ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์ผลกระทบสิ่งแวดล้อม

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: 2511749
Date Received :Mar 11, 2025
Date Reported :Mar 21, 2025
Report Number :3227719-1

Sample Number 2511749-1
Sample Description Emission from Stationary Source
Location HRSGs 1 (GPS 47P 0728137, 1405521)
Measurement Date Mar 11, 2025

Stack Description

Ambient Temperature	32 °C	Diameter	3.30 m	Oxygen	13.95 %
Ambient Pressure	757.8 mmHg	Shape	Circle	Carbon dioxide	3.85 %
Type of Process	Combustion	Stack Temperature	133 °C	Gas Velocity	19.79 m/s
Type of Fuel	Natural Gas	Moisture	9.21 %	Flow Rate	404342 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	11:10 AM - 11:30 AM	13.95	3.85	10.49	20.98	0.15	0.29
2	11:31 AM - 11:51 AM	13.95	3.85	9.55	19.10	0.15	0.30
3	11:52 AM - 12:12 PM	13.95	3.85	9.47	18.94	0.15	0.30
Average (ppm)		13.95	3.85	9.84	19.67	0.15	0.30
Guideline[1](ppm)				-	26.58	-	1.66
Guideline[2](ppm)				-	120	-	20
Guideline[3](ppm)				-	120	-	20
Result (mg/Nm^3)				18.51	37.01	0.39	0.77
Emission Rate at Actual O_2 (g/s)				2.0788		0.0434	
Guideline[1](g/s)				3.000		0.255	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Saksit Phaisanphisut
Guideline : [1]Environmental Impact Assessment Report of Global Power Synergy Public Company Limited (CUP 4)
[2]Notification of the Ministry of Industry on determining pollution contents in air emissions from power plants, 2024 (B.E. 2567)
[3]Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management Wichan Choonharat, Manager, ทะเบียนเลขที่ ว-204-ค-0006
Approved by Sarayuth Jittranont, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0003

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

Analysis / Test Report

Client : 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: 2511749
Date Received :Mar 11, 2025
Date Reported :Mar 21, 2025
Report Number :3227719-1

Page 1 of 1

Sample Number 2511749-1
Sample Description Emission from Stationary Source
Location HRSGs 1 (GPS 47P 0728137, 1405521)
Measurement Date Mar 11, 2025

Stack Description

Ambient Temperature	32 °C	Diameter	3.30 m	Oxygen	13.95 %
Ambient Pressure	757.8 mmHg	Shape	Circle	Carbon dioxide	3.85 %
Type of Process	Combustion	Stack Temperature	133 °C	Gas Velocity	19.79 m/s
Type of Fuel	Natural Gas	Moisture	9.21 %	Flow Rate	404342 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O_2	At 7% O_2
1	11:10 AM - 11:30 AM	13.95	3.85	1.51	3.01
2	11:31 AM - 11:51 AM	13.95	3.85	1.46	2.91
3	11:52 AM - 12:12 PM	13.95	3.85	1.49	2.98
Average (ppm)		13.95	3.85	1.48	2.97
Guideline (ppm)				-	690
Result (mg/Nm^3)				1.70	3.40
Emission Rate at Actual O_2 (g/s)				0.1910	
Method				US EPA Method 10	

Sampled By : Saksit Phaisanphisut
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management Wichan Choonharat, Manager, ทะเบียนเลขที่ ว-204-ค-0006
Approved by Sarayuth Jittranont, Assistant General Manager, ทะเบียนเลขที่ ว-204-ค-0003

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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 :
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2511750
Date Received : Mar 11, 2025
Date Reported : Mar 18, 2025
Report Number: 3227716-1

Sample Number 2511750-1
Sampled Date Mar 11, 2025
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 11, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	758 mmHg	Diameter	3.30 m	Oxygen	14.0 %
Ambient Temperature	32.0 °C	Shape	Circle	Carbon Dioxide	3.8 %
Type of Process	Combustion	Stack Temperature	133 °C	Gas Velocity	19.8 m/s
Type of Fuel	Natural Gas	Moisture	9.06 %	Flow Rate (Actual O2)	405590 Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O_2	Result at 14.0 % O_2	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	11:05 AM - 12:00 PM	mg/m3	-	0.5	<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 pollution contents in air emissions from power plants, 2024 (B.E. 2567)
: Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.
Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Technical Management Thanita Kulsuriwong, Scientist (4), ทะเบียนเลขที่ ว-323-จ-0029
Approved by Dej Changchon, Senior Manager, ทะเบียนเลขที่ ว-323-ค-0001

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

Analysis / Test Report

TESTING
No.0042

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: 2511750
Date Received : Mar 11, 2025
Date Reported : Mar 18, 2025
Report Number: 3227716-1

Sample Number 2511750-1
Sampled Date Mar 11, 2025
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 11, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	758 mmHg	Diameter	3.30 m	Oxygen	14.0 %
Ambient Temperature	32.0 °C	Shape	Circle	Carbon Dioxide	3.8 %
Type of Process	Combustion	Stack Temperature	133 °C	Gas Velocity	19.8 m/s
Type of Fuel	Natural Gas	Moisture	9.06 %	Flow Rate (Actual O2)	405590 Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	11:05 AM - 12:00 PM	g/s	-	-	<0.056	-	0.416	Calculated	Rayong

Guideline :
Guideline (1) : Notification of the Ministry of Industry on determining pollution contents in air emissions from power plants, 2024 (B.E. 2567)
: Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.
Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 4)

Sampling By : Panuwat Wangbong ทะเบียนเลขที่ ว-323-จ-0060

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

Technical Management Thanita Kulsuriwong, Scientist (4), ทะเบียนเลขที่ ว-323-จ-0029
Approved by Dej Changchon, Senior Manager, ทะเบียนเลขที่ ว-323-ค-0001

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6403-74/ EMAIL S:\Reports_Air Stack_O2_2GL.rpt (10:44AM)

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: 2511722
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3227707-1

Sample Description Air Quality
Location วัดประชุมเมืองบ่าหุง
(GPS 47P 0726443, 1407365)
Parameter Nitrogen dioxide (ppm)
Measurement Date Mar 09, 2025 - Mar 16, 2025
Measurement by Saknarin Jaraskay

Time	2511722-1 Mar 09, 2025	2511722-2 Mar 10, 2025	2511722-3 Mar 11, 2025	2511722-4 Mar 12, 2025	2511722-5 Mar 13, 2025	2511722-6 Mar 14, 2025	2511722-7 Mar 15, 2025
11:00 AM - 12:00 PM	0.0052	0.0036	0.0040	0.0048	0.0041	0.0041	0.0043
12:00 PM - 01:00 PM	0.0056	0.0018	0.0036	0.0042	0.0019	0.0043	0.0028
01:00 PM - 02:00 PM	0.0057	0.0058	0.0024	0.0021	0.0046	0.0086	0.0056
02:00 PM - 03:00 PM	0.0054	0.0061	0.0015	0.0011	0.0046	0.0024	0.0090
03:00 PM - 04:00 PM	0.0049	0.0047	0.0013	0.0050	0.0046	0.0019	0.0105
04:00 PM - 05:00 PM	0.0045	0.0053	0.0016	0.0076	0.0026	0.0027	0.0112
05:00 PM - 06:00 PM	0.0043	0.0035	0.0021	0.0078	0.0036	0.0012	0.0117
06:00 PM - 07:00 PM	0.0033	0.0083	0.0034	0.0060	0.0036	0.0019	0.0044
07:00 PM - 08:00 PM	0.0041	0.0107	0.0040	0.0056	0.0015	0.0026	0.0045
08:00 PM - 09:00 PM	0.0051	0.0133	0.0056	0.0050	0.0009	0.0041	0.0083
09:00 PM - 10:00 PM	0.0054	0.0126	0.0062	0.0088	0.0076	0.0009	0.0087
10:00 PM - 11:00 PM	0.0053	0.0131	0.0060	0.0073	0.0016	0.0013	0.0077
11:00 PM - 12:00 AM	0.0053	0.0114	0.0055	0.0090	0.0048	0.0016	0.0071
12:00 AM - 01:00 AM	0.0050	0.0122	0.0053	0.0108	0.0012	0.0017	0.0073
01:00 AM - 02:00 AM	0.0054	0.0126	0.0059	0.0103	0.0040	0.0014	0.0046
02:00 AM - 03:00 AM	0.0051	0.0128	0.0061	0.0051	0.0011	0.0039	0.0067
03:00 AM - 04:00 AM	0.0053	0.0058	0.0052	0.0056	0.0020	0.0060	0.0123
04:00 AM - 05:00 AM	0.0050	0.0058	0.0061	0.0110	0.0059	0.0052	0.0026
05:00 AM - 06:00 AM	0.0050	0.0050	0.0057	0.0148	0.0011	0.0057	0.0036
06:00 AM - 07:00 AM	0.0045	0.0048	0.0050	0.0144	0.0023	0.0056	0.0046
07:00 AM - 08:00 AM	0.0066	0.0040	0.0056	0.0115	0.0042	0.0043	0.0034
08:00 AM - 09:00 AM	0.0055	0.0055	0.0059	0.0127	0.0033	0.0047	0.0078
09:00 AM - 10:00 AM	0.0163	0.0041	0.0057	0.0052	0.0030	0.0039	0.0019
10:00 AM - 11:00 AM	0.0040	0.0037	0.0053	0.0051	0.0036	0.0044	0.0057
Average	0.0055	0.0074	0.0045	0.0075	0.0032	0.0035	0.0065
1hr - Maximum	0.0163	0.0133	0.0062	0.0148	0.0076	0.0086	0.0123
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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Approved by
Orawan Rakyong
Scientist (3)

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

Client : 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: 2511722
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3262715-1

Sample Description Air Quality
Location บ้านสำนักแม่ง่าง
(GPS 47P 0728262, 1403382)
Parameter Nitrogen dioxide (ppm)
Measurement Date Mar 09, 2025 - Mar 16, 2025
Measurement by Saknarin Jaraskay

Time	2511722-8 Mar 09, 2025	2511722-9 Mar 10, 2025	2511722-10 Mar 11, 2025	2511722-11 Mar 12, 2025	2511722-12 Mar 13, 2025	2511722-13 Mar 14, 2025	2511722-14 Mar 15, 2025
10:00 AM - 11:00 AM	0.0089	0.0009	0.0013	0.0150	0.0010	0.0020	0.0020
11:00 AM - 12:00 PM	0.0013	0.0010	0.0064	0.0014	0.0015	0.0019	0.0014
12:00 PM - 01:00 PM	0.0015	0.0012	0.0066	0.0013	0.0025	0.0028	0.0018
01:00 PM - 02:00 PM	0.0019	0.0018	0.0019	0.0016	0.0034	0.0017	0.0016
02:00 PM - 03:00 PM	0.0026	0.0023	0.0024	0.0014	0.0025	0.0012	0.0020
03:00 PM - 04:00 PM	0.0018	0.0040	0.0035	0.0015	0.0027	0.0011	0.0014
04:00 PM - 05:00 PM	0.0018	0.0048	0.0024	0.0016	0.0017	0.0009	0.0011
05:00 PM - 06:00 PM	0.0019	0.0026	0.0024	0.0014	0.0013	0.0009	0.0014
06:00 PM - 07:00 PM	0.0019	0.0020	0.0019	0.0016	0.0013	0.0009	0.0015
07:00 PM - 08:00 PM	0.0019	0.0019	0.0022	0.0022	0.0012	0.0007	0.0017
08:00 PM - 09:00 PM	0.0032	0.0018	0.0021	0.0040	0.0011	0.0008	0.0012
09:00 PM - 10:00 PM	0.0036	0.0013	0.0023	0.0033	0.0011	0.0008	0.0011
10:00 PM - 11:00 PM	0.0017	0.0011	0.0017	0.0052	0.0014	0.0009	0.0012
11:00 PM - 12:00 AM	0.0014	0.0011	0.0014	0.0024	0.0012	0.0009	0.0012
12:00 AM - 01:00 AM	0.0013	0.0010	0.0015	0.0017	0.0010	0.0013	0.0011
01:00 AM - 02:00 AM	0.0016	0.0013	0.0014	0.0014	0.0010	0.0023	0.0015
02:00 AM - 03:00 AM	0.0021	0.0016	0.0018	0.0021	0.0010	0.0018	0.0010
03:00 AM - 04:00 AM	0.0020	0.0015	0.0015	0.0016	0.0009	0.0016	0.0010
04:00 AM - 05:00 AM	0.0012	0.0011	0.0011	0.0013	0.0008	0.0016	0.0010
05:00 AM - 06:00 AM	0.0012	0.0010	0.0012	0.0012	0.0008	0.0016	0.0010
06:00 AM - 07:00 AM	0.0010	0.0008	0.0010	0.0011	0.0010	0.0017	0.0009
07:00 AM - 08:00 AM	0.0008	0.0009	0.0010	0.0010	0.0012	0.0018	0.0010
08:00 AM - 09:00 AM	0.0008	0.0010	0.0009	0.0009	0.0024	0.0013	0.0010
09:00 AM - 10:00 AM	0.0008	0.0014	0.0010	0.0009	0.0020	0.0015	0.0009
Average	0.0020	0.0016	0.0021	0.0024	0.0015	0.0014	0.0013
1hr - Maximum	0.0089	0.0048	0.0066	0.0150	0.0034	0.0028	0.0020
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)

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

Approved by
Orawan Rakyong
Scientist (3)

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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: 2511722
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3262716-1

Sample Description Air Quality
Location วัดขากลุกหญ้า
(GPS 47P 0730962, 1409672)
Parameter Nitrogen dioxide (ppm)
Measurement Date Mar 09, 2025 - Mar 16, 2025
Measurement by Saknarin Jaraskay

Time	2511722-15 Mar 09, 2025	2511722-16 Mar 10, 2025	2511722-17 Mar 11, 2025	2511722-18 Mar 12, 2025	2511722-19 Mar 13, 2025	2511722-20 Mar 14, 2025	2511722-21 Mar 15, 2025
12:00 PM - 01:00 PM	0.0019	0.0018	0.0045	0.0017	0.0018	0.0022	0.0032
01:00 PM - 02:00 PM	0.0030	0.0019	0.0024	0.0021	0.0019	0.0015	0.0023
02:00 PM - 03:00 PM	0.0018	0.0017	0.0017	0.0025	0.0026	0.0008	0.0015
03:00 PM - 04:00 PM	0.0010	0.0018	0.0011	0.0015	0.0017	0.0009	0.0011
04:00 PM - 05:00 PM	0.0012	0.0036	0.0027	0.0019	0.0015	0.0011	0.0018
05:00 PM - 06:00 PM	0.0040	0.0044	0.0041	0.0045	0.0028	0.0026	0.0027
06:00 PM - 07:00 PM	0.0067	0.0064	0.0055	0.0101	0.0062	0.0034	0.0055
07:00 PM - 08:00 PM	0.0101	0.0073	0.0070	0.0167	0.0093	0.0031	0.0102
08:00 PM - 09:00 PM	0.0120	0.0067	0.0107	0.0202	0.0094	0.0029	0.0138
09:00 PM - 10:00 PM	0.0108	0.0053	0.0131	0.0140	0.0107	0.0035	0.0114
10:00 PM - 11:00 PM	0.0089	0.0062	0.0140	0.0153	0.0055	0.0039	0.0080
11:00 PM - 12:00 AM	0.0094	0.0053	0.0098	0.0143	0.0039	0.0037	0.0079
12:00 AM - 01:00 AM	0.0083	0.0042	0.0122	0.0126	0.0069	0.0030	0.0063
01:00 AM - 02:00 AM	0.0035	0.0075	0.0137	0.0094	0.0063	0.0045	0.0069
02:00 AM - 03:00 AM	0.0039	0.0109	0.0116	0.0089	0.0032	0.0040	0.0055
03:00 AM - 04:00 AM	0.0032	0.0088	0.0065	0.0081	0.0024	0.0040	0.0034
04:00 AM - 05:00 AM	0.0022	0.0081	0.0068	0.0068	0.0040	0.0034	0.0030
05:00 AM - 06:00 AM	0.0042	0.0088	0.0072	0.0058	0.0052	0.0033	0.0035
06:00 AM - 07:00 AM	0.0044	0.0059	0.0075	0.0057	0.0055	0.0030	0.0041
07:00 AM - 08:00 AM	0.0047	0.0037	0.0053	0.0050	0.0046	0.0030	0.0033
08:00 AM - 09:00 AM	0.0041	0.0037	0.0044	0.0044	0.0038	0.0037	0.0031
09:00 AM - 10:00 AM	0.0046	0.0047	0.0052	0.0051	0.0035	0.0044	0.0032
10:00 AM - 11:00 AM	0.0039	0.0043	0.0051	0.0046	0.0031	0.0045	0.0112
11:00 AM - 12:00 PM	0.0034	0.0035	0.0032	0.0021	0.0032	0.0045	0.0141
Average	0.0050	0.0053	0.0069	0.0076	0.0045	0.0031	0.0057
1hr - Maximum	0.0120	0.0109	0.0140	0.0202	0.0107	0.0045	0.0141
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)

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

Approved by
Orawan Rakyong
Scientist (3)

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

Client : 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: 2511722
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3262719-1

Sample Description Air Quality
Location วัดมาบชุด
(GPS 47P 0730822, 1407376)
Parameter Nitrogen dioxide (ppm)
Measurement Date Mar 09, 2025 - Mar 16, 2025
Measurement by Saknarin Jaraskay

Time	2511722-22 Mar 09, 2025	2511722-23 Mar 10, 2025	2511722-24 Mar 11, 2025	2511722-25 Mar 12, 2025	2511722-26 Mar 13, 2025	2511722-27 Mar 14, 2025	2511722-28 Mar 15, 2025
01:00 PM - 02:00 PM	0.0079	0.0135	0.0044	0.0087	0.0039	0.0087	0.0040
02:00 PM - 03:00 PM	0.0055	0.0070	0.0041	0.0041	0.0043	0.0080	0.0042
03:00 PM - 04:00 PM	0.0075	0.0100	0.0051	0.0042	0.0046	0.0061	0.0047
04:00 PM - 05:00 PM	0.0085	0.0046	0.0086	0.0072	0.0041	0.0062	0.0071
05:00 PM - 06:00 PM	0.0035	0.0027	0.0063	0.0062	0.0039	0.0037	0.0156
06:00 PM - 07:00 PM	0.0039	0.0030	0.0031	0.0026	0.0032	0.0026	0.0079
07:00 PM - 08:00 PM	0.0051	0.0045	0.0038	0.0100	0.0025	0.0055	0.0076
08:00 PM - 09:00 PM	0.0048	0.0046	0.0040	0.0037	0.0020	0.0055	0.0066
09:00 PM - 10:00 PM	0.0054	0.0043	0.0037	0.0034	0.0020	0.0046	0.0085
10:00 PM - 11:00 PM	0.0099	0.0055	0.0035	0.0039	0.0021	0.0045	0.0145
11:00 PM - 12:00 AM	0.0066	0.0050	0.0039	0.0040	0.0058	0.0042	0.0102
12:00 AM - 01:00 AM	0.0076	0.0048	0.0038	0.0044	0.0052	0.0066	0.0086
01:00 AM - 02:00 AM	0.0054	0.0058	0.0046	0.0048	0.0028	0.0045	0.0078
02:00 AM - 03:00 AM	0.0064	0.0055	0.0049	0.0044	0.0022	0.0073	0.0077
03:00 AM - 04:00 AM	0.0067	0.0045	0.0037	0.0036	0.0036	0.0036	0.0076
04:00 AM - 05:00 AM	0.0052	0.0038	0.0036	0.0037	0.0039	0.0030	0.0077
05:00 AM - 06:00 AM	0.0048	0.0059	0.0037	0.0028	0.0051	0.0049	0.0074
06:00 AM - 07:00 AM	0.0105	0.0097	0.0073	0.0052	0.0066	0.0074	0.0174
07:00 AM - 08:00 AM	0.0130	0.0102	0.0090	0.0065	0.0094	0.0083	0.0157
08:00 AM - 09:00 AM	0.0101	0.0138	0.0081	0.0054	0.0053	0.0065	0.0082
09:00 AM - 10:00 AM	0.0081	0.0084	0.0068	0.0049	0.0021	0.0039	0.0066
10:00 AM - 11:00 AM	0.0046	0.0065	0.0044	0.0046	0.0028	0.0059	0.0088
11:00 AM - 12:00 PM	0.0044	0.0046	0.0031	0.0037	0.0035	0.0044	0.0075
12:00 PM - 01:00 PM	0.0092	0.0060	0.0065	0.0045	0.0058	0.0038	0.0066
Average	0.0069	0.0064	0.0050	0.0049	0.0040	0.0054	0.0087
1hr - Maximum	0.0130	0.0138	0.0090	0.0100	0.0094	0.0087	0.0174
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)

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

Approved by
Orawan Rakyong
Scientist (3)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

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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: 2511729
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3227694-1

Sample Description Air Quality
Location วัดประชุมเมืองบำรุง
(GPS 47P 0726443, 1407365)
Parameter Sulfur Dioxide (ppm)
Measurement Date Mar 09, 2025 - Mar 16, 2025
Measurement by Saknarin Jaraskay

Time	2511729-1 Mar 09, 2025	2511729-2 Mar 10, 2025	2511729-3 Mar 11, 2025	2511729-4 Mar 12, 2025	2511729-5 Mar 13, 2025	2511729-6 Mar 14, 2025	2511729-7 Mar 15, 2025
11:00 AM - 12:00 PM	0.0029	0.0030	0.0024	0.0029	0.0030	0.0025	0.0026
12:00 PM - 01:00 PM	0.0021	0.0030	0.0037	0.0030	0.0030	0.0026	0.0026
01:00 PM - 02:00 PM	0.0031	0.0033	0.0025	0.0029	0.0031	0.0025	0.0026
02:00 PM - 03:00 PM	0.0031	0.0032	0.0029	0.0030	0.0030	0.0025	0.0026
03:00 PM - 04:00 PM	0.0031	0.0031	0.0029	0.0029	0.0030	0.0026	0.0026
04:00 PM - 05:00 PM	0.0030	0.0031	0.0029	0.0029	0.0030	0.0028	0.0026
05:00 PM - 06:00 PM	0.0029	0.0030	0.0030	0.0029	0.0031	0.0029	0.0026
06:00 PM - 07:00 PM	0.0028	0.0031	0.0030	0.0028	0.0030	0.0029	0.0027
07:00 PM - 08:00 PM	0.0029	0.0025	0.0030	0.0029	0.0030	0.0029	0.0026
08:00 PM - 09:00 PM	0.0031	0.0026	0.0030	0.0031	0.0031	0.0030	0.0030
09:00 PM - 10:00 PM	0.0030	0.0026	0.0030	0.0030	0.0031	0.0030	0.0030
10:00 PM - 11:00 PM	0.0031	0.0026	0.0030	0.0030	0.0026	0.0029	0.0030
11:00 PM - 12:00 AM	0.0031	0.0026	0.0030	0.0031	0.0026	0.0030	0.0031
12:00 AM - 01:00 AM	0.0031	0.0026	0.0029	0.0031	0.0027	0.0030	0.0026
01:00 AM - 02:00 AM	0.0026	0.0024	0.0030	0.0027	0.0026	0.0030	0.0026
02:00 AM - 03:00 AM	0.0027	0.0025	0.0030	0.0027	0.0027	0.0030	0.0026
03:00 AM - 04:00 AM	0.0026	0.0025	0.0029	0.0026	0.0026	0.0029	0.0026
04:00 AM - 05:00 AM	0.0026	0.0025	0.0029	0.0026	0.0027	0.0029	0.0027
05:00 AM - 06:00 AM	0.0026	0.0026	0.0030	0.0027	0.0027	0.0027	0.0027
06:00 AM - 07:00 AM	0.0026	0.0025	0.0029	0.0027	0.0026	0.0026	0.0030
07:00 AM - 08:00 AM	0.0030	0.0025	0.0029	0.0027	0.0027	0.0026	0.0031
08:00 AM - 09:00 AM	0.0030	0.0026	0.0029	0.0027	0.0027	0.0027	0.0031
09:00 AM - 10:00 AM	0.0030	0.0026	0.0029	0.0031	0.0026	0.0027	0.0030
10:00 AM - 11:00 AM	0.0030	0.0025	0.0029	0.0030	0.0025	0.0027	0.0029
Average	0.0029	0.0027	0.0029	0.0029	0.0028	0.0028	0.0028
1hr - Maximum	0.0031	0.0033	0.0037	0.0031	0.0031	0.0030	0.0031
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
Orawan Rakyong
Scientist (3)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

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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: 2511729
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3262720-1

Sample Description Air Quality
Location บ้านสำนักแม่ง
(GPS 47P 0728262, 1403382)
Parameter Sulfur Dioxide (ppm)
Measurement Date Mar 09, 2025 - Mar 16, 2025
Measurement by Saknarin Jaraskay

Time	2511729-8 Mar 09, 2025	2511729-9 Mar 10, 2025	2511729-10 Mar 11, 2025	2511729-11 Mar 12, 2025	2511729-12 Mar 13, 2025	2511729-13 Mar 14, 2025	2511729-14 Mar 15, 2025
10:00 AM - 11:00 AM	0.0024	0.0023	0.0020	0.0023	0.0026	0.0019	0.0019
11:00 AM - 12:00 PM	0.0023	0.0014	0.0020	0.0023	0.0033	0.0020	0.0018
12:00 PM - 01:00 PM	0.0023	0.0026	0.0020	0.0023	0.0032	0.0019	0.0018
01:00 PM - 02:00 PM	0.0023	0.0025	0.0027	0.0030	0.0034	0.0019	0.0018
02:00 PM - 03:00 PM	0.0023	0.0025	0.0025	0.0033	0.0032	0.0019	0.0019
03:00 PM - 04:00 PM	0.0024	0.0025	0.0025	0.0027	0.0028	0.0022	0.0019
04:00 PM - 05:00 PM	0.0022	0.0025	0.0025	0.0024	0.0025	0.0022	0.0019
05:00 PM - 06:00 PM	0.0022	0.0025	0.0024	0.0023	0.0024	0.0021	0.0019
06:00 PM - 07:00 PM	0.0023	0.0020	0.0024	0.0022	0.0024	0.0022	0.0019
07:00 PM - 08:00 PM	0.0024	0.0021	0.0024	0.0023	0.0023	0.0022	0.0022
08:00 PM - 09:00 PM	0.0024	0.0020	0.0023	0.0023	0.0023	0.0022	0.0023
09:00 PM - 10:00 PM	0.0024	0.0020	0.0024	0.0023	0.0019	0.0022	0.0022
10:00 PM - 11:00 PM	0.0024	0.0021	0.0024	0.0023	0.0019	0.0022	0.0022
11:00 PM - 12:00 AM	0.0025	0.0021	0.0023	0.0023	0.0020	0.0022	0.0018
12:00 AM - 01:00 AM	0.0019	0.0020	0.0023	0.0019	0.0019	0.0022	0.0018
01:00 AM - 02:00 AM	0.0020	0.0019	0.0023	0.0019	0.0019	0.0022	0.0018
02:00 AM - 03:00 AM	0.0019	0.0020	0.0023	0.0019	0.0019	0.0022	0.0018
03:00 AM - 04:00 AM	0.0019	0.0020	0.0023	0.0019	0.0018	0.0022	0.0018
04:00 AM - 05:00 AM	0.0020	0.0019	0.0023	0.0019	0.0019	0.0019	0.0018
05:00 AM - 06:00 AM	0.0019	0.0019	0.0022	0.0019	0.0019	0.0019	0.0023
06:00 AM - 07:00 AM	0.0023	0.0019	0.0023	0.0019	0.0019	0.0019	0.0022
07:00 AM - 08:00 AM	0.0023	0.0020	0.0023	0.0019	0.0019	0.0019	0.0022
08:00 AM - 09:00 AM	0.0023	0.0019	0.0023	0.0023	0.0019	0.0019	0.0021
09:00 AM - 10:00 AM	0.0023	0.0019	0.0023	0.0023	0.0019	0.0019	0.0022
Average	0.0022	0.0021	0.0023	0.0023	0.0023	0.0021	0.0020
1hr - Maximum	0.0025	0.0026	0.0027	0.0033	0.0034	0.0022	0.0023
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
Orawan Rakyong
Scientist (3)

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

Client : 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: 2511729
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3262723-1

Sample Description Air Quality
Location วัดขากลุกหญ้า
(GPS 47P 0730062, 1409672)
Parameter Sulfur Dioxide (ppm)
Measurement Date Mar 09, 2025 - Mar 16, 2025
Measurement by Saknarin Jaraskay

Time	2511729-15 Mar 09, 2025	2511729-16 Mar 10, 2025	2511729-17 Mar 11, 2025	2511729-18 Mar 12, 2025	2511729-19 Mar 13, 2025	2511729-20 Mar 14, 2025	2511729-21 Mar 15, 2025
12:00 PM - 01:00 PM	0.0011	0.0023	0.0026	0.0030	0.0028	0.0027	0.0030
01:00 PM - 02:00 PM	0.0026	0.0026	0.0025	0.0030	0.0027	0.0026	0.0030
02:00 PM - 03:00 PM	0.0029	0.0021	0.0026	0.0027	0.0026	0.0027	0.0032
03:00 PM - 04:00 PM	0.0026	0.0020	0.0027	0.0028	0.0023	0.0032	0.0030
04:00 PM - 05:00 PM	0.0025	0.0019	0.0024	0.0030	0.0023	0.0027	0.0030
05:00 PM - 06:00 PM	0.0025	0.0021	0.0025	0.0027	0.0028	0.0024	0.0033
06:00 PM - 07:00 PM	0.0027	0.0021	0.0025	0.0028	0.0023	0.0030	0.0030
07:00 PM - 08:00 PM	0.0028	0.0018	0.0024	0.0031	0.0023	0.0024	0.0030
08:00 PM - 09:00 PM	0.0027	0.0026	0.0027	0.0028	0.0023	0.0024	0.0033
09:00 PM - 10:00 PM	0.0025	0.0025	0.0025	0.0028	0.0029	0.0029	0.0028
10:00 PM - 11:00 PM	0.0027	0.0022	0.0025	0.0028	0.0023	0.0024	0.0026
11:00 PM - 12:00 AM	0.0024	0.0026	0.0028	0.0027	0.0026	0.0026	0.0027
12:00 AM - 01:00 AM	0.0028	0.0029	0.0025	0.0027	0.0027	0.0022	0.0028
01:00 AM - 02:00 AM	0.0025	0.0020	0.0026	0.0026	0.0027	0.0029	0.0031
02:00 AM - 03:00 AM	0.0031	0.0029	0.0030	0.0031	0.0031	0.0024	0.0030
03:00 AM - 04:00 AM	0.0031	0.0025	0.0026	0.0031	0.0027	0.0024	0.0031
04:00 AM - 05:00 AM	0.0032	0.0025	0.0027	0.0033	0.0027	0.0022	0.0032
05:00 AM - 06:00 AM	0.0031	0.0027	0.0031	0.0031	0.0032	0.0024	0.0031
06:00 AM - 07:00 AM	0.0031	0.0026	0.0026	0.0031	0.0026	0.0027	0.0027
07:00 AM - 08:00 AM	0.0029	0.0028	0.0028	0.0034	0.0027	0.0027	0.0027
08:00 AM - 09:00 AM	0.0026	0.0026	0.0026	0.0031	0.0032	0.0030	0.0029
09:00 AM - 10:00 AM	0.0027	0.0026	0.0026	0.0031	0.0027	0.0031	0.0023
10:00 AM - 11:00 AM	0.0025	0.0023	0.0029	0.0028	0.0027	0.0030	0.0028
11:00 AM - 12:00 PM	0.0026	0.0027	0.0028	0.0029	0.0024	0.0030	0.0023
Average	0.0027	0.0024	0.0026	0.0029	0.0026	0.0027	0.0029
1hr - Maximum	0.0032	0.0029	0.0031	0.0034	0.0032	0.0032	0.0033
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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Scientist (3)

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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: 2511729
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3262725-1

Sample Description Air Quality
Location วัดมาบชุด
(GPS 47P 0730822, 1407376)
Parameter Sulfur Dioxide (ppm)
Measurement Date Mar 09, 2025 - Mar 16, 2025
Measurement by Saknarin Jaraskay

Time	2511729-22 Mar 09, 2025	2511729-23 Mar 10, 2025	2511729-24 Mar 11, 2025	2511729-25 Mar 12, 2025	2511729-26 Mar 13, 2025	2511729-27 Mar 14, 2025	2511729-28 Mar 15, 2025
01:00 PM - 02:00 PM	0.0008	0.0021	0.0019	0.0027	0.0026	0.0021	0.0024
02:00 PM - 03:00 PM	0.0023	0.0025	0.0018	0.0027	0.0025	0.0020	0.0024
03:00 PM - 04:00 PM	0.0026	0.0020	0.0019	0.0024	0.0024	0.0021	0.0026
04:00 PM - 05:00 PM	0.0024	0.0019	0.0025	0.0025	0.0021	0.0026	0.0024
05:00 PM - 06:00 PM	0.0023	0.0018	0.0022	0.0027	0.0021	0.0021	0.0024
06:00 PM - 07:00 PM	0.0023	0.0020	0.0023	0.0024	0.0026	0.0021	0.0027
07:00 PM - 08:00 PM	0.0024	0.0020	0.0023	0.0025	0.0021	0.0027	0.0024
08:00 PM - 09:00 PM	0.0025	0.0017	0.0022	0.0028	0.0021	0.0021	0.0024
09:00 PM - 10:00 PM	0.0024	0.0020	0.0025	0.0025	0.0021	0.0021	0.0027
10:00 PM - 11:00 PM	0.0024	0.0019	0.0023	0.0026	0.0027	0.0026	0.0025
11:00 PM - 12:00 AM	0.0026	0.0016	0.0023	0.0026	0.0021	0.0021	0.0023
12:00 AM - 01:00 AM	0.0023	0.0020	0.0026	0.0025	0.0020	0.0023	0.0024
01:00 AM - 02:00 AM	0.0027	0.0023	0.0023	0.0025	0.0021	0.0019	0.0025
02:00 AM - 03:00 AM	0.0024	0.0014	0.0023	0.0024	0.0021	0.0026	0.0024
03:00 AM - 04:00 AM	0.0025	0.0022	0.0027	0.0025	0.0025	0.0021	0.0023
04:00 AM - 05:00 AM	0.0025	0.0018	0.0023	0.0025	0.0021	0.0021	0.0024
05:00 AM - 06:00 AM	0.0026	0.0018	0.0024	0.0027	0.0021	0.0019	0.0025
06:00 AM - 07:00 AM	0.0025	0.0020	0.0028	0.0025	0.0026	0.0021	0.0024
07:00 AM - 08:00 AM	0.0025	0.0019	0.0023	0.0025	0.0020	0.0021	0.0020
08:00 AM - 09:00 AM	0.0023	0.0021	0.0025	0.0028	0.0021	0.0021	0.0024
09:00 AM - 10:00 AM	0.0024	0.0019	0.0023	0.0025	0.0026	0.0024	0.0026
10:00 AM - 11:00 AM	0.0025	0.0019	0.0023	0.0025	0.0021	0.0025	0.0020
11:00 AM - 12:00 PM	0.0023	0.0016	0.0026	0.0026	0.0021	0.0024	0.0025
12:00 PM - 01:00 PM	0.0024	0.0020	0.0025	0.0027	0.0018	0.0024	0.0020
Average	0.0024	0.0019	0.0023	0.0026	0.0022	0.0022	0.0024
1hr - Maximum	0.0027	0.0025	0.0028	0.0028	0.0027	0.0027	0.0027
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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Scientist (3)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

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Analysis / Test Report

TESTING
No.0042

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: 2511730
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3227687-1

Sample Description Air Quality
Location วัดประชุมมิตรปารุง (GPS 47P 0726443, 1407365)
Date Analysis Commenced Mar 18, 2025
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)
2511730-1	Mar 09 - Mar 10, 2025	0.058	0.034	756*	30.1*
2511730-2	Mar 10 - Mar 11, 2025	0.046	0.031	756*	30.0*
2511730-3	Mar 11 - Mar 12, 2025	0.038	0.019	756*	28.9*
2511730-4	Mar 12 - Mar 13, 2025	0.035	0.021	756*	29.0*
2511730-5	Mar 13 - Mar 14, 2025	0.032	0.022	756*	27.3*
2511730-6	Mar 14 - Mar 15, 2025	0.028	0.015	756*	29.2*
2511730-7	Mar 15 - Mar 16, 2025	0.024	0.016	756*	29.2*
Guideline		0.33	0.12	-	-

Reference Method
Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Metter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

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

Approved by
Thanita Kulsuriwong
Scientist (4)

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

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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 :
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2511730
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3227687-2

Sample Description Air Quality
Location บ้านสำนักนะม่วง (GPS 47P 0728262, 1403382)
Date Analysis Commenced Mar 18, 2025
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)
2511730-8	Mar 09 - Mar 10, 2025	0.066	0.030	756*	30.1*
2511730-9	Mar 10 - Mar 11, 2025	0.059	0.027	756*	30.0*
2511730-10	Mar 11 - Mar 12, 2025	0.033	0.023	756*	28.9*
2511730-11	Mar 12 - Mar 13, 2025	0.037	0.017	756*	29.0*
2511730-12	Mar 13 - Mar 14, 2025	0.042	0.019	756*	27.3*
2511730-13	Mar 14 - Mar 15, 2025	0.033	0.021	756*	29.2*
2511730-14	Mar 15 - Mar 16, 2025	0.026	0.014	756*	30.1*
Guideline		0.33	0.12	-	-

Reference Method
Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Metter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

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

Approved by
Thanita Kulsuriwong
Scientist (4)

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6403-74 / EMAIL S:\Reports_Air Ambient7Days.rpt (10:55AM)

Analysis / Test Report

TESTING
No.0042

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: 2511730
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3227687-3

Sample Description Air Quality
Location วัดป่ากลุกหญ้า (GPS 47P 0730062, 1409672)
Date Analysis Commenced Mar 18, 2025
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)
2511730-15	Mar 09 - Mar 10, 2025	0.030	0.028	756*	30.1*
2511730-16	Mar 10 - Mar 11, 2025	0.046	0.031	756*	30.0*
2511730-17	Mar 11 - Mar 12, 2025	0.059	0.028	756*	28.9*
2511730-18	Mar 12 - Mar 13, 2025	0.060	0.035	756*	29.0*
2511730-19	Mar 13 - Mar 14, 2025	0.039	0.020	756*	27.3*
2511730-20	Mar 14 - Mar 15, 2025	0.047	0.021	756*	29.2*
2511730-21	Mar 15 - Mar 16, 2025	0.039	0.022	756*	30.1*
Guideline		0.33	0.12	-	-

Reference Method
Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Metter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

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

Approved by
Thanita Kulsuriwong
Scientist (4)

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6403-74 / EMAIL S:\Reports_Air Ambient7Days.rpt (10:56AM)

Analysis / Test Report

TESTING
No.0042

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: 2511730
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3227687-4

Sample Description Air Quality
Location วัดมาบชลุด (GPS 47P 0730822, 1407376)
Date Analysis Commenced Mar 18, 2025
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)
2511730-22	Mar 09 - Mar 10, 2025	0.063	0.038	756*	30.1*
2511730-23	Mar 10 - Mar 11, 2025	0.069	0.039	756*	30.0*
2511730-24	Mar 11 - Mar 12, 2025	0.044	0.025	756*	28.9*
2511730-25	Mar 12 - Mar 13, 2025	0.043	0.024	756*	29.0*
2511730-26	Mar 13 - Mar 14, 2025	0.046	0.025	756*	27.3*
2511730-27	Mar 14 - Mar 15, 2025	0.037	0.020	756*	29.2*
2511730-28	Mar 15 - Mar 16, 2025	0.024	0.016	756*	30.1*
Guideline		0.33	0.12	-	-

Reference Method
Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Metter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

Remark : Result (s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
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Approved by
Thanita Kulsuriwong
Scientist (4)

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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: 2511731
Date Received :Mar 17, 2025
Date Reported :Mar 25, 2025
Report Number :3227676-1

Sample Number 2511731-1 to 7
Parameter Wind Speed / Wind Direction
Location วัดประชุมมิตรบำรุง (GPS 47P 0726443, 1407365)
Sampling Date Mar 09 - Mar 16, 2025
Sampling by Saknarin Jaraskay

Time	Mar 09 - Mar 10, 2025		Mar 10 - Mar 11, 2025		Mar 11 - Mar 12, 2025		Mar 12 - Mar 13, 2025		Mar 13 - Mar 14, 2025		Mar 14 - Mar 15, 2025		Mar 15 - Mar 16, 2025	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
11:00 AM - 12:00 PM	0.5	100.0 E	0.7	20.0 NNE	0.9	187.0 S	1.5	22.0 NNE	0.5	38.0 NE	0.6	60.0 ENE	0.8	103.0 ESE
12:00 PM - 01:00 PM	0.7	52.0 NE	2.7	66.0 ENE	0.8	140.0 SE	0.9	105.0 ESE	1.2	65.0 ENE	1.3	128.0 SE	0.8	111.0 ESE
01:00 PM - 02:00 PM	1.9	112.0 ESE	1.8	267.0 W	1.6	111.0 ESE	0.7	66.0 ENE	2.2	196.0 SSW	1.9	172.0 S	0.8	126.0 SE
02:00 PM - 03:00 PM	3.7	199.0 SSW	2.6	236.0 SW	1.0	107.0 ESE	1.3	153.0 SSE	1.3	129.0 SE	0.9	128.0 SE	4.0	169.0 S
03:00 PM - 04:00 PM	0.8	76.0 ENE	0.2	- -	1.2	126.0 SE	1.3	109.0 ESE	1.2	122.0 ESE	0.4	68.0 ENE	0.7	16.0 NNE
04:00 PM - 05:00 PM	1.4	172.0 S	1.3	143.0 SE	1.8	121.0 ESE	1.5	180.0 S	1.1	357.0 N	0.8	98.0 E	3.8	206.0 SSW
05:00 PM - 06:00 PM	0.8	194.0 SSW	1.4	193.0 SSW	1.0	168.0 SSE	0.2	- -	0.8	356.0 N	1.2	183.0 S	1.5	170.0 S
06:00 PM - 07:00 PM	0.0	- -	0.0	- -	1.0	227.0 SW	0.4	172.0 S	0.0	- -	0.7	177.0 S	1.4	192.0 SSW
07:00 PM - 08:00 PM	0.0	- -	0.0	- -	1.0	95.0 E	0.2	- -	0.0	- -	0.2	- -	0.9	161.0 SSE
08:00 PM - 09:00 PM	0.0	- -	0.0	- -	0.2	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -
09:00 PM - 10:00 PM	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -
10:00 PM - 11:00 PM	0.6	311.0 NW	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -
11:00 PM - 12:00 AM	0.0	- -	0.0	- -	0.0	- -	0.2	- -	0.0	- -	0.0	- -	0.0	- -
12:00 AM - 01:00 AM	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -
01:00 AM - 02:00 AM	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -
02:00 AM - 03:00 AM	0.0	- -	0.0	- -	0.0	- -	1.1	203.0 SSW	0.0	- -	0.0	- -	0.0	- -
03:00 AM - 04:00 AM	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.6	143.0 SE	0.0	- -
04:00 AM - 05:00 AM	0.0	- -	0.0	- -	0.1	- -	0.0	- -	0.0	- -	0.1	- -	0.0	- -
05:00 AM - 06:00 AM	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -
06:00 AM - 07:00 AM	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -	0.0	- -
07:00 AM - 08:00 AM	0.2	- -	0.0	- -	1.7	230.0 SW	0.2	- -	0.0	- -	0.0	- -	2.2	200.0 SSW
08:00 AM - 09:00 AM	1.4	342.0 NNW	0.0	- -	2.1	142.0 SE	0.4	350.0 N	0.0	- -	0.9	144.0 SE	0.2	- -
09:00 AM - 10:00 AM	0.2	- -	0.7	233.0 SW	0.8	114.0 ESE	0.0	- -	0.2	- -	0.6	55.0 NE	0.6	155.0 SSE
10:00 AM - 11:00 AM	1.6	352.0 N	1.3	54.0 NE	0.8	112.0 ESE	0.7	62.0 ENE	2.7	205.0 SSW	0.7	181.0 S	0.7	145.0 SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont
Assistant General Manager

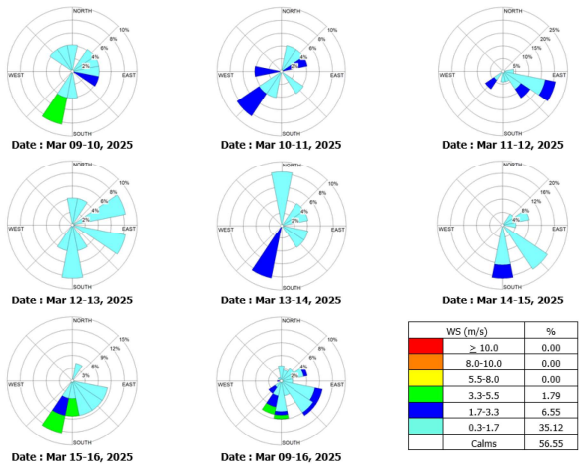
Analysis / Test Report

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: 2511731
Date Received :Mar 17, 2025
Date Reported :Mar 25, 2025
Report Number :3227676-1

Wind Rose



WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	1.79
1.7-3.3	6.55
0.3-1.7	35.12
Calms	56.55

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Approved by
Sarayuth Jittranont
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 :
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2511750
Date Received : Mar 11, 2025
Date Reported : Mar 18, 2025
Report Number: 3227716-2

Sample Number 2511750-1
Sampled Date Mar 11, 2025
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 12, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	758	mmHg	Diameter	3.30	m	Oxygen	14.0	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%
Type of Process	Combustion		Stack Temperature	133	°C	Gas Velocity	19.8	m/s
Type of Fuel	Natural Gas		Moisture	9.06	%	Flow Rate (Actual O2)	405590	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O2	Result at 14.0 % O2	Method	Testing Location
Air Testing								
Ammonia	11:15 AM - 11:45 AM	ppm	-	0.02	0.20	0.10	In-house method based on Method of Air Sampling and Analysis, 401	Rayong

Approved by
Thanita Kulsuriwong
Scientist (4)

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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: 2511750
Date Received : Mar 11, 2025
Date Reported : Mar 18, 2025
Report Number: 3227716-2

Sample Number 2511750-1
Sampled Date Mar 11, 2025
Sample Description Emission from Stationary Source
Location HRSGs 1
Date Analysis Commenced Mar 12, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	758	mmHg	Diameter	3.30	m	Oxygen	14.0	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%
Type of Process	Combustion		Stack Temperature	133	°C	Gas Velocity	19.8	m/s
Type of Fuel	Natural Gas		Moisture	9.06	%	Flow Rate (Actual O2)	405590	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Ammonia	11:15 AM - 11:45 AM	g/s	-	-	0.008	Calculated	Rayong

Sampling By : Panuwat Wangbong

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

Approved by
Thanita Kulsuriwong
Scientist (4)

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6403-74/ EMAIL S:\Reports_Air Stack_O2_NoGL.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 :
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263271-1

Sample Number 2511746-1
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มวิโรงงานด้านทางเข้าโครงการ (GPS 47P 0727956, 1405409)
Measurement Date Mar 09 - Mar 10, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.0	78.9	45.4
11:00 AM - 12:00 PM	51.8	73.3	45.3
12:00 PM - 01:00 PM	50.4	72.1	47.0
01:00 PM - 02:00 PM	50.7	74.0	48.3
02:00 PM - 03:00 PM	52.7	75.3	48.0
03:00 PM - 04:00 PM	50.1	71.9	47.3
04:00 PM - 05:00 PM	55.1	86.4	47.1
05:00 PM - 06:00 PM	53.9	75.3	47.5
06:00 PM - 07:00 PM	54.8	81.5	48.4
07:00 PM - 08:00 PM	53.8	81.8	48.2
08:00 PM - 09:00 PM	49.9	68.6	48.3
09:00 PM - 10:00 PM	51.1	73.3	49.1
10:00 PM - 11:00 PM	51.0	70.9	49.0
11:00 PM - 12:00 AM	55.1	80.4	49.7
12:00 AM - 01:00 AM	51.4	85.1	50.0
01:00 AM - 02:00 AM	51.3	76.0	48.3
02:00 AM - 03:00 AM	50.5	68.3	48.9
03:00 AM - 04:00 AM	51.3	59.8	50.1
04:00 AM - 05:00 AM	54.4	78.4	51.0
05:00 AM - 06:00 AM	55.5	79.0	50.4
06:00 AM - 07:00 AM	56.8	78.9	49.1
07:00 AM - 08:00 AM	56.4	81.5	47.6
08:00 AM - 09:00 AM	56.9	83.3	47.8
09:00 AM - 10:00 AM	59.5	87.6	47.1
Leq Average 24 hrs. (dB(A))	54.1		
Lmax (dB(A))		87.6	
L90 (dB(A))			48.3
Ldn (dB(A))	60.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by 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 :
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263272-1

Sample Number 2511746-2
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มวิโรงงานด้านทางเข้าโครงการ (GPS 47P 0727956, 1405409)
Measurement Date Mar 10 - Mar 11, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.4	81.4	46.7
11:00 AM - 12:00 PM	56.6	84.9	48.0
12:00 PM - 01:00 PM	55.2	83.5	48.3
01:00 PM - 02:00 PM	53.8	76.3	48.1
02:00 PM - 03:00 PM	60.8	90.3	47.6
03:00 PM - 04:00 PM	54.3	79.1	47.8
04:00 PM - 05:00 PM	60.2	89.1	47.3
05:00 PM - 06:00 PM	55.5	82.5	47.4
06:00 PM - 07:00 PM	57.6	87.0	47.4
07:00 PM - 08:00 PM	49.0	71.6	47.5
08:00 PM - 09:00 PM	51.0	72.5	47.5
09:00 PM - 10:00 PM	53.5	75.1	49.3
10:00 PM - 11:00 PM	51.2	64.6	49.4
11:00 PM - 12:00 AM	52.3	72.4	49.7
12:00 AM - 01:00 AM	54.6	99.5	50.0
01:00 AM - 02:00 AM	51.7	67.8	50.1
02:00 AM - 03:00 AM	51.7	71.3	50.2
03:00 AM - 04:00 AM	51.6	72.2	50.0
04:00 AM - 05:00 AM	52.1	79.5	48.6
05:00 AM - 06:00 AM	53.7	73.2	48.3
06:00 AM - 07:00 AM	58.7	84.8	48.4
07:00 AM - 08:00 AM	55.7	76.3	48.1
08:00 AM - 09:00 AM	53.8	74.6	46.8
09:00 AM - 10:00 AM	56.3	77.0	48.1
Leq Average 24 hrs. (dB(A))	56.6		
Lmax (dB(A))		99.5	
L90 (dB(A))			48.1
Ldn (dB(A))	63.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by Supot Salamteh, Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

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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 :
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263273-1

Sample Number 2511746-3
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มวิโรงงานด้านทางเข้าโครงการ (GPS 47P 0727956, 1405409)
Measurement Date Mar 11 - Mar 12, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.1	81.8	48.2
11:00 AM - 12:00 PM	51.2	75.6	47.7
12:00 PM - 01:00 PM	57.5	88.8	47.8
01:00 PM - 02:00 PM	54.2	78.8	47.8
02:00 PM - 03:00 PM	56.2	93.3	48.9
03:00 PM - 04:00 PM	57.7	88.0	48.6
04:00 PM - 05:00 PM	58.2	86.6	48.3
05:00 PM - 06:00 PM	57.7	87.0	48.4
06:00 PM - 07:00 PM	55.4	83.0	48.5
07:00 PM - 08:00 PM	50.5	68.1	48.5
08:00 PM - 09:00 PM	51.9	73.1	49.2
09:00 PM - 10:00 PM	50.9	66.6	49.3
10:00 PM - 11:00 PM	51.8	73.7	49.5
11:00 PM - 12:00 AM	50.9	67.6	49.1
12:00 AM - 01:00 AM	50.9	64.3	49.5
01:00 AM - 02:00 AM	51.0	70.0	49.9
02:00 AM - 03:00 AM	51.0	60.6	49.4
03:00 AM - 04:00 AM	51.9	71.7	48.9
04:00 AM - 05:00 AM	53.1	78.0	49.6
05:00 AM - 06:00 AM	55.2	74.7	49.8
06:00 AM - 07:00 AM	60.2	86.3	49.9
07:00 AM - 08:00 AM	57.2	77.8	49.6
08:00 AM - 09:00 AM	55.3	76.1	48.3
09:00 AM - 10:00 AM	57.8	78.5	49.6
Leq Average 24 hrs. (dB(A))	55.3		
Lmax (dB(A))		93.3	
L90 (dB(A))			48.9
Ldn (dB(A))	60.9		
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 Chonticha Subongkoch, Scientist (3)
Approved by 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 :
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263274-1

Sample Number 2511746-4
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มวิโรงงานด้านทางเข้าโครงการ (GPS 47P 0727956, 1405409)
Measurement Date Mar 12 - Mar 13, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.8	77.6	50.0
11:00 AM - 12:00 PM	59.8	90.5	49.9
12:00 PM - 01:00 PM	59.2	90.9	49.2
01:00 PM - 02:00 PM	54.5	76.0	47.9
02:00 PM - 03:00 PM	55.4	70.6	48.1
03:00 PM - 04:00 PM	58.4	87.2	47.9
04:00 PM - 05:00 PM	53.6	75.6	47.0
05:00 PM - 06:00 PM	57.5	87.9	47.3
06:00 PM - 07:00 PM	54.6	76.0	48.1
07:00 PM - 08:00 PM	55.7	77.4	48.6
08:00 PM - 09:00 PM	54.4	76.2	48.5
09:00 PM - 10:00 PM	58.4	86.2	48.6
10:00 PM - 11:00 PM	58.9	86.3	48.9
11:00 PM - 12:00 AM	54.6	78.9	48.9
12:00 AM - 01:00 AM	52.0	73.4	49.4
01:00 AM - 02:00 AM	52.4	67.0	50.4
02:00 AM - 03:00 AM	51.2	60.3	49.9
03:00 AM - 04:00 AM	51.3	71.5	49.8
04:00 AM - 05:00 AM	52.0	72.2	49.5
05:00 AM - 06:00 AM	49.9	67.8	48.7
06:00 AM - 07:00 AM	49.1	60.0	48.1
07:00 AM - 08:00 AM	50.6	79.5	48.1
08:00 AM - 09:00 AM	49.9	75.8	47.7
09:00 AM - 10:00 AM	49.9	60.8	47.9
Leq Average 24 hrs. (dB(A))	55.3		
Lmax (dB(A))		90.9	
L90 (dB(A))			48.6
Ldn (dB(A))	60.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by 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 :
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263275-1

Sample Number 2511746-5
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มโรงงานด้านทางเข้าโครงการ (GPS 47P 0727956, 1405409)
Measurement Date Mar 13 - Mar 14, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.9	87.9	48.8
11:00 AM - 12:00 PM	54.4	77.9	48.0
12:00 PM - 01:00 PM	66.3	87.8	50.1
01:00 PM - 02:00 PM	57.6	85.6	49.4
02:00 PM - 03:00 PM	54.3	77.7	48.6
03:00 PM - 04:00 PM	57.4	81.8	48.0
04:00 PM - 05:00 PM	60.1	86.8	48.6
05:00 PM - 06:00 PM	61.7	90.2	48.5
06:00 PM - 07:00 PM	56.2	81.2	49.3
07:00 PM - 08:00 PM	51.8	74.4	50.0
08:00 PM - 09:00 PM	53.4	76.1	50.4
09:00 PM - 10:00 PM	52.5	74.1	50.2
10:00 PM - 11:00 PM	54.1	74.6	51.5
11:00 PM - 12:00 AM	53.6	80.1	50.4
12:00 AM - 01:00 AM	54.1	79.0	51.3
01:00 AM - 02:00 AM	53.2	78.2	51.4
02:00 AM - 03:00 AM	52.7	62.3	51.0
03:00 AM - 04:00 AM	51.4	72.0	49.7
04:00 AM - 05:00 AM	51.3	63.9	50.2
05:00 AM - 06:00 AM	55.7	84.0	50.5
06:00 AM - 07:00 AM	58.4	82.6	49.7
07:00 AM - 08:00 AM	57.0	77.3	48.9
08:00 AM - 09:00 AM	53.6	76.9	48.2
09:00 AM - 10:00 AM	56.0	75.9	48.0
Leq Average 24 hrs. (dB(A))	57.6		
Lmax (dB(A))		90.2	
L90 (dB(A))			49.7
Ldn (dB(A))	61.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by Supot Salamteh, Section Head

Analysis / Test Report

TESTING
No.0042

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: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263276-1

Sample Number 2511746-6
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มโรงงานด้านทางเข้าโครงการ (GPS 47P 0727956, 1405409)
Measurement Date Mar 14 - Mar 15, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.6	79.1	47.8
11:00 AM - 12:00 PM	55.8	84.2	48.4
12:00 PM - 01:00 PM	55.1	78.7	49.0
01:00 PM - 02:00 PM	55.6	79.4	49.2
02:00 PM - 03:00 PM	59.3	87.9	48.8
03:00 PM - 04:00 PM	55.2	80.5	48.3
04:00 PM - 05:00 PM	58.6	85.6	48.0
05:00 PM - 06:00 PM	55.3	79.3	48.2
06:00 PM - 07:00 PM	56.2	77.6	48.9
07:00 PM - 08:00 PM	52.4	78.5	48.7
08:00 PM - 09:00 PM	51.5	72.2	49.4
09:00 PM - 10:00 PM	51.7	73.2	49.3
10:00 PM - 11:00 PM	52.3	78.1	49.2
11:00 PM - 12:00 AM	51.3	72.4	49.2
12:00 AM - 01:00 AM	50.5	69.9	49.9
01:00 AM - 02:00 AM	51.2	73.2	49.5
02:00 AM - 03:00 AM	50.8	69.0	49.6
03:00 AM - 04:00 AM	50.6	65.2	49.4
04:00 AM - 05:00 AM	50.7	72.4	49.3
05:00 AM - 06:00 AM	55.6	80.2	50.2
06:00 AM - 07:00 AM	56.9	79.6	49.2
07:00 AM - 08:00 AM	54.1	75.8	48.3
08:00 AM - 09:00 AM	53.4	73.5	48.2
09:00 AM - 10:00 AM	51.8	71.7	48.5
Leq Average 24 hrs. (dB(A))	54.6		
Lmax (dB(A))		87.9	
L90 (dB(A))			48.9
Ldn (dB(A))	59.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by Supot Salamteh, Section Head

Analysis / Test Report

TESTING
No.0042

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: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263277-1

Sample Number 2511746-7
Parameter Noise (Leq 24 hrs)
Location บริเวณเริ่มโรงงานด้านทางเข้าโครงการ (GPS 47P 0727956, 1405409)
Measurement Date Mar 15 - Mar 16, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.7	71.5	47.9
11:00 AM - 12:00 PM	51.3	76.3	47.8
12:00 PM - 01:00 PM	50.8	70.8	48.3
01:00 PM - 02:00 PM	51.8	72.9	47.9
02:00 PM - 03:00 PM	52.4	74.7	48.9
03:00 PM - 04:00 PM	53.7	72.8	49.0
04:00 PM - 05:00 PM	58.8	86.4	48.4
05:00 PM - 06:00 PM	55.1	75.0	48.6
06:00 PM - 07:00 PM	56.0	80.5	49.3
07:00 PM - 08:00 PM	51.4	81.2	49.3
08:00 PM - 09:00 PM	51.8	78.3	49.3
09:00 PM - 10:00 PM	52.2	75.0	50.3
10:00 PM - 11:00 PM	52.5	70.1	50.4
11:00 PM - 12:00 AM	52.5	71.7	50.1
12:00 AM - 01:00 AM	51.0	69.4	49.5
01:00 AM - 02:00 AM	51.7	72.7	49.6
02:00 AM - 03:00 AM	51.0	70.4	49.5
03:00 AM - 04:00 AM	50.9	58.2	49.6
04:00 AM - 05:00 AM	51.4	80.3	49.4
05:00 AM - 06:00 AM	56.2	78.2	49.9
06:00 AM - 07:00 AM	57.8	81.7	49.3
07:00 AM - 08:00 AM	55.1	78.7	48.9
08:00 AM - 09:00 AM	55.7	80.9	48.4
09:00 AM - 10:00 AM	53.0	72.9	49.7
Leq Average 24 hrs. (dB(A))	53.8		
Lmax (dB(A))		86.4	
L90 (dB(A))			49.3
Ldn (dB(A))	60.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by Supot Salamteh, Section Head

Analysis / Test Report

TESTING
No.0042

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: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263278-1

Sample Number 2511746-8
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมะม่วง (GPS 47P 0728246, 1403366)
Measurement Date Mar 09 - Mar 10, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.3	80.2	46.7
11:00 AM - 12:00 PM	54.1	82.1	40.2
12:00 PM - 01:00 PM	48.1	72.9	44.8
01:00 PM - 02:00 PM	48.0	65.8	46.0
02:00 PM - 03:00 PM	46.6	68.0	45.9
03:00 PM - 04:00 PM	48.6	72.4	45.6
04:00 PM - 05:00 PM	48.7	73.2	45.5
05:00 PM - 06:00 PM	50.3	76.1	45.5
06:00 PM - 07:00 PM	49.4	73.5	45.8
07:00 PM - 08:00 PM	47.3	69.1	45.2
08:00 PM - 09:00 PM	47.1	61.0	45.4
09:00 PM - 10:00 PM	47.7	68.1	45.7
10:00 PM - 11:00 PM	48.6	56.0	46.2
11:00 PM - 12:00 AM	49.3	70.6	46.4
12:00 AM - 01:00 AM	49.3	76.6	46.4
01:00 AM - 02:00 AM	49.0	57.7	40.5
02:00 AM - 03:00 AM	50.3	60.1	48.4
03:00 AM - 04:00 AM	50.8	54.5	49.2
04:00 AM - 05:00 AM	49.8	55.9	48.4
05:00 AM - 06:00 AM	49.9	59.6	48.7
06:00 AM - 07:00 AM	53.5	70.2	49.5
07:00 AM - 08:00 AM	52.3	74.3	49.8
08:00 AM - 09:00 AM	53.0	72.3	47.8
09:00 AM - 10:00 AM	49.9	67.2	46.9
Leq Average 24 hrs. (dB(A))	50.5		
Lmax (dB(A))		82.1	
L90 (dB(A))			46.2
Ldn (dB(A))	56.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by Supot Salamteh, Section Head

Analysis / Test Report

TESTING
No.0042

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: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263279-1

Sample Number 2511746-9
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมะม่วง (GPS 47P 0728246, 1403366)
Measurement Date Mar 10 - Mar 11, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.3	68.4	46.1
11:00 AM - 12:00 PM	57.1	85.4	48.5
12:00 PM - 01:00 PM	55.7	84.0	48.8
01:00 PM - 02:00 PM	54.3	76.8	48.6
02:00 PM - 03:00 PM	61.3	90.8	48.1
03:00 PM - 04:00 PM	54.8	79.6	48.3
04:00 PM - 05:00 PM	60.7	89.6	47.8
05:00 PM - 06:00 PM	56.0	83.0	47.9
06:00 PM - 07:00 PM	58.1	87.5	47.9
07:00 PM - 08:00 PM	49.5	72.1	48.0
08:00 PM - 09:00 PM	51.5	73.0	48.0
09:00 PM - 10:00 PM	54.0	75.6	49.8
10:00 PM - 11:00 PM	51.7	65.1	49.9
11:00 PM - 12:00 AM	52.8	72.9	50.2
12:00 AM - 01:00 AM	55.1	100.0	51.1
01:00 AM - 02:00 AM	52.2	68.3	50.6
02:00 AM - 03:00 AM	52.1	71.7	50.6
03:00 AM - 04:00 AM	52.0	72.6	50.4
04:00 AM - 05:00 AM	52.5	79.9	49.0
05:00 AM - 06:00 AM	54.1	73.6	48.7
06:00 AM - 07:00 AM	59.1	85.2	48.8
07:00 AM - 08:00 AM	56.1	76.7	48.5
08:00 AM - 09:00 AM	54.2	75.0	47.2
09:00 AM - 10:00 AM	56.7	77.4	48.5
Leq Average 24 hrs. (dB(A))	57.0		
Lmax (dB(A))		100.0	
L90 (dB(A))			48.5
Ldn (dB(A))	64.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by Supot Salamteh, Section Head

Analysis / Test Report

TESTING
No.0042

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: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263280-1

Sample Number 2511746-10
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมะม่วง (GPS 47P 0728246, 1403366)
Measurement Date Mar 11 - Mar 12, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.5	82.2	48.6
11:00 AM - 12:00 PM	51.6	76.0	48.1
12:00 PM - 01:00 PM	57.9	89.2	48.2
01:00 PM - 02:00 PM	54.6	79.2	48.2
02:00 PM - 03:00 PM	56.6	93.7	49.3
03:00 PM - 04:00 PM	58.1	88.4	49.0
04:00 PM - 05:00 PM	58.5	86.9	48.6
05:00 PM - 06:00 PM	58.0	87.3	48.7
06:00 PM - 07:00 PM	55.7	83.3	48.8
07:00 PM - 08:00 PM	50.8	68.4	48.8
08:00 PM - 09:00 PM	52.2	73.4	49.5
09:00 PM - 10:00 PM	51.2	66.9	49.6
10:00 PM - 11:00 PM	52.1	74.0	49.8
11:00 PM - 12:00 AM	51.2	67.9	49.4
12:00 AM - 01:00 AM	51.2	64.6	49.6
01:00 AM - 02:00 AM	51.3	71.1	50.2
02:00 AM - 03:00 AM	51.3	60.9	49.7
03:00 AM - 04:00 AM	52.2	72.0	49.2
04:00 AM - 05:00 AM	53.4	78.3	49.9
05:00 AM - 06:00 AM	55.5	75.0	50.1
06:00 AM - 07:00 AM	60.5	86.6	50.2
07:00 AM - 08:00 AM	57.5	78.1	49.9
08:00 AM - 09:00 AM	55.9	76.7	48.9
09:00 AM - 10:00 AM	58.4	79.1	50.2
Leq Average 24 hrs. (dB(A))	55.7		
Lmax (dB(A))		93.7	
L90 (dB(A))			49.3
Ldn (dB(A))	61.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by Supot Salamteh, Section Head

Analysis / Test Report

TESTING
No.0042

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: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263281-1

Sample Number 2511746-11
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมะม่วง (GPS 47P 0728246, 1403366)
Measurement Date Mar 12 - Mar 13, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.4	78.2	50.6
11:00 AM - 12:00 PM	60.4	91.1	50.5
12:00 PM - 01:00 PM	59.8	91.5	49.8
01:00 PM - 02:00 PM	55.1	76.6	48.5
02:00 PM - 03:00 PM	56.0	79.2	48.7
03:00 PM - 04:00 PM	59.0	87.8	48.5
04:00 PM - 05:00 PM	54.2	76.2	47.6
05:00 PM - 06:00 PM	58.1	88.5	47.9
06:00 PM - 07:00 PM	55.2	76.6	48.7
07:00 PM - 08:00 PM	56.3	78.0	49.2
08:00 PM - 09:00 PM	55.0	76.8	49.1
09:00 PM - 10:00 PM	59.0	86.8	49.2
10:00 PM - 11:00 PM	59.4	86.8	49.4
11:00 PM - 12:00 AM	55.1	79.4	49.4
12:00 AM - 01:00 AM	52.5	73.9	49.9
01:00 AM - 02:00 AM	52.9	67.5	50.9
02:00 AM - 03:00 AM	51.7	60.8	50.4
03:00 AM - 04:00 AM	51.8	72.0	50.3
04:00 AM - 05:00 AM	52.5	72.7	50.0
05:00 AM - 06:00 AM	50.4	68.3	49.2
06:00 AM - 07:00 AM	49.6	60.5	48.6
07:00 AM - 08:00 AM	51.1	80.0	48.6
08:00 AM - 09:00 AM	50.4	76.3	48.2
09:00 AM - 10:00 AM	50.4	61.3	48.4
Leq Average 24 hrs. (dB(A))	55.9		
Lmax (dB(A))		91.5	
L90 (dB(A))			49.2
Ldn (dB(A))	60.9		
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 Chonticha Subongkoch, Scientist (3)
Approved by Supot Salamteh, Section Head

Analysis / Test Report

TESTING
No.0042

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: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263282-1

Sample Number 2511746-12
Parameter Noise (Leq 24 hrs)
Location บ้านสำนักมะม่วง (GPS 47P 0728246, 1403366)
Measurement Date Mar 13 - Mar 14, 2025
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.0	82.0	46.9
11:00 AM - 12:00 PM	50.5	65.8	48.6
12:00 PM - 01:00 PM	51.5	66.4	48.4
01:00 PM - 02:00 PM	52.0	81.1	49.0
02:00 PM - 03:00 PM	51.1	68.1	48.5
03:00 PM - 04:00 PM	50.7	76.5	48.4
04:00 PM - 05:00 PM	52.8	82.5	48.8
05:00 PM - 06:00 PM	51.0	74.6	48.8
06:00 PM - 07:00 PM	50.3	76.6	47.3
07:00 PM - 08:00 PM	51.5	78.1	48.1
08:00 PM - 09:00 PM	52.5	72.3	48.7
09:00 PM - 10:00 PM	49.6	58.3	47.1
10:00 PM - 11:00 PM	48.2	61.8	46.3
11:00 PM - 12:00 AM	49.7	58.1	46.0
12:00 AM - 01:00 AM	50.4	62.5	46.7
01:00 AM - 02:00 AM	50.4	61.7	46.7
02:00 AM - 03:00 AM	50.8	55.2	47.0
03:00 AM - 04:00 AM	50.9	55.9	47.3
04:00 AM - 05:00 AM	50.6	70.2	47.2
05:00 AM - 06:00 AM	50.0	65.0	47.0
06:00 AM - 07:00 AM	54.9	74.1	51.0
07:00 AM - 08:00 AM	55.6	75.5	50.5
08:00 AM - 09:00 AM	52.9	68.5	49.1
09:00 AM - 10:00 AM	53.2	76.3	48.3
Leq Average 24 hrs. (dB(A))	51.8		
Lmax (dB(A))		82.5	
L90 (dB(A))			48.1
Ldn (dB(A))	57.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch, Scientist (3)
Approved by Supot Salamteh, Section Head

Analysis / Test Report

TESTING
No.0042

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: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263283-1

Sample Number	2511746-13
Parameter	Noise (Leq 24 hrs)
Location	บ้านสำนักแม่ม่วง (GPS 47P 0728246, 1403366)
Measurement Date	Mar 14 - Mar 15, 2025
Measurement by	Saknarin Jaraskay
Sound Level meter	Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.2	73.6	48.0
11:00 AM - 12:00 PM	51.0	69.9	48.2
12:00 PM - 01:00 PM	53.5	71.5	48.4
01:00 PM - 02:00 PM	54.6	78.4	48.4
02:00 PM - 03:00 PM	50.7	66.8	48.5
03:00 PM - 04:00 PM	55.8	81.1	48.9
04:00 PM - 05:00 PM	59.2	86.2	48.6
05:00 PM - 06:00 PM	55.9	79.9	48.8
06:00 PM - 07:00 PM	56.8	78.2	49.5
07:00 PM - 08:00 PM	53.0	79.1	49.3
08:00 PM - 09:00 PM	52.1	72.8	50.0
09:00 PM - 10:00 PM	52.3	73.8	49.9
10:00 PM - 11:00 PM	52.9	78.7	49.8
11:00 PM - 12:00 AM	51.9	73.0	49.8
12:00 AM - 01:00 AM	51.1	69.5	49.5
01:00 AM - 02:00 AM	51.8	73.8	50.1
02:00 AM - 03:00 AM	51.4	69.6	50.2
03:00 AM - 04:00 AM	51.2	65.8	50.0
04:00 AM - 05:00 AM	51.3	73.0	49.9
05:00 AM - 06:00 AM	56.2	80.8	50.8
06:00 AM - 07:00 AM	57.3	80.0	49.6
07:00 AM - 08:00 AM	54.5	76.2	48.7
08:00 AM - 09:00 AM	53.8	73.9	48.6
09:00 AM - 10:00 AM	52.2	72.1	48.9
Leq Average 24 hrs. (dB(A))	54.1		
Lmax (dB(A))		86.2	
L90 (dB(A))			49.3
Ldn (dB(A))	60.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

TESTING
No.0042

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: 2511746
Date Received : Mar 17, 2025
Date Reported : Mar 21, 2025
Report Number: 3263284-1

Sample Number	2511746-14
Parameter	Noise (Leq 24 hrs)
Location	บ้านสำนักแม่ม่วง (GPS 47P 0728246, 1403366)
Measurement Date	Mar 15 - Mar 16, 2025
Measurement by	Saknarin Jaraskay
Sound Level meter	Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	51.1	71.9	48.3
11:00 AM - 12:00 PM	51.7	76.7	48.2
12:00 PM - 01:00 PM	51.2	71.2	48.7
01:00 PM - 02:00 PM	52.2	73.3	48.3
02:00 PM - 03:00 PM	52.8	75.1	49.3
03:00 PM - 04:00 PM	54.1	73.2	49.4
04:00 PM - 05:00 PM	59.2	86.8	48.8
05:00 PM - 06:00 PM	55.7	75.6	49.2
06:00 PM - 07:00 PM	56.6	81.1	49.9
07:00 PM - 08:00 PM	52.0	81.8	49.9
08:00 PM - 09:00 PM	52.4	78.9	49.9
09:00 PM - 10:00 PM	52.8	75.6	50.9
10:00 PM - 11:00 PM	53.1	70.7	51.0
11:00 PM - 12:00 AM	53.1	72.3	50.7
12:00 AM - 01:00 AM	51.6	70.0	50.1
01:00 AM - 02:00 AM	52.4	73.4	50.3
02:00 AM - 03:00 AM	51.7	71.1	50.2
03:00 AM - 04:00 AM	51.6	58.9	50.3
04:00 AM - 05:00 AM	52.1	81.0	50.1
05:00 AM - 06:00 AM	56.9	78.9	50.6
06:00 AM - 07:00 AM	58.5	82.4	50.0
07:00 AM - 08:00 AM	55.8	79.4	49.6
08:00 AM - 09:00 AM	56.4	81.6	49.1
09:00 AM - 10:00 AM	53.7	73.6	50.4
Leq Average 24 hrs. (dB(A))	54.4		
Lmax (dB(A))		86.8	
L90 (dB(A))			49.9
Ldn (dB(A))	60.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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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 :
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 24145283
Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215093-1

Sample Number	24145283-1
Sampled Date	Jan 08, 2025 11:17 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Jan 08, 2025
Condition of Samole	Contained in two BOD bottles, 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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	28.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	282	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.4	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Technical Management Photchana S.
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

Analysis / Test Report

TESTING
No.0042

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: 24145283
Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215093-1

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Suphanat Sakulkittimasak ทะเบียนเลขที่ ว-323-จ-0021 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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 Photchana S.
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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6403-74/ EMAIL S:\Reports\MoRef_All_GL.rpt (3:15PM)

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: 24145283
Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215093-2

Sample Number	24145283-1
Sampled Date	Jan 08, 2025 11:17 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Jan 10, 2025
Condition of Sample	Contained in two BOD bottles, 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							
Copper	mg/L	0.0003	0.0005	0.57	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Suphanat Sakulkittimasak ทะเบียนเลขที่ ว-323-ง-0021 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-ง-0002

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
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-ง-0007

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ก-0004

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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: 24145283
Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215093-3

Sample Number	24145283-1
Sampled Date	Jan 08, 2025 11:17 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Jan 09, 2025
Condition of Sample	Contained in two BOD bottles, 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	1.14	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	33	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	315	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	5.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	No Velocity	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.65	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	54	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L		1	37	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong

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Approved by
Sawitree Noisangiam
Manager

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

TESTING
No.0009

Client : 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: 24145283
Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215093-3

Sample Number	24145283-1
Sampled Date	Jan 08, 2025 11:17 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Jan 09, 2025
Condition of Sample	Contained in two BOD bottles, 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							
Turbidity *	NTU	-	0.1	1.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Suphanat Sakulkittimasak , Pattarapol Sawangjaitam

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

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

Approved by
Sawitree Noisangiam
Manager

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

TESTING
No.0042

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: 24145285
Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239456-1

Sample Number	24145285-1
Sampled Date	Feb 11, 2025 11:15 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Feb 11, 2025
Condition of Sample	Contained in 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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	68	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	28.5	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	342	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	17.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-ง-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-0001

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Analysis / Test Report

TESTING
No.0042

Lot ID: 24145285

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

Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239456-1

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-0038 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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 Photchana S.
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

TESTING
No.0009

Lot ID: 24145285

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

Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239456-2

Sample Number	24145285-1
Sampled Date	Feb 11, 2025 11:15 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Feb 13, 2025
Condition of Sample	Contained in 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							
Copper	mg/L	0.0003	0.0005	0.59	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-0038 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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 Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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

Analysis / Test Report

TESTING
No.0009

Lot ID: 24145285

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

Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239456-3

Sample Number	24145285-1
Sampled Date	Feb 11, 2025 11:15 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Feb 11, 2025
Condition of Sample	Contained in 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	1.14	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	28	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Flow rate *	m3/s	-	-	0.004	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.46	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	5.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	61	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	77	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong

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Approved by Sawitree N.
Sawitree Noisangiam
Manager

Analysis / Test Report

TESTING
No.0009

Lot ID: 24145285

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

Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239456-3

Sample Number	24145285-1
Sampled Date	Feb 11, 2025 11:15 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Feb 11, 2025
Condition of Sample	Contained in 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							
Turbidity *	NTU	-	0.1	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

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.

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

Approved by Sawitree N.
Sawitree Noisangiam
Manager

TESTING
No.0042

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: 2511407
Date Received : Mar 12, 2025
Date Reported : May 15, 2025
Report Number : 3307040-1

Sample Number	2511407-1
Sampled Date	Mar 12, 2025 11:40 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Mar 12, 2025
Condition of Sample	Contained in 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							
COD	mg/L	1.5	25	59	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	278	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	15.5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Note : This Analysis test report is reissued to supersede report No.3262259-1, Date Reported : Mar 25, 2025 due to revise analytical information.

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

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TESTING
No.0042

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: 2511407
Date Received : Mar 12, 2025
Date Reported : May 15, 2025
Report Number : 3307040-1

Sampling By : Narunat thammasaro ทะเบียนเลขที่ ว-323-จ-0052 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

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TESTING
No.0009

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: 2511407
Date Received : Mar 12, 2025
Date Reported : May 15, 2025
Report Number : 3307040-2

Sample Number	2511407-1
Sampled Date	Mar 12, 2025 11:40 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Mar 13, 2025
Condition of Sample	Contained in 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							
Copper	mg/L	0.0003	0.0005	0.53	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Note : This Analysis test report is reissued to supersede report No.3262259-2, Date Reported : Mar 25, 2025 due to revise analytical information.

Sampling By : Narunat thammasaro ทะเบียนเลขที่ ว-323-จ-0052 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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

Technical Management
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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

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

TESTING
No.0009

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: 2511407
Date Received : Mar 12, 2025
Date Reported : May 15, 2025
Report Number : 3307040-3

Sample Number	2511407-1
Sampled Date	Mar 12, 2025 11:40 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Mar 12, 2025
Condition of Sample	Contained in 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	1.30	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	313	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Flow rate *	m3/s	-	-	0.004	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.34	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	5.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	49	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong

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

Approved by
Sawitree Noisangiam
Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

TESTING
No.0009

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: 2511407
Date Received : Mar 12, 2025
Date Reported : May 15, 2025
Report Number : 3307040-3

Sample Number	2511407-1
Sampled Date	Mar 12, 2025 11:40 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Mar 12, 2025
Condition of Sample	Contained in 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							
Total Hardness as CaCO3 *	mg/L	-	1	23	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	4.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Note : This Analysis test report is reissued to supersede report No.3262259-3, Date Reported : Mar 25, 2025 due to revise analytical information.
Sampling By : Narunat thammasaro , Pattarapol Sawangjaitam

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

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Approved by
Sawitree Noisangiam
Manager

TESTING
No.0042

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: 2529387
Date Received : Mar 27, 2025
Date Reported : Apr 03, 2025
Report Number : 3267815-1

Sample Number	2529387-1
Sampled Date	Mar 27, 2025 2:31 PM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Mar 28, 2025
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	10.6	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-0041 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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TESTING
No.0042

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: 2520711
Date Received : Apr 09, 2025
Date Reported : Apr 19, 2025
Report Number : 3285850-1

Sample Number	2520711-1
Sampled Date	Apr 09, 2025 10:48 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Apr 09, 2025
Condition of Sample	Contained in 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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	30	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	31.9	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	232	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	6.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

TESTING
No.0042

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: 2520711
Date Received : Apr 09, 2025
Date Reported : Apr 19, 2025
Report Number : 3285850-1

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti ทะเบียนเลขที่ ว-323-จ-0019 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

Analysis / Test Report

TESTING
No.0009

Client : 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: 2520711
Date Received : Apr 09, 2025
Date Reported : Apr 21, 2025
Report Number : 3285850-2

Sample Number	2520711-1
Sampled Date	Apr 09, 2025 10:48 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Apr 10, 2025
Condition of Sample	Contained in 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							
Copper	mg/L	0.0003	0.0005	0.18	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti ทะเบียนเลขที่ ว-323-จ-0019 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

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

Technical Management
Chanattagarn Imchom
Section Head
ทะเบียนเลขที่ ว-204-จ-0008

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ก-0004

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

Analysis / Test Report

TESTING
No.0009

Client : 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: 2520711
Date Received : Apr 09, 2025
Date Reported : Apr 21, 2025
Report Number : 3285850-3

Sample Number	2520711-1
Sampled Date	Apr 09, 2025 10:48 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Apr 09, 2025
Condition of Sample	Contained in 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	1.70	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	23	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	318	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Flow rate *	m3/s	-	-	0.004	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	5.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	56	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	27	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong

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Approved by
Siriluk Bunnak
Section Head

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: 2520711
Date Received : Apr 09, 2025
Date Reported : Apr 21, 2025
Report Number : 3285850-3

Sample Number	2520711-1
Sampled Date	Apr 09, 2025 10:48 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Apr 09, 2025
Condition of Sample	Contained in 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							
Turbidity *	NTU	-	0.1	4.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti , Thanasoun Namakunna

Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

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Approved by
Siriluk Bunnak
Section Head

Analysis / Test Report

TESTING
No.0042

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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313015-1

Sample Number	2531006-1
Sampled Date	May 14, 2025 11:30 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	May 14, 2025
Condition of Sample	Contained in 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	3.2	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	39	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	29.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	360	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	7.2	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-0001

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

Analysis / Test Report

TESTING
No.0042

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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313015-1

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ว-323-จ-0040 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Photchana S.
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313015-2

Sample Number	2531006-1
Sampled Date	May 14, 2025 11:30 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	May 15, 2025
Condition of Sample	Contained in 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							
Copper	mg/L	0.0003	0.0005	0.69	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ว-323-จ-0040 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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

Technical Management Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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

Analysis / Test Report

TESTING
No.0009

Client : 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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313015-3

Sample Number	2531006-1
Sampled Date	May 14, 2025 11:30 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	May 14, 2025
Condition of Sample	Contained in 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	1.48	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	22	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	519	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	5.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Flow rate *	m3/s	-	-	0.004	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.41	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	4.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	45	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	26	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong

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

Approved by Sawitree N.
Sawitree Noisangiam
Manager

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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313015-3

Sample Number	2531006-1
Sampled Date	May 14, 2025 11:30 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	May 14, 2025
Condition of Sample	Contained in 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							
Turbidity *	NTU	-	0.1	8.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai , Pattarapol Sawangjaitam

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

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Approved by Sawitree N.
Sawitree Noisangiam
Manager

Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : 3100021268
Project Name : Monitoring
Project Location: CUP 4

Lot ID: 2543406
Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338351-1

Sample Number	2543406-1
Sampled Date	Jun 11, 2025 11:10 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Jun 11, 2025
Condition of Sample	Contained in 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	7.6	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	75	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	354	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	10.5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

Analysis / Test Report
TESTING
No.0042
Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : 3100021268
Project Name : Monitoring
Project Location: CUP 4
Lot ID: 2543406
Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338351-1

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ว-323-จ-0040 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028
Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001
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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 : 3100021268
Project Name : Monitoring
Project Location: CUP 4

Lot ID: 2543406
Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338351-2

Sample Number	2543406-1
Sampled Date	Jun 11, 2025 11:10 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Jun 12, 2025
Condition of Sample	Contained in 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							
Copper	mg/L	0.0003	0.0005	1.50	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ว-323-จ-0040 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Sawitree Noisangiam
manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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

Analysis / Test Report
TESTING
No.0009
Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : 3100021268
Project Name : Monitoring
Project Location: CUP 4
Lot ID: 2543406
Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338351-3

Sample Number 2543406-1
Sampled Date Jun 11, 2025 11:10 AM
Sample Description Wastewater
Location Holding pond 320 m3
Date Analysis Commenced Jun 11, 2025
Condition of Sample Contained in 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	1.44	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	31	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	379	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	9.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Flow rate *	m3/s	-	-	0.014	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.31	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	7.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	62	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	60	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong

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Approved by
Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING
No.0009

Lot ID: 2543406

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : 3100021268
Project Name : Monitoring
Project Location : CUP 4

Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338351-3

Sample Number	2543406-1
Sampled Date	Jun 11, 2025 11:10 AM
Sample Description	Wastewater
Location	Holding pond 320 m3
Date Analysis Commenced	Jun 11, 2025
Condition of Sample	Contained in 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							
Turbidity *	NTU	-	0.1	4.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai , Pattarapol Sawangjaitam

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

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Approved by
Sawitree Noisangiam
Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Analysis / Test Report

TESTING
No.0042

Lot ID: 24145283

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

Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215094-1

Sample Number	24145283-2
Sampled Date	Jan 08, 2025 11:04 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Jan 08, 2025
Condition of Sample	Contained in two BOD bottles, 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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	52	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.2	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	608	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Suphanat Sakulkittimasak ทะเบียนเลขที่ ว-323-จ-0021 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

TESTING
No.0042

Lot ID: 24145283

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

Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215094-1

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

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

TESTING
No.0009

Lot ID: 24145283

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

Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215094-2

Sample Number	24145283-2
Sampled Date	Jan 08, 2025 11:04 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Jan 10, 2025
Condition of Sample	Contained in two BOD bottles, 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							
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Suphanat Sakulkittimasak ทะเบียนเลขที่ ว-323-จ-0021 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :
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Technical Management
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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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: 24145283
Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215094-3

Sample Number	24145283-2
Sampled Date	Jan 08, 2025 11:04 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Jan 09, 2025
Condition of Sample	Contained in two BOD bottles, 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, 24th ed., 2023, 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, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Chloroform *	ug/L	0.2	0.5	3.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	3.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	178	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	949	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

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Approved by
Sawitree Noisanglam
Manager

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: 24145283
Date Received : Jan 08, 2025
Date Reported : Jan 21, 2025
Report Number : 3215094-3

Sample Number	24145283-2
Sampled Date	Jan 08, 2025 11:04 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Jan 09, 2025
Condition of Sample	Contained in two BOD bottles, 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							
Nitrate as N *	mg/L	0.015	0.05	1.65	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	52.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	199	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	261	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Suphanat Sakulkittimasak , Pattarapol Sawangjaitam

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Approved by
Sawitree Noisanglam
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 :
Project Name : Monitoring
Project Location: CUP 4

Lot ID: 24145285
Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239457-1

Sample Number	24145285-2
Sampled Date	Feb 11, 2025 11:00 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Feb 11, 2025
Condition of Sample	Contained in one amber glass bottle, two glass vials 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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	30	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.5	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	580	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-0038 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

Analysis / Test Report

TESTING
No.0042

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: 24145285
Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239457-1

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
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

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Life Sciences www.alsglobal.com
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6403-74/ EMAIL S:\Reports\MoRef_All_GL.rpt (4:42PM)

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: 24145285
Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239457-2

Sample Number	24145285-2
Sampled Date	Feb 11, 2025 11:00 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Feb 13, 2025
Condition of Sample	Contained in one amber glass bottle, two glass vials 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							
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-0038 , Pattaraool Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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
Sawitree Noisangjam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ก-0004

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

Analysis / Test Report

TESTING
No.0009

Client : 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: 24145285
Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239457-3

Sample Number	24145285-2
Sampled Date	Feb 11, 2025 11:00 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Feb 11, 2025
Condition of Sample	Contained in one amber glass bottle, two glass vials 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	0.03	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Chloroform *	ug/L	0.2	0.5	3.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	3.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	161	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	880	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

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Approved by
Sawitree Noisangjam
Manager

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: 24145285
Date Received : Feb 11, 2025
Date Reported : Feb 20, 2025
Report Number : 3239457-3

Sample Number	24145285-2
Sampled Date	Feb 11, 2025 11:00 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Feb 11, 2025
Condition of Sample	Contained in one amber glass bottle, two glass vials 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							
Nitrate as N *	mg/L	0.015	0.05	1.85	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	32.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	1	1	172	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	1.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wanlop Hunchainaow , Pattarapol Sawangjaitam

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

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Approved by
Sawitree Noisangjam
Manager

Analysis / Test Report

TESTING
No.0042

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: 2511407
Date Received : Mar 12, 2025
Date Reported : Mar 25, 2025
Report Number : 3262260-1

Sample Number	2511407-2
Sampled Date	Mar 12, 2025 11:35 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Mar 12, 2025
Condition of Sample	Contained in one amber glass bottle and seven 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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	34	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	740	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-0001

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

TESTING
No.0042

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: 2511407
Date Received : Mar 12, 2025
Date Reported : Mar 25, 2025
Report Number : 3262260-1

Sampling By : Narunat thammasaro ทะเบียนเลขที่ ว-323-จ-0052 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Photchana S.
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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TESTING
No.0009

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: 2511407
Date Received : Mar 12, 2025
Date Reported : Mar 25, 2025
Report Number : 3262260-2

Sample Number	2511407-2
Sampled Date	Mar 12, 2025 11:35 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Mar 13, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Narunat thammasaro ทะเบียนเลขที่ ว-323-จ-0052 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management Sawitree N.
Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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

TESTING
No.0009

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: 2511407
Date Received : Mar 12, 2025
Date Reported : Mar 25, 2025
Report Number : 3262260-3

Sample Number	2511407-2
Sampled Date	Mar 12, 2025 11:35 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Mar 12, 2025
Condition of Sample	Contained in one amber glass bottle and seven 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, 24th ed., 2023, 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, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Chloroform *	ug/L	0.2	0.5	1.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	1.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	190	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	1162	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

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Approved by Sawitree N.
Sawitree Noisangiam
Manager

TESTING
No.0009

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: 2511407
Date Received : Mar 12, 2025
Date Reported : Mar 25, 2025
Report Number : 3262260-3

Sample Number	2511407-2
Sampled Date	Mar 12, 2025 11:35 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Mar 12, 2025
Condition of Sample	Contained in one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Nitrate as N *	mg/L	0.015	0.05	0.87	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	36.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	203	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	260	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Narunat thammasaro , Pattarapol Sawangjaitam

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

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Approved by Sawitree N.
Sawitree Noisangiam
Manager

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: 2539043
Date Received : Apr 28, 2025
Date Reported : May 09, 2025
Report Number : 3290462-1 Rev. No.1

Sample Number	2539043-2
Sampled Date	Apr 28, 2025 11:11 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Apr 29, 2025
Condition of Sample	Contained in two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
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, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Chloroform *	ug/L	0.2	0.5	17.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	17.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Note : This Analysis test report is reissued to supersede report No.3290462-1, Date Reported : May 08, 2025 due to revise guideline/specification

Sampling By : Pattarapol Sawangjaitam

Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

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

Approved by
Sawitree Noisangjam
Manager

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

Analysis / Test Report

TESTING
No.0042

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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313016-1

Sample Number	2531006-2
Sampled Date	May 14, 2025 11:05 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	May 14, 2025
Condition of Sample	Contained in two glass vials, one amber glass botte 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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	644	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.2	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ว-323-จ-0040 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

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

Analysis / Test Report

TESTING
No.0042

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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313016-1

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

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313016-2

Sample Number	2531006-2
Sampled Date	May 14, 2025 11:05 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	May 15, 2025
Condition of Sample	Contained in two glass vials, one amber glass botte 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							
Copper	mg/L	0.0003	0.0005	0.005	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ว-323-จ-0040 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Sawitree Noisangjam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-จ-0004

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

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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313016-3

Sample Number 2531006-2
Sampled Date May 14, 2025 11:05 AM
Sample Description Wastewater
Location Holding pond 1800 m3
Date Analysis Commenced May 14, 2025
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, 24th ed., 2023, 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, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Chloroform *	ug/L	0.2	0.5	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	170	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	988	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

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Approved by
Sawitree Noisangiam
Manager

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: 2531006
Date Received : May 14, 2025
Date Reported : May 22, 2025
Report Number : 3313016-3

Sample Number 2531006-2
Sampled Date May 14, 2025 11:05 AM
Sample Description Wastewater
Location Holding pond 1800 m3
Date Analysis Commenced May 14, 2025
Condition of Sample Contained in two glass vials, one amber glass botte 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							
Nitrate as N *	mg/L	0.015	0.05	1.26	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	34.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	220	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai , Pattarapol Sawangjaitam

Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

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Approved by
Sawitree Noisangiam
Manager

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

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : 3100021268
Project Name : Monitoring
Project Location: CUP 4

Lot ID: 2543406
Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338352-1

Sample Number 2543406-2
Sampled Date Jun 11, 2025 10:50 AM
Sample Description Wastewater
Location Holding pond 1800 m3
Date Analysis Commenced Jun 11, 2025
Condition of Sample Contained in one amber glass bottle, two glass vials 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, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	40	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	624	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	<1.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ว-323-จ-0040 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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

Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : 3100021268
Project Name : Monitoring
Project Location: CUP 4

Lot ID: 2543406
Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338352-1

Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-0028

Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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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 : 3100021268
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2543406
Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338352-2

Sample Number	2543406-2
Sampled Date	Jun 11, 2025 10:50 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Jun 12, 2025
Condition of Sample	Contained in one amber glass bottle, two glass vials 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							
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ว-323-จ-0040 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management
Sawitree Noisangjam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ก-0004

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

Analysis / Test Report

TESTING
No.0009

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : 3100021268
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2543406
Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338352-3

Sample Number	2543406-2
Sampled Date	Jun 11, 2025 10:50 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Jun 11, 2025
Condition of Sample	Contained in one amber glass bottle, two glass vials 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, 24th ed., 2023, 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, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Chloroform *	ug/L	0.2	0.5	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 6200 B	Bangkok
Total Trihalomethanes *	ug/L	0.2	1	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6200 B	Bangkok
Water Testing							
Calcium Hardness as CaCO3 *	mg/L	-	1	201	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Ca (B)	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	942	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong

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Approved by
Sawitree Noisangjam
Manager

Analysis / Test Report

TESTING
No.0009

Client : Global Power Synergy Public Company Limited
1/2 Moo 2, Banchang, Banchang, Rayong 21130
P/O : 3100021268
Project Name : Monitoring
Project Location : CUP 4

Lot ID: 2543406
Date Received : Jun 11, 2025
Date Reported : Jun 19, 2025
Report Number : 3338352-3

Sample Number	2543406-2
Sampled Date	Jun 11, 2025 10:50 AM
Sample Description	Wastewater
Location	Holding pond 1800 m3
Date Analysis Commenced	Jun 11, 2025
Condition of Sample	Contained in one amber glass bottle, two glass vials 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							
Nitrate as N *	mg/L	0.015	0.05	1.49	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Silica as SiO2 *	mg/L	0.2	0.5	61.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SiO2 (C)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	247	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Rayong
Total Hardness as CaCO3 *	mg/L	-	1	291	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Rayong
Turbidity *	NTU	-	0.1	0.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Amonwich Wongsachai , Pattarapol Sawangjaitam

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

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Approved by
Sawitree Noisangjam
Manager

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: 2511758
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3227728-1

Sample Number	2511758-1
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Mar 26, 2025
Measurement by	Amnat Wongsakhen
Location	ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
GTG	120	29.5	27.6	34.2	33.4
Average (WBGT)		29.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:
1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environmentin relation to Heat,Light and Noise, B.E.2559

Technical Management
Supot Salamteh
Section Head

Approved by
Wichan Choonharat
Assistant Manager

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: 2511758
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3227728-1

Sample Number 2511758-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Mar 26, 2025
Measurement by Amnat Wongsakhen
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
HRSG	120	28.4	26.7	32.7	32.0
Average (WBGT)		28.4			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:
1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environmentin relation to Heat,Light and Noise, B.E.2559

Technical Management
Supot Salamteh
Section Head

Approved by
Wichan Choonharat
Assistant Manager

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: 2512033
Date Received : Mar 28, 2025
Date Reported : Apr 01, 2025
Report Number : 3228573-1

Sample Number 2512033-1
Sampled Date Mar 28, 2025
Sample Description Noise dose
Location FO#1 (Day)
Personal Sampling
Date Analysis Commenced Mar 29, 2025

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	%	-	1	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 AM - 07:30 PM	%	-	1	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:30 PM	dB(A)	-	-	60.9	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 AM - 07:30 PM	dB(A)	-	-	62.7	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

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 Stancard 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 : Amnat Wongsakhen

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

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Approved by
Supot Salamteh
Section Head

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: 2512033
Date Received : Mar 28, 2025
Date Reported : Apr 01, 2025
Report Number : 3228573-1

Sample Number 2512033-2
Sampled Date Mar 25, 2025
Sample Description Noise dose
Location FO#1 (Night)
Personal Sampling
Date Analysis Commenced Mar 29, 2025

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	33.9	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 PM - 07:30 AM	%	-	1	31.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 PM - 07:30 AM	dB(A)	-	-	78.3	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 PM - 07:30 AM	dB(A)	-	-	80.0	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

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 : Amnat Wongsakhen

Remark :
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Approved by
Supot Salamteh
Section Head

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: 2512033
Date Received : Mar 28, 2025
Date Reported : Apr 01, 2025
Report Number : 3228573-1

Sample Number 2512033-3
Sampled Date Mar 25, 2025
Sample Description Noise dose
Location FO#2 (Day)
Personal Sampling
Date Analysis Commenced Mar 29, 2025

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	%	-	1	13.8	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	08:00 AM - 08:00 PM	%	-	1	13.2	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	08:00 AM - 08:00 PM	dB(A)	-	-	74.4	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	08:00 AM - 08:00 PM	dB(A)	-	-	76.2	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

Guideline :
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2. Notification of Department of Labour Protection and Welfare on the Stancard 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 : Amnat Wongsakhen

Remark :
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Supot Salamteh
Section Head

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: 2512033
Date Received : Mar 28, 2025
Date Reported : Apr 01, 2025
Report Number : 3228573-1

Sample Number 2512033-4
Sampled Date Mar 25, 2025
Sample Description Noise dose
Location FO#2 (Night)
Personal Sampling
Date Analysis Commenced Mar 29, 2025

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	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 PM - 07:30 AM	%	-	1	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 PM - 07:30 AM	dB(A)	-	-	53.8	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 PM - 07:30 AM	dB(A)	-	-	55.6	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

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 : Amnat Wongsakhen

Remark :
- LOD : Limit of Detection
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Supot Salamteh
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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: 2512033
Date Received : Mar 28, 2025
Date Reported : Apr 01, 2025
Report Number : 3228573-1

Sample Number 2512033-5
Sampled Date Mar 28, 2025
Sample Description Noise dose
Location CO#1 (Day)
Personal Sampling
Date Analysis Commenced Mar 29, 2025

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 - 07:00 PM	%	-	1	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 AM - 07:00 PM	%	-	1	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 AM - 07:00 PM	dB(A)	-	-	58.8	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 AM - 07:00 PM	dB(A)	-	-	60.6	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

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 Stancard 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 : Amnat Wongsakhen

Remark :
- LOD : Limit of Detection
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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: 2512033
Date Received : Mar 28, 2025
Date Reported : Apr 01, 2025
Report Number : 3228573-1

Sample Number 2512033-6
Sampled Date Mar 25, 2025
Sample Description Noise dose
Location CO#1 (Night)
Personal Sampling
Date Analysis Commenced Mar 29, 2025

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	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
Noise Dose (8 hrs.)	07:30 PM - 07:30 AM	%	-	1	<1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (12 hrs.) (Calculated from Lavg)	07:30 PM - 07:30 AM	dB(A)	-	-	38.1	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong
TWA (8 hrs.)	07:30 PM - 07:30 AM	dB(A)	-	-	39.8	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Rayong

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 : Amnat Wongsakhen

Remark :
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