average 24 hrs. (dB(A)) 50.0

Lmax (dB(A)) 87.3

L90 (dB(A)) 46.0

Ldn (dB(A)) 57.0

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and : 996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:45AM)



Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595120-1

Page 1 of 1

Sample Number 2322844-12
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมอวัง (GPS 47P 0728253, 1403369)
Measurement Date Mar 05 - Mar 06, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.6	74.4	45.1
10:00 AM - 11:00 AM	50.5	74.7	45.7
11:00 AM - 12:00 PM	51.6	68.2	46.4
12:00 PM - 01:00 PM	50.5	68.6	45.9
01:00 PM - 02:00 PM	51.0	72.1	45.6
02:00 PM - 03:00 PM	54.0	73.9	45.0
03:00 PM - 04:00 PM	47.8	74.7	43.8
04:00 PM - 05:00 PM	48.0	71.3	43.5
05:00 PM - 06:00 PM	55.9	93.8	44.3
06:00 PM - 07:00 PM	48.3	64.4	44.4
07:00 PM - 08:00 PM	50.8	63.8	49.6
08:00 PM - 09:00 PM	51.6	67.0	50.6
09:00 PM - 10:00 PM	50.8	76.0	48.9
10:00 PM - 11:00 PM	49.4	64.9	48.2
11:00 PM - 12:00 AM	47.9	62.5	46.5
12:00 AM - 01:00 AM	47.0	56.0	45.6
01:00 AM - 02:00 AM	48.2	59.7	46.7
02:00 AM - 03:00 AM	49.3	64.7	47.6
03:00 AM - 04:00 AM	53.8	75.0	50.3
04:00 AM - 05:00 AM	52.1	76.6	48.5
05:00 AM - 06:00 AM	51.5	72.1	46.7
06:00 AM - 07:00 AM	50.1	69.5	45.2
07:00 AM - 08:00 AM	52.6	56.0	48.6
08:00 AM - 09:00 AM	49.2	69.7	44.7

Leq Average 24 hrs. (dB(A)) 51.1

Lmax (dB(A)) 93.8

L90 (dB(A)) 45.9

Ldn (dB(A)) 57.0

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595121-1

Page 1 of 1

Sample Number 2322844-13
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมอวัง (GPS 47P 0728253, 1403369)
Measurement Date Mar 06 - Mar 07, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	50.6	79.4	44.6
10:00 AM - 11:00 AM	48.9	69.5	44.6
11:00 AM - 12:00 PM	48.4	71.7	44.2
12:00 PM - 01:00 PM	49.7	82.4	44.7
01:00 PM - 02:00 PM	50.6	69.2	45.2
02:00 PM - 03:00 PM	52.7	73.4	45.0
03:00 PM - 04:00 PM	50.5	66.3	45.2
04:00 PM - 05:00 PM	48.4	70.6	44.4
05:00 PM - 06:00 PM	48.0	76.9	45.0
06:00 PM - 07:00 PM	46.9	63.1	45.5
07:00 PM - 08:00 PM	47.5	68.8	45.3
08:00 PM - 09:00 PM	47.8	65.3	45.5
09:00 PM - 10:00 PM	46.9	62.2	45.8
10:00 PM - 11:00 PM	46.9	69.0	45.5
11:00 PM - 12:00 AM	46.6	60.2	45.4
12:00 AM - 01:00 AM	47.1	72.1	45.3
01:00 AM - 02:00 AM	46.7	57.0	45.5
02:00 AM - 03:00 AM	47.1	62.9	45.7
03:00 AM - 04:00 AM	47.3	64.8	45.7
04:00 AM - 05:00 AM	52.7	65.9	48.6
05:00 AM - 06:00 AM	51.9	76.4	47.8
06:00 AM - 07:00 AM	53.6	75.8	45.4
07:00 AM - 08:00 AM	48.4	62.5	44.7
08:00 AM - 09:00 AM	49.5	73.6	42.0

Leq Average 24 hrs. (dB(A)) 49.5

Lmax (dB(A)) 82.4

L90 (dB(A)) 45.3

Ldn (dB(A)) 55.2

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and : 996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2322844

Date Received : Mar 10, 2023

Date Reported : Mar 22, 2023

Report Number: 2595122-1

Page 1 of 1

Sample Number 2322844-14
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมอวัง (GPS 47P 0728253, 1403369)
Measurement Date Mar 07 - Mar 08, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.1	72.8	43.1
10:00 AM - 11:00 AM	50.1	73.0	44.5
11:00 AM - 12:00 PM	49.9	72.6	45.3
12:00 PM - 01:00 PM	53.1	80.1	45.7
01:00 PM - 02:00 PM	51.7	76.1	45.4
02:00 PM - 03:00 PM	53.4	78.1	46.8
03:00 PM - 04:00 PM	55.5	81.2	46.9
04:00 PM - 05:00 PM	48.1	67.5	44.2
05:00 PM - 06:00 PM	45.6	61.1	44.2
06:00 PM - 07:00 PM	46.7	65.2	44.4
07:00 PM - 08:00 PM	46.7	65.9	45.3
08:00 PM - 09:00 PM	48.5	73.8	45.3
09:00 PM - 10:00 PM	47.5	71.5	46.0
10:00 PM - 11:00 PM	46.5	55.0	45.5
11:00 PM - 12:00 AM	47.1	58.3	45.5
12:00 AM - 01:00 AM	47.4	63.3	45.6
01:00 AM - 02:00 AM	47.0	55.1	45.8
02:00 AM - 03:00 AM	46.7	58.6	45.1
03:00 AM - 04:00 AM	48.1	64.9	45.5
04:00 AM - 05:00 AM	54.1	77.9	49.1
05:00 AM - 06:00 AM	53.5	77.1	48.9
06:00 AM - 07:00 AM	50.0	65.6	46.3
07:00 AM - 08:00 AM	49.8	70.2	45.5
08:00 AM - 09:00 AM	49.8	74.6	45.3

Leq Average 24 hrs. (dB(A)) 50.4

Lmax (dB(A)) 81.2

L90 (dB(A)) 45.5

Ldn (dB(A)) 56.5

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanta Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (10:46AM)



Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
:/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :
Project Name : Monitoring
Project Location: CUP 4

Lot ID: 232992
Date Received : Jan 10, 2023
Date Reported : Jan 17, 2023
Report Number : 2538658-1

Page 1 of 1

Sample Number	232992-1
Sampled Date	Jan 10, 2023 3:10 PM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Jan 10, 2023
Condition of Sample	Contained in one BOD bottle , one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	5	32	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - b (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	28.2	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	344	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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 : Tanasit Wongsachai ทะเนซิต วงศ์ชาติ ว-323-จ-9460 , Thanasoun Namakunna ทะเนซัน นามะคุนนา ว-204-จ-8592

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

N. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Chanachon

Dei Chanachon
Senior Manager
ทะเบียนเลขที่ ว-323-จ-9442

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Analysis / Test Report

TESTING
No.0009

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :
Project Name : Monitoring
Project Location: CUP 4

Lot ID: 232992
Date Received : Jan 10, 2023
Date Reported : Jan 17, 2023
Report Number : 2538658-2

Page 1 of 2

Sample Number	232992-1
Sampled Date	Jan 10, 2023 3:10 PM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Jan 10, 2023
Condition of Sample	Contained in one BOD bottle , one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.69	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	88	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	520	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	8.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.000	No Standard	Flow meter	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	18.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO2 (D)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	89	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	120	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	9.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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Approved by

S. Nitsangiam

Switree Nitsangiam
Manager

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
:/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location: CUP 4



TESTING
No.0009

Lot ID: 232992

Date Received : Jan 10, 2023

Date Reported : Jan 17, 2023

Report Number : 2538658-2

Page 2 of 2

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 :

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.

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Approved by

Sawitree N.

Sawitree Nitsangiam
Manager

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location: CUP 4



TESTING
No.0042

Lot ID: 2315927

Date Received : Feb 14, 2023

Date Reported : Feb 21, 2023

Report Number : 2567753-1

Page 1 of 1

Sample Number	2315927-1
Sampled Date	Feb 14, 2023 2 10 PM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Feb 14, 2023
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	31.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	212	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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 : Tanasit Wongsachai ทะเบียนเลขที่ ๖-323-๖-9460 , Thanasoun Namakunna ทะเบียนเลขที่ ๖-204-๖-8592

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

N. Banonkit

Narumon Banchonkit
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Chanachon

Dei Chanachon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
:/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location: CUP 4



TESTING

No.0009

Lot ID: 2315927

Date Received : Feb 14, 2023

Date Reported : Feb 21, 2023

Report Number : 2567753-2

Page 1 of 2

Sample Number	2315927-1
Sample Date	Feb 14, 2023 2:10 PM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Feb 14, 2023
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.76	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO ₃ *	mg/L	-	1	56	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	372	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	8.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m ³ /s	-	-	0.000	No Standard	Flow meter	Rayong
Silica as SiO ₂ *	mg/L	0.2	0.5	19.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO ₂ (D)	Rayong
Total Alkalinity as CaCO ₃ *	mg/L	1	1	77	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO ₃ *	mg/L	-	1	123	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	7.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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Sawitree Nitsangiam
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location: CUP 4



TESTING

No.0009

Lot ID: 2315927

Date Received : Feb 14, 2023

Date Reported : Feb 21, 2023

Report Number : 2567753-2

Page 2 of 2

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 : Tanasit Wongsachai , Thanasoun Namakunna

Remark :

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

TESTING
No.0042

Lot ID: 2326508

Date Received : Mar 14, 2023

Date Reported : Mar 21, 2023

Report Number : 2588103-1

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Sample Number 2326508-1
Sampled Date Mar 14, 2023 2:20 PM
Sample Description Wastewater
Location Holding pond 320 m3
Date Analysis Commenced Mar 14, 2023
Condition of Sample Contained in one BOD bottle, two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - b (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	29.6	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	45	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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 : Tanasit Wongsachai ทะเนษิตวงศ์ชาติ ว-323-ก-9460 , Samart Khumplee สมาร์ทขุหมพลี ว-204-ก-7830

Remark :

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Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-ก-9445

Approved by

D. Chanachon

Dei Chanachon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-9442

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Analysis / Test Report

TESTING
No.0009

Lot ID: 2326508

Date Received : Mar 14, 2023

Date Reported : Mar 21, 2023

Report Number : 2588103-2

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 4

Sample Number 2326508-1
Sampled Date Mar 14, 2023 2:20 PM
Sample Description Wastewater
Location Holding pond 320 m3
Date Analysis Commenced Mar 14, 2023
Condition of Sample Contained in one BOD bottle, two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.09	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	89.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	8.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.000	No Standard	Flow meter	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	2.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO2 (D)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	23	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	19	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	2.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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Approved by

S. Nitsangam

Switree Nitsangam
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4



TESTING
No.0009
Lot ID: 2326508
Date Received : Mar 14, 2023
Date Reported : Mar 21, 2023
Report Number : 2588103-2

Page 2 of 2

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 : Tanasit Wongsachai , Samart Khumrphlee

Remark :

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4



TESTING
No.0042
Lot ID: 2330444
Date Received : Apr 11, 2023
Date Reported : Apr 20, 2023
Report Number : 2597732-1

Page 1 of 1

Sample Number : 2330444-1
Sampled Date : Apr 11, 2023 2:45 PM
Sample Description : Wastewater
Location : Holding pond 320 m3
Date Analysis Commenced : Apr 11, 2023
Condition of Sample : Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	34.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	108	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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

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Technical Management

N. Banongkit

Narumon Banchonkit
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Chanachon

Dei Chanachon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0009
Lot ID: 2330444
Date Received : Apr 11, 2023
Date Reported : Apr 20, 2023
Report Number : 2597732-2

Page 1 of 2

Sample Number	2330444-1						
Sample Date	Apr 11, 2023 2:45 PM						
Sample Description	Wastewater						
Location	Holding pond 320 m3						
Date Analysis Commenced	Apr 11, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.57	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO ₃ *	mg/L	-	1	20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	166	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	8.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m ³ /s	-	-	0.000	No Standard	Flow meter	Rayong
Silica as SiO ₂ *	mg/L	0.2	0.5	3.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO ₂ (D)	Rayong
Total Alkalinity as CaCO ₃ *	mg/L	1	1	37	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO ₃ *	mg/L	-	1	43	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	4.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0009
Lot ID: 2330444
Date Received : Apr 11, 2023
Date Reported : Apr 20, 2023
Report Number : 2597732-2

Page 2 of 2

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 : Tanasit Wongsachai , Panuponç Marit

Remark :

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

TESTING
No.0042
Lot ID: 2343540
Date Received : May 09, 2023
Date Reported : May 16, 2023
Report Number : 2627330-1

Page 1 of 1

Sample Number	2343540-1
Sampled Date	May 09, 2023 2:05 PM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	May 09, 2023
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - b (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	35.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	52	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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 : Sansoen Khuiyoksui ทะเบียนเลขที่ ๖-323-๖-0005 , Kardundit Kitisupavanit ทะเบียนเลขที่ ๖-204-๖-0001

Remark :

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Technical Management

N. Banachant

Narumon Banachant
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Chanachon

Dei Chanachon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

TESTING
No.0009
Lot ID: 2343540
Date Received : May 09, 2023
Date Reported : May 16, 2023
Report Number : 2627330-2

Page 1 of 2

Sample Number	2343540-1
Sampled Date	May 09, 2023 2:05 PM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	May 09, 2023
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.81	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	11	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	186	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.006	No Standard	Flow meter	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	3.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO2 (D)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	53	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	44	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0009
Lot ID: 2343540
Date Received : May 09, 2023
Date Reported : May 16, 2023
Report Number : 2627330-2

Page 2 of 2

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 : Sansoen Khuiyoksui , Kardbundit Kitisupavanit

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.
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0042
Lot ID: 2363213
Date Received : Jun 13, 2023
Date Reported : Jun 20, 2023
Report Number : 2668813-1

Page 1 of 1

Sample Number 2363213-1
Sampled Date Jun 13, 2023 3:20 PM
Sample Description Wastewater
Location Holding pond 320 m3
Date Analysis Commenced Jun 13, 2023
Condition of Sample Contained in one amber glass bottle, one BOD bottle and six plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	32	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	172	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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 : Chainusorn Lertranthakunchai ทะเบียนเลขที่ ๖-323-๖-9461 , Panupong Marit ทะเบียนเลขที่ ๖-204-๖-8603

Remark :

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

Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Chanachon

Dei Chanachon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0009
Lot ID: 2363213
Date Received : Jun 13, 2023
Date Reported : Jun 20, 2023
Report Number : 2668813-2

Page 1 of 2

Sample Number	2363213-1						
Sample Date	Jun 13, 2023 3:20 PM						
Sample Description	Wastewater						
Location	Holding pond 320 m3						
Date Analysis Commenced	Jun 13, 2023						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and six plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.86	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO ₃ *	mg/L	-	1	19	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	258	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	5.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m ³ /s	-	-	0.000	No Standard	Flow meter	Rayong
Silica as SiO ₂ *	mg/L	0.2	0.5	3.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO ₂ (D)	Rayong
Total Alkalinity as CaCO ₃ *	mg/L	1	1	39	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO ₃ *	mg/L	-	1	25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0009
Lot ID: 2363213
Date Received : Jun 13, 2023
Date Reported : Jun 20, 2023
Report Number : 2668813-2

Page 2 of 2

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 : Chainusorn Lertranthakunchai , Parupong Manit

Remark :

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location: CUP 4

Lot ID: 233026

Date Received : Jan 10, 2023

Date Reported : Jan 18, 2023

Report Number : 2538664-2

Page 1 of 2

Sample Number	233026-1						
Sampled Date	Jan 10, 2023 2:54 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Jan 11, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.09	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Volatile Organics Compounds							
Bromodichloromethane	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform	ug/L	0.2	0.5	1.1	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethanes	ug/L	0.2	1	1.1	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Water Testing							
Calcium Hardness as CaCO3	mg/L	-	1	150	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C	micromhos/cm	-	0.5	824	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong

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Analysis / Test Report

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P/O :

Project Name : Monitoring

Project Location: CUP 4

Lot ID: 233026

Date Received : Jan 10, 2023

Date Reported : Jan 18, 2023

Report Number : 2538664-2

Page 2 of 2

Sample Number	233026-1						
Sampled Date	Jan 10, 2023 2:54 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Jan 11, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Silica as SiO2	mg/L	0.2	0.5	42.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO2 (D)	Rayong
Total Alkalinity as CaCO3	mg/L	1	1	178	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO3	mg/L	-	1	212	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity	NTU	-	0.1	1.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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 : Tanasit Wongsachai , Thanasorn Namakunna

Remark :

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
:/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location: CUP 4



TESTING

No.0009

Lot ID: 2316689

Date Received : Feb 14, 2023

Date Reported : Feb 22, 2023

Report Number : 2567765-2

Page 1 of 2

Sample Number	2316689-1						
Sampled Date	Feb 14, 2023 1:50 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Feb 15, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.01	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Volatile Organics Compounds							
Bromodichloromethane *	ug/L	0.2	0.5	1.0	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform *	ug/L	0.2	0.5	0.7	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane *	ug/L	0.2	0.5	1.2	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	2.8	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	166	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	912	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong

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Analysis / Test Report

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1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location: CUP 4



TESTING

No.0009

Lot ID: 2316689

Date Received : Feb 14, 2023

Date Reported : Feb 22, 2023

Report Number : 2567765-2

Page 2 of 2

Sample Number	2316689-1						
Sampled Date	Feb 14, 2023 1:50 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Feb 15, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Silica as SiO2 *	mg/L	0.2	0.5	46.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO2 (D)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	199	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	230	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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 : Tanasit Wongsachai , Thanasoun Namakunna

Remark :

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0009
Lot ID: 2326512
Date Received : Mar 14, 2023
Date Reported : Mar 22, 2023
Report Number : 2588107-2

Page 1 of 2

Sample Number	2326512-1						
Sampled Date	Mar 14, 2023 2:00 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Mar 15, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.01	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Volatile Organics Compounds							
Bromodichloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Chloroform *	ug/L	0.2	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Dibromochloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	163	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	1016	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0009
Lot ID: 2326512
Date Received : Mar 14, 2023
Date Reported : Mar 22, 2023
Report Number : 2588107-2

Page 2 of 2

Sample Number	2326512-1						
Sampled Date	Mar 14, 2023 2:00 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Mar 15, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Silica as SiO2 *	mg/L	0.2	0.5	27.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO2 (D)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	205	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	206	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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 : Tanasit Wongasachai , Samart Klumphlee

Remark :

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Savitree Nisangiam
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4



TESTING
No.0009
Lot ID: 2330446
Date Received : Apr 11, 2023
Date Reported : Apr 21, 2023
Report Number : 2597735-2

Page 1 of 2

Sample Number	2330446-1						
Sampled Date	Apr 11, 2023 2:30 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Apr 12, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.02	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Volatile Organics Compounds							
Bromodichloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform *	ug/L	0.2	0.5	1.7	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	1.7	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	177	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	1173	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4



TESTING
No.0009
Lot ID: 2330446
Date Received : Apr 11, 2023
Date Reported : Apr 21, 2023
Report Number : 2597735-2

Page 2 of 2

Sample Number	2330446-1						
Sampled Date	Apr 11, 2023 2:30 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Apr 12, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Silica as SiO2 *	mg/L	0.2	0.5	26.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO2 (D)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	224	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	244	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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 : Tanasit Wongsachai , Panunpong Manit

Remark :

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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4



TESTING
No.0042
Lot ID: 2343541
Date Received : May 09, 2023
Date Reported : May 17, 2023
Report Number : 2627332-2

Page 1 of 2

Sample Number	2343541-1						
Sampled Date	May 09, 2023 1:40 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	May 10, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	<0.005	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Volatile Organics Compounds							
Bromodichloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform *	ug/L	0.2	0.5	1.7	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	1.7	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	168	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500 Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	1049	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong

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Analysis / Test Report

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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4



TESTING
No.0042
Lot ID: 2343541
Date Received : May 09, 2023
Date Reported : May 17, 2023
Report Number : 2627332-2

Page 2 of 2

Sample Number	2343541-1						
Sampled Date	May 09, 2023 1:40 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	May 10, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Silica as SiO2 *	mg/L	0.2	0.5	26.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO2 (D)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	215	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	235	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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 : Sansoen Khuiyoksui , Kairondut Kitisupavanit

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Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0009
Lot ID: 2363214
Date Received : Jun 13, 2023
Date Reported : Jun 22, 2023
Report Number : 2668814-2

Page 1 of 2

Sample Number	2363214-1						
Sampled Date	Jun 13, 2023 3:10 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Jun 14, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.009	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Volatile Organics Compounds							
Bromodichloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Bromoform *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Chloroform *	ug/L	0.2	0.5	2.2	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Dibromochloromethane *	ug/L	0.2	0.5	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	2.2	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030 B and 8260 D	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	181	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	1075	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 4



TESTING
No.0009
Lot ID: 2363214
Date Received : Jun 13, 2023
Date Reported : Jun 22, 2023
Report Number : 2668814-2

Page 2 of 2

Sample Number	2363214-1						
Sampled Date	Jun 13, 2023 3:10 PM						
Sample Description	Wastewater						
Location	Holding pond 1800 m3						
Date Analysis Commenced	Jun 14, 2023						
Condition of Sample	Contained in two glass vials, one amber glass bottle and six plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Silica as SiO2 *	mg/L	0.2	0.5	24.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SiO2 (D)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	174	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	240	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

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 : Chainusorn Lertranthakunchai , Parupong Manit

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2326531
Date Received : Mar 22, 2023
Date Reported : Mar 25, 2023
Report Number: 2588133-1

Page 1 of 2

Sample Number 2326531-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Mar 20, 2023
Measurement by Natthapon Jiengwareewong
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เครื่องกำเนิดไฟฟ้าแบบกังหันก๊าซ (GTG)	120	29.3	27.6	33.4	33.2
Average (WBGT)		29.3			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- 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)
- 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 Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2326531
Date Received : Mar 22, 2023
Date Reported : Mar 25, 2023
Report Number: 2588133-1

Page 2 of 2

Sample Number 2326531-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Mar 20, 2023
Measurement by Natthapon Jiengwareewong
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน่วยผลิตไอน้ำ (HRSG)	120	28.7	27.1	32.6	32.4
Average (WBGT)		28.7			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- 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)
- 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 Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Client : Global Power Synergy Public Company Limited
:/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2326535

Date Received : Mar 21, 2023

Date Reported : Mar 23, 2023

Report Number : 2588144-1

Page 1 of 6

Sample Number 2326535-1
Sampled Date Mar 20, 2023
Sample Description Noise dose
Location FO#1 (Day)
Personal Sampling คุณภพ ไทสุริโย
Date Analysis Commenced Mar 22, 2023

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	%	-	-	33.1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	07:30 AM - 07:30 PM	%	-	1	30.9	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	dB(A)	-	-	78.2	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	07:30 AM - 07:30 PM	dB(A)	-	-	79.9	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

- MOL : 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. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Natthapon Jiengwareewong

Remark :

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2326535

Date Received : Mar 21, 2023

Date Reported : Mar 23, 2023

Report Number : 2588144-1

Page 2 of 6

Sample Number 2326535-2
Sampled Date Mar 20, 2023
Sample Description Noise dose
Location FO#1 (Night)
Personal Sampling คุณภพ ไทสุริโย
Date Analysis Commenced Mar 22, 2023

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 PM - 07:30 AM	%	-	-	67.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	07:30 PM - 07:30 AM	%	-	1	63.1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	07:30 PM - 07:30 AM	dB(A)	-	-	81.3	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	07:30 PM - 07:30 AM	dB(A)	-	-	83.0	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

- MOL : 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. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Natthapon Jiengwareewong

Remark :

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

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Approved by 
Wichan Choonharat
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6403-74/ EMAIL



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
: /2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2326535

Date Received : Mar 21, 2023

Date Reported : Mar 23, 2023

Report Number : 2588144-1

Page 3 of 6

Sample Number 2326535-3
Sampled Date Mar 20, 2023
Sample Description Noise dose
Location FO#2 (Day)
Personal Sampling คุณวราณันท์ ภูมิสถิตย์พงษ์
Date Analysis Commenced Mar 22, 2023

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	%	-	-	2.8	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	07:30 AM - 07:30 PM	%	-	1	2.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	dB(A)	-	-	67.5	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	07:30 AM - 07:30 PM	dB(A)	-	-	69.2	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

- MOL : 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. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Natthapon Jiengwareewong

Remark :

- LOD : Limit of Detection
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6403-74/ EMAIL



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2326535

Date Received : Mar 21, 2023

Date Reported : Mar 23, 2023

Report Number : 2588144-1

Page 4 of 6

Sample Number 2326535-4
Sampled Date Mar 20, 2023
Sample Description Noise dose
Location FO#2 (Night)
Personal Sampling คุณวัชรกร มณีนิล
Date Analysis Commenced Mar 22, 2023

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 PM - 07:30 AM	%	-	-	32.4	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	07:30 PM - 07:30 AM	%	-	1	30.2	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	07:30 PM - 07:30 AM	dB(A)	-	-	78.1	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	07:30 PM - 07:30 AM	dB(A)	-	-	79.8	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

- MOL : 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. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Natthapon Jiengwareewong

Remark :

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
:/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2326535

Date Received : Mar 21, 2023

Date Reported : Mar 23, 2023

Report Number : 2588144-1

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Sample Number 2326535-5
Sampled Date Mar 20, 2023
Sample Description Noise dose
Location CO#1 (Day)
Personal Sampling คุณเจริญศักดิ์ เกตุบุตร
Date Analysis Commenced Mar 22, 2023

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	%	-	-	2.7	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	07:30 AM - 07:30 PM	%	-	1	2.5	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	dB(A)	-	-	67.3	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	07:30 AM - 07:30 PM	dB(A)	-	-	69.0	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

- MOL : 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. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Natthapon Jiengwareewong

Remark :

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

Approved by

Wichan Choonharat

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2326535

Date Received : Mar 21, 2023

Date Reported : Mar 23, 2023

Report Number : 2588144-1

Page 6 of 6

Sample Number 2326535-6
Sampled Date Mar 20, 2023
Sample Description Noise dose
Location CO#1 (Night)
Personal Sampling คุณสิริวุฒิ เกียรติพรพิทักษ์
Date Analysis Commenced Mar 22, 2023

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	07:30 PM - 07:30 AM	%	-	-	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	07:30 PM - 07:30 AM	%	-	1	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavg)	07:30 PM - 07:30 AM	dB(A)	-	-	43.3	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	07:30 PM - 07:30 AM	dB(A)	-	-	45.0	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

- MOL : 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. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Natthapon Jiengwareewong

Remark :

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
:/2 Moo 2, Banchang, Banchang, Rayong 21130

P/O :

Project Name : Monitoring

Project Location : CUP 4

Lot ID: 2326539

Date Received : Mar 21, 2023

Date Reported : Mar 23, 2023

Report Number : 2588159-1

Page 1 of 1

Sample Number 2326539-1
Sampled Date Mar 20, 2023
Sample Description Noise dose
Location Maintenance
Personnel Sampling คุณณิพนธ์ วงศ์
Date Analysis Commenced Mar 22, 2023

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (8 hrs.)	08:30 AM - 04:30 PM	%	-	1	26.3	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	08:30 AM - 04:30 PM	dB(A)	-	-	79.2	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

MOL : 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. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)

Sampled By : Natthapon Jiengwarewong

Remark :

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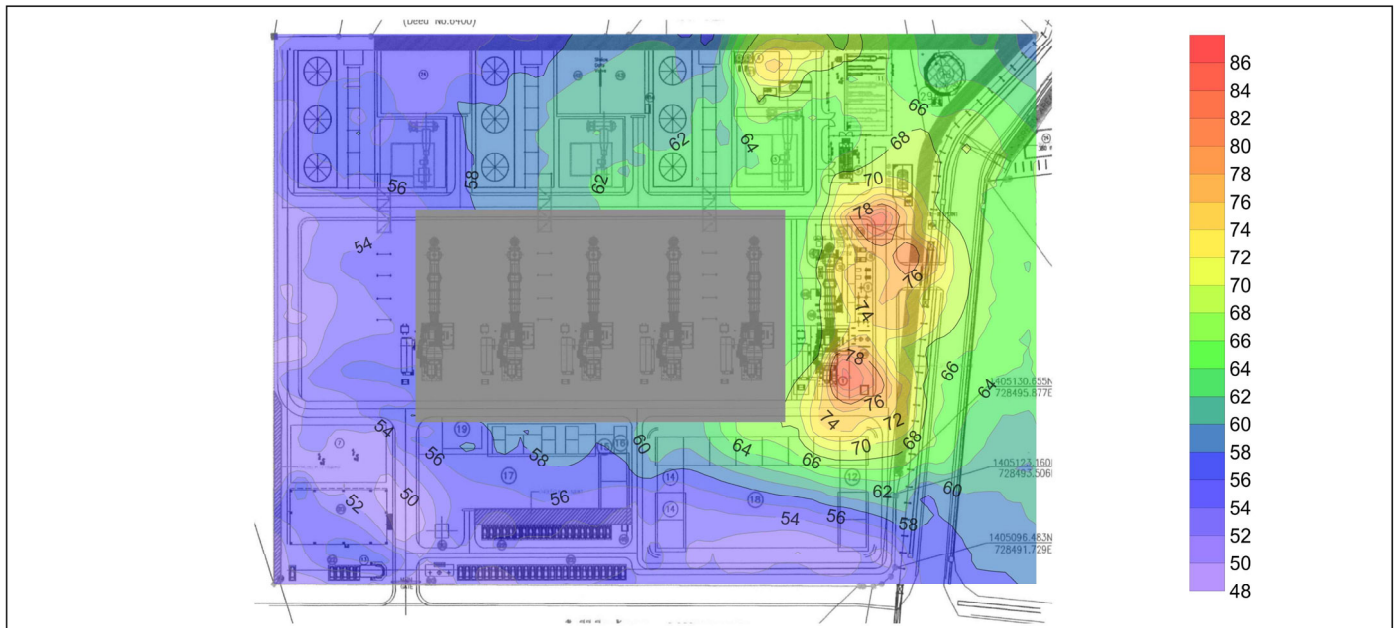
Noise Contour Map

Global Power Synergy Public Company Limited

พื้นที่โครงการ_กระบวนการผลิต

Reference Number : Lot 2326542-1

Measurement Date : Mar 20, 2023



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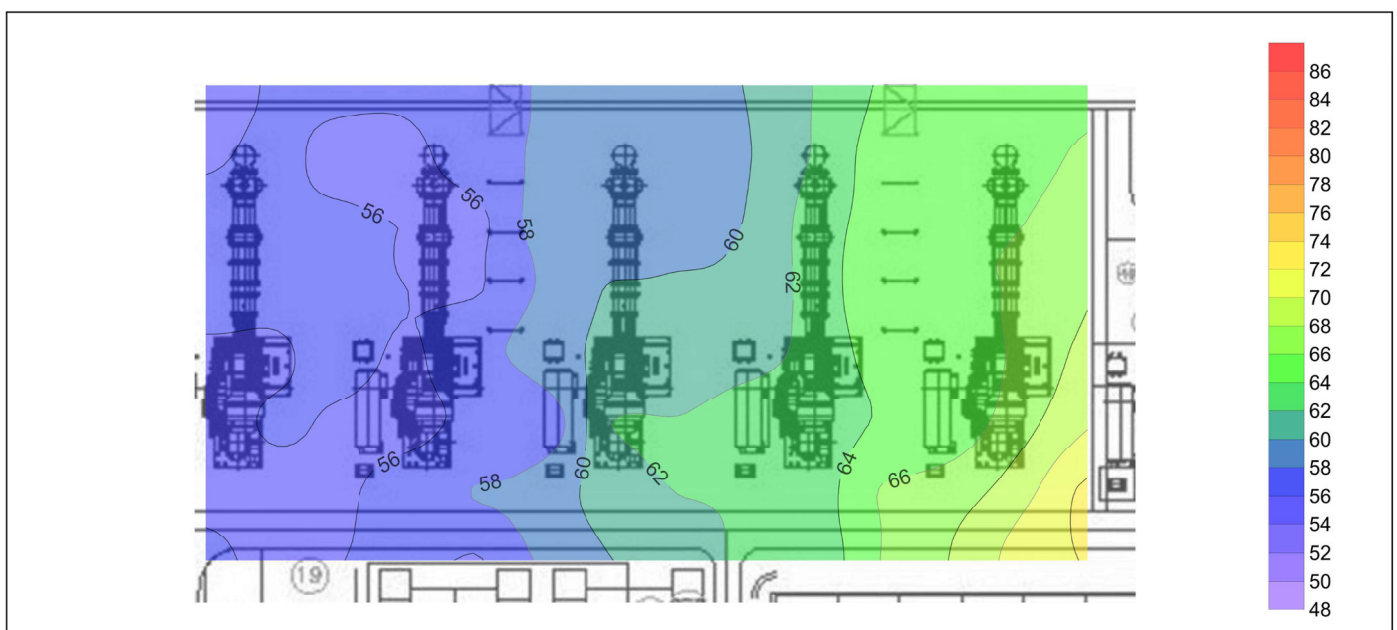
Noise Contour Map

Global Power Synergy Public Company Limited

พื้นที่โครงการ (พื้นที่ว่างเปล่า)

Reference Number : Lot 2326542-2

Measurement Date : Mar 20, 2023



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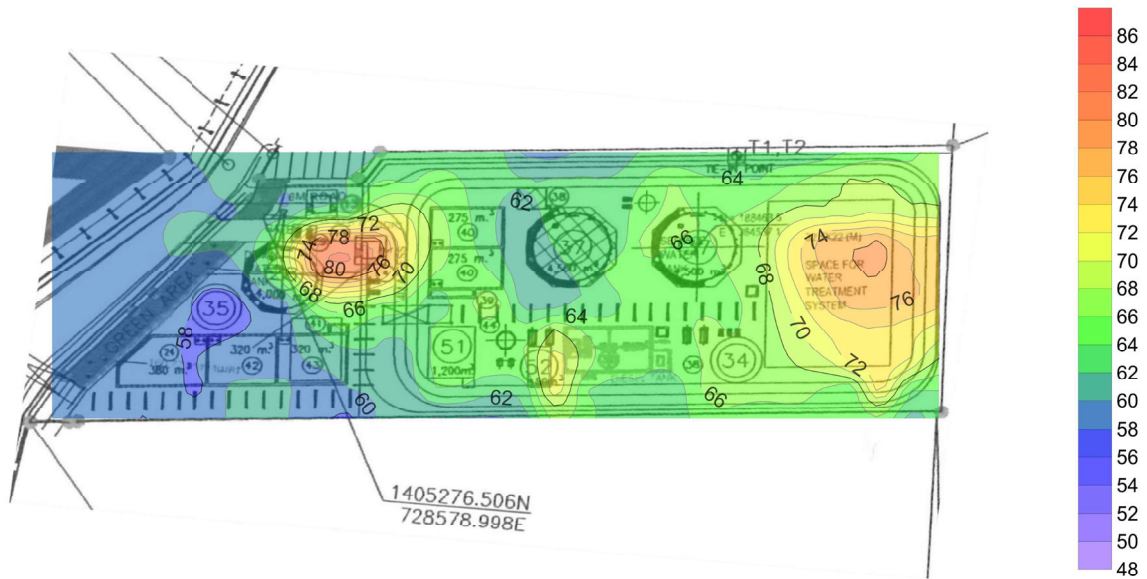
Noise Contour Map

Global Power Synergy Public Company Limited

พื้นที่โครงการ_โรงบำบัดน้ำ

Reference Number : Lot 2326542-3

Measurement Date : Mar 20, 2023



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