

ภาคผนวก ค

ใบรับรองผลการวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413483

Date Received : Feb 19, 2024
Date Reported : Feb 23, 2024
Report Number: 2918136-1

Page 1 of 1

Sample Description Air Quality
Location วัดมาบชลด
Parameter Nitrogen dioxide (ppm)
Measurement Date Feb 09, 2024 - Feb 16, 2024
Measurement by Norranon Tathongkham

| | 2413483-8 Feb 09, 2024 | 2413483-9 Feb 10, 2024 | 2413483-10 Feb 11, 2024 | 2413483-11 Feb 12, 2024 | 2413483-12 Feb 13, 2024 | 2413483-13 Feb 14, 2024 | 2413483-14 Feb 15, 2024 |
|------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Time | | | | | | | |
| 01:00 PM - 02:00 PM | 0.004 | 0.006 | 0.005 | 0.007 | 0.009 | 0.009 | 0.012 |
| 02:00 PM - 03:00 PM | 0.004 | 0.008 | 0.007 | 0.006 | 0.004 | 0.010 | 0.013 |
| 03:00 PM - 04:00 PM | 0.004 | 0.004 | 0.006 | 0.007 | 0.012 | 0.009 | 0.007 |
| 04:00 PM - 05:00 PM | 0.004 | 0.005 | 0.012 | 0.010 | 0.010 | 0.008 | 0.004 |
| 05:00 PM - 06:00 PM | 0.004 | 0.010 | 0.005 | 0.008 | 0.011 | 0.005 | 0.004 |
| 06:00 PM - 07:00 PM | 0.003 | 0.005 | 0.005 | 0.009 | 0.008 | 0.005 | 0.004 |
| 07:00 PM - 08:00 PM | 0.003 | 0.006 | 0.006 | 0.012 | 0.012 | 0.005 | 0.004 |
| 08:00 PM - 09:00 PM | 0.004 | 0.011 | 0.009 | 0.004 | 0.004 | 0.005 | 0.003 |
| 09:00 PM - 10:00 PM | 0.003 | 0.005 | 0.005 | 0.004 | 0.010 | 0.006 | 0.003 |
| 10:00 PM - 11:00 PM | 0.003 | 0.005 | 0.006 | 0.004 | 0.009 | 0.010 | 0.004 |
| 11:00 PM - 12:00 AM | 0.003 | 0.010 | 0.005 | 0.004 | 0.005 | 0.006 | 0.003 |
| 12:00 AM - 01:00 AM | 0.003 | 0.005 | 0.005 | 0.004 | 0.006 | 0.004 | 0.003 |
| 01:00 AM - 02:00 AM | 0.008 | 0.005 | 0.006 | 0.004 | 0.005 | 0.004 | 0.003 |
| 02:00 AM - 03:00 AM | 0.005 | 0.005 | 0.003 | 0.003 | 0.008 | 0.009 | 0.003 |
| 03:00 AM - 04:00 AM | 0.008 | 0.004 | 0.003 | 0.006 | 0.005 | 0.004 | 0.003 |
| 04:00 AM - 05:00 AM | 0.006 | 0.008 | 0.003 | 0.003 | 0.003 | 0.008 | 0.004 |
| 05:00 AM - 06:00 AM | 0.005 | 0.006 | 0.002 | 0.005 | 0.007 | 0.004 | 0.004 |
| 06:00 AM - 07:00 AM | 0.003 | 0.008 | 0.004 | 0.005 | 0.005 | 0.005 | 0.004 |
| 07:00 AM - 08:00 AM | 0.002 | 0.008 | 0.006 | 0.005 | 0.007 | 0.004 | 0.005 |
| 08:00 AM - 09:00 AM | 0.005 | 0.005 | 0.004 | 0.005 | 0.005 | 0.005 | 0.010 |
| 09:00 AM - 10:00 AM | 0.006 | 0.008 | 0.004 | 0.004 | 0.006 | 0.007 | 0.010 |
| 10:00 AM - 11:00 AM | 0.010 | 0.006 | 0.004 | 0.011 | 0.004 | 0.005 | 0.004 |
| 11:00 AM - 12:00 PM | 0.005 | 0.007 | 0.004 | 0.009 | 0.004 | 0.004 | 0.004 |
| 12:00 PM - 01:00 PM | 0.006 | 0.006 | 0.008 | 0.009 | 0.004 | 0.006 | 0.005 |
| Average | 0.005 | 0.007 | 0.005 | 0.006 | 0.007 | 0.006 | 0.005 |
| 1hr - Maximum | 0.010 | 0.011 | 0.012 | 0.012 | 0.012 | 0.010 | 0.013 |
| 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)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413483

Date Received : Feb 19, 2024
Date Reported : Feb 23, 2024
Report Number: 2901425-1

Page 1 of 1

Sample Description Air Quality
Location วัดหนองแฟบ
Parameter Nitrogen dioxide (ppm)
Measurement Date Feb 09, 2024 - Feb 16, 2024
Measurement by Norranon Tathongkham

| | 2413483-1 Feb 09, 2024 | 2413483-2 Feb 10, 2024 | 2413483-3 Feb 11, 2024 | 2413483-4 Feb 12, 2024 | 2413483-5 Feb 13, 2024 | 2413483-6 Feb 14, 2024 | 2413483-7 Feb 15, 2024 |
|------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Time | | | | | | | |
| 10:00 AM - 11:00 AM | 0.002 | 0.002 | 0.005 | 0.012 | 0.012 | 0.009 | 0.008 |
| 11:00 AM - 12:00 PM | 0.001 | 0.002 | 0.007 | 0.011 | 0.012 | 0.009 | 0.004 |
| 12:00 PM - 01:00 PM | 0.001 | 0.002 | 0.007 | 0.008 | 0.011 | 0.006 | 0.003 |
| 01:00 PM - 02:00 PM | 0.002 | 0.002 | 0.006 | 0.010 | 0.013 | 0.006 | 0.003 |
| 02:00 PM - 03:00 PM | 0.001 | 0.003 | 0.006 | 0.011 | 0.007 | 0.006 | 0.002 |
| 03:00 PM - 04:00 PM | 0.001 | 0.009 | 0.004 | 0.010 | 0.006 | 0.005 | 0.002 |
| 04:00 PM - 05:00 PM | 0.001 | 0.011 | 0.003 | 0.006 | 0.006 | 0.004 | 0.002 |
| 05:00 PM - 06:00 PM | 0.001 | 0.007 | 0.002 | 0.004 | 0.005 | 0.003 | 0.002 |
| 06:00 PM - 07:00 PM | 0.002 | 0.004 | 0.003 | 0.005 | 0.005 | 0.006 | 0.003 |
| 07:00 PM - 08:00 PM | 0.002 | 0.004 | 0.003 | 0.006 | 0.006 | 0.006 | 0.004 |
| 08:00 PM - 09:00 PM | 0.002 | 0.003 | 0.004 | 0.010 | 0.006 | 0.005 | 0.004 |
| 09:00 PM - 10:00 PM | 0.001 | 0.003 | 0.005 | 0.010 | 0.010 | 0.004 | 0.003 |
| 10:00 PM - 11:00 PM | <0.001 | 0.004 | 0.004 | 0.010 | 0.011 | 0.004 | 0.003 |
| 11:00 PM - 12:00 AM | <0.001 | 0.004 | 0.004 | 0.011 | 0.012 | 0.003 | 0.002 |
| 12:00 AM - 01:00 AM | <0.001 | 0.007 | 0.005 | 0.008 | 0.009 | 0.003 | 0.001 |
| 01:00 AM - 02:00 AM | <0.001 | 0.010 | 0.005 | 0.008 | 0.012 | 0.003 | 0.001 |
| 02:00 AM - 03:00 AM | <0.001 | 0.007 | 0.005 | 0.008 | 0.013 | 0.003 | 0.001 |
| 03:00 AM - 04:00 AM | <0.001 | 0.005 | 0.004 | 0.011 | 0.011 | 0.002 | <0.001 |
| 04:00 AM - 05:00 AM | <0.001 | 0.007 | 0.004 | 0.009 | 0.009 | 0.004 | <0.001 |
| 05:00 AM - 06:00 AM | <0.001 | 0.004 | 0.004 | 0.012 | 0.009 | 0.003 | <0.001 |
| 06:00 AM - 07:00 AM | <0.001 | 0.003 | 0.004 | 0.010 | 0.010 | 0.003 | 0.001 |
| 07:00 AM - 08:00 AM | <0.001 | 0.003 | 0.007 | 0.008 | 0.010 | 0.003 | 0.001 |
| 08:00 AM - 09:00 AM | <0.001 | 0.004 | 0.013 | 0.009 | 0.013 | 0.005 | 0.004 |
| 09:00 AM - 10:00 AM | 0.002 | 0.004 | 0.010 | 0.012 | 0.008 | 0.008 | 0.008 |
| Average | 0.001 | 0.005 | 0.005 | 0.009 | 0.010 | 0.005 | 0.003 |
| 1hr - Maximum | 0.002 | 0.011 | 0.013 | 0.012 | 0.013 | 0.009 | 0.008 |
| 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)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413484

Date Received : Feb 19, 2024
Date Reported : Feb 24, 2024
Report Number: 2901447-1

Page 1 of 1

Sample Description Air Quality
Location วัดหนองแฟบ
Date Analysis Commenced Feb 20, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag

| Sample Number | Sampled Date | Total Suspended Particulate (mg/m ³) | Barometric Pressure (mm Hg) | Atmospheric Temperature (°C) |
|------------------|-----------------------|---|--------------------------------|---------------------------------|
| 2413484-1 | Feb 09 - Feb 10, 2024 | 0.041 | 756 | 30 |
| 2413484-2 | Feb 10 - Feb 11, 2024 | 0.054 | 756 | 30 |
| 2413484-3 | Feb 11 - Feb 12, 2024 | 0.078 | 756 | 31 |
| 2413484-4 | Feb 12 - Feb 13, 2024 | 0.100 | 756 | 31 |
| 2413484-5 | Feb 13 - Feb 14, 2024 | 0.124 | 756 | 31 |
| 2413484-6 | Feb 14 - Feb 15, 2024 | 0.083 | 756 | 31 |
| 2413484-7 | Feb 15 - Feb 16, 2024 | 0.051 | 756 | 30 |
| Guideline | | 0.33 | - | - |

Reference Method

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

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

Sampled By : Norranon Tathongkham

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413484

Date Received : Feb 19, 2024
Date Reported : Feb 24, 2024
Report Number: 2901447-2

Page 1 of 1

Sample Description Air Quality
Location วัดมาบชลูด
Date Analysis Commenced Feb 20, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag

| Sample Number | Sampled Date | Total Suspended Particulate (mg/m ³) | Barometric Pressure (mm Hg) | Atmospheric Temperature (°C) |
|------------------|-----------------------|---|--------------------------------|---------------------------------|
| 2413484-8 | Feb 09 - Feb 10, 2024 | 0.070 | 756 | 30 |
| 2413484-9 | Feb 10 - Feb 11, 2024 | 0.087 | 756 | 30 |
| 2413484-10 | Feb 11 - Feb 12, 2024 | 0.123 | 756 | 31 |
| 2413484-11 | Feb 12 - Feb 13, 2024 | 0.137 | 756 | 31 |
| 2413484-12 | Feb 13 - Feb 14, 2024 | 0.180 | 756 | 31 |
| 2413484-13 | Feb 14 - Feb 15, 2024 | 0.146 | 756 | 31 |
| 2413484-14 | Feb 15 - Feb 16, 2024 | 0.113 | 756 | 30 |
| Guideline | | 0.33 | - | - |

Reference Method

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

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

Sampled By : Norranon Tathongkham

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413487
Date Received :Feb 19, 2024
Date Reported :Feb 22, 2024
Report Number :2901450-1

Page 1 of 2

Sample Number : 2413487-1 to 7
Parameter : Wind Speed / Wind Direction
Location : วัดหนองแฟบ
Sampling Date : Feb 09 - Feb 16, 2024
Sampling by : Norranon Tathongkham

| Time | Feb 09 - Feb 10, 2024 | | | Feb 10 - Feb 11, 2024 | | | Feb 11 - Feb 12, 2024 | | | Feb 12 - Feb 13, 2024 | | | Feb 13 - Feb 14, 2024 | | | Feb 14 - Feb 15, 2024 | | | Feb 15 - Feb 16, 2024 | | |
|---------------------|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|
| | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | | WS (m/s) | WD (deg) | |
| 10:00 AM - 11:00 AM | 0.9 | 273.0 | W | 0.8 | 234.0 | SW | 1.6 | 192.0 | SSW | 0.7 | 151.0 | SSE | 1.8 | 271.0 | W | 1.1 | 319.0 | NW | 1.3 | 198.0 | SSW |
| 11:00 AM - 12:00 PM | 0.6 | 228.0 | SW | 1.6 | 269.0 | W | 0.5 | 253.0 | WSW | 1.4 | 124.0 | SE | 1.7 | 244.0 | WSW | 1.2 | 338.0 | NNW | 1.5 | 216.0 | SW |
| 12:00 PM - 01:00 PM | 1.2 | 200.0 | SSW | 0.8 | 226.0 | SW | 0.8 | 196.0 | SSW | 1.6 | 135.0 | SE | 1.2 | 255.0 | WSW | 0.9 | 255.0 | WSW | 1.2 | 202.0 | SSW |
| 01:00 PM - 02:00 PM | 1.7 | 195.0 | SSW | 1.0 | 240.0 | WSW | 1.5 | 193.0 | SSW | 1.1 | 134.0 | SE | 1.5 | 254.0 | WSW | 1.4 | 309.0 | NW | 1.2 | 204.0 | SSW |
| 02:00 PM - 03:00 PM | 1.3 | 210.0 | SSW | 0.6 | 255.0 | WSW | 1.3 | 210.0 | SSW | 1.2 | 141.0 | SE | 0.9 | 261.0 | W | 1.1 | 314.0 | NW | 0.9 | 250.0 | WSW |
| 03:00 PM - 04:00 PM | 0.8 | 211.0 | SSW | 1.0 | 239.0 | WSW | 1.0 | 207.0 | SSW | 1.4 | 87.0 | E | 1.0 | 207.0 | SSW | 1.1 | 307.0 | NW | 2.0 | 213.0 | SSW |
| 04:00 PM - 05:00 PM | 0.9 | 197.0 | SSW | 0.7 | 248.0 | WSW | 0.6 | 250.0 | WSW | 1.2 | 172.0 | S | 0.5 | 292.0 | WNW | 1.3 | 317.0 | NW | 2.9 | 213.0 | SSW |
| 05:00 PM - 06:00 PM | 1.1 | 227.0 | SW | 0.5 | 242.0 | WSW | 0.5 | 254.0 | WSW | 2.3 | 131.0 | SE | 0.7 | 251.0 | WSW | 0.8 | 324.0 | NW | 1.0 | 228.0 | SW |
| 06:00 PM - 07:00 PM | 2.2 | 237.0 | WSW | 0.8 | 195.0 | SSW | 1.1 | 233.0 | SW | 0.7 | 128.0 | SE | 0.7 | 248.0 | WSW | 0.6 | 314.0 | NW | 0.8 | 211.0 | SSW |
| 07:00 PM - 08:00 PM | 1.0 | 220.0 | SW | 0.2 | - | - | 1.5 | 249.0 | WSW | 1.0 | 83.0 | E | 1.2 | 203.0 | SSW | 1.7 | 311.0 | NW | 0.5 | 209.0 | SSW |
| 08:00 PM - 09:00 PM | 1.8 | 210.0 | SSW | 0.1 | - | - | 1.7 | 297.0 | WNW | 0.7 | 176.0 | S | 0.5 | 296.0 | WNW | 1.3 | 302.0 | WNW | 1.4 | 196.0 | SSW |
| 09:00 PM - 10:00 PM | 0.8 | 215.0 | SW | 0.5 | 188.0 | S | 1.6 | 243.0 | WSW | 1.5 | 156.0 | SSE | 0.3 | 276.0 | W | 0.5 | 249.0 | WSW | 1.1 | 213.0 | SSW |
| 10:00 PM - 11:00 PM | 1.3 | 209.0 | SSW | 0.8 | 199.0 | SSW | 2.0 | 240.0 | WSW | 1.0 | 82.0 | E | 0.9 | 202.0 | SSW | 0.4 | 261.0 | W | 1.9 | 193.0 | SSW |
| 11:00 PM - 12:00 AM | 1.7 | 224.0 | SW | 0.2 | - | - | 2.4 | 244.0 | WSW | 0.6 | 94.0 | E | 0.7 | 199.0 | SSW | 0.7 | 234.0 | SW | 1.7 | 194.0 | SSW |
| 12:00 AM - 01:00 AM | 1.3 | 217.0 | SW | 0.2 | - | - | 1.5 | 261.0 | W | 1.0 | 111.0 | ESE | 0.6 | 199.0 | SSW | 0.6 | 253.0 | WSW | 1.0 | 192.0 | SSW |
| 01:00 AM - 02:00 AM | 1.3 | 227.0 | SW | 0.5 | 204.0 | SSW | 0.7 | 242.0 | WSW | 1.6 | 92.0 | E | 0.2 | - | - | 0.6 | 238.0 | WSW | 1.0 | 194.0 | SSW |
| 02:00 AM - 03:00 AM | 0.9 | 250.0 | WSW | 0.4 | 189.0 | S | 0.5 | 241.0 | WSW | 2.0 | 91.0 | E | 0.4 | 203.0 | SSW | 0.1 | - | - | 1.1 | 194.0 | SSW |
| 03:00 AM - 04:00 AM | 1.4 | 300.0 | WNW | 0.2 | - | - | 1.0 | 220.0 | SW | 0.6 | 70.0 | ENE | 1.1 | 181.0 | S | 0.5 | 191.0 | S | 1.0 | 195.0 | SSW |
| 04:00 AM - 05:00 AM | 1.3 | 214.0 | SW | 0.2 | - | - | 1.0 | 227.0 | SW | 1.0 | 77.0 | ENE | 0.2 | - | - | 0.3 | 224.0 | SW | 0.7 | 144.0 | SE |
| 05:00 AM - 06:00 AM | 2.2 | 226.0 | SW | 1.3 | 201.0 | SSW | 1.4 | 215.0 | SW | 1.5 | 65.0 | ENE | 0.2 | - | - | 0.6 | 210.0 | SSW | 0.9 | 168.0 | SSE |
| 06:00 AM - 07:00 AM | 1.7 | 228.0 | SW | 0.2 | - | - | 1.4 | 239.0 | WSW | 1.4 | 89.0 | E | 0.9 | 254.0 | WSW | 1.0 | 202.0 | SSW | 0.8 | 221.0 | SW |
| 07:00 AM - 08:00 AM | 2.0 | 197.0 | SSW | 0.5 | 194.0 | SSW | 1.1 | 250.0 | WSW | 1.1 | 100.0 | E | 0.7 | 292.0 | WNW | 0.8 | 279.0 | W | 0.7 | 161.0 | SSE |
| 08:00 AM - 09:00 AM | 1.8 | 211.0 | SSW | 0.2 | - | - | 1.2 | 256.0 | WSW | 1.5 | 226.0 | SW | 1.2 | 246.0 | WSW | 1.4 | 206.0 | SSW | 1.2 | 141.0 | SE |
| 09:00 AM - 10:00 AM | 2.1 | 219.0 | SW | 0.5 | 231.0 | SW | 1.2 | 91.0 | E | 1.9 | 211.0 | SSW | 1.1 | 269.0 | W | 1.2 | 204.0 | SSW | 0.6 | 153.0 | SSE |

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by

Sarayuth Jittranont
Assistant General Manager



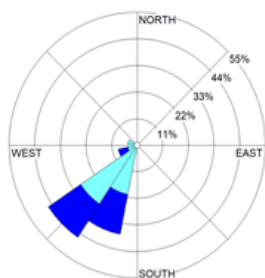
Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

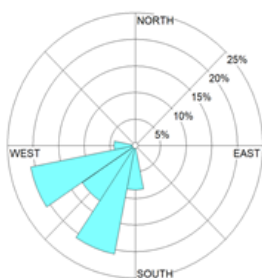
Lot ID: 2413487
Date Received :Feb 19, 2024
Date Reported :Feb 22, 2024
Report Number :2901450-1

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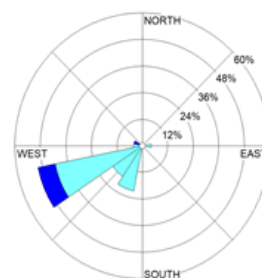
Wind Rose



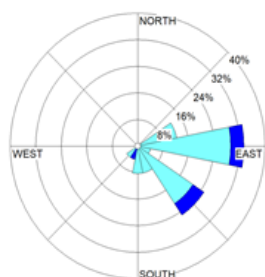
Date : Feb 09-10, 2024



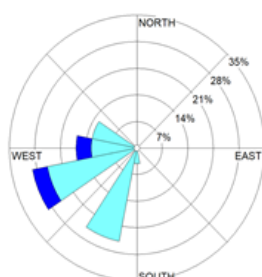
Date : Feb 10-11, 2024



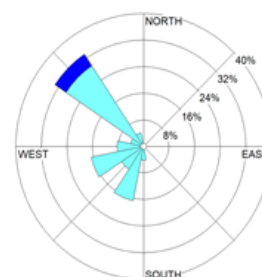
Date : Feb 11-12, 2024



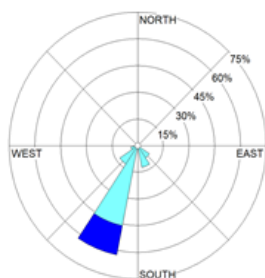
Date : Feb 12-13, 2024



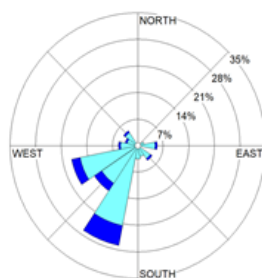
Date : Feb 13-14, 2024



Date : Feb 14-15, 2024



Date : Feb 15-16, 2024



Date : Feb 09-16, 2024

| WS(m/s) | % |
|----------|-------|
| ≥ 10.0 | 0.00 |
| 8.0-10.0 | 0.00 |
| 5.5-8.0 | 0.00 |
| 3.3-5.5 | 0.00 |
| 1.7-3.3 | 13.10 |
| 0.3-1.7 | 79.76 |
| Calms | 7.14 |

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Approved by

Sarayuth Jittrantont
Assistant General Manager

ภาคผนวก ค-2

คุณภาพอากาศจากแหล่งกำเนิด



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413433
Date Received :Feb 15, 2024
Date Reported :Feb 27, 2024
Report Number :2901341-1

Page 1 of 1

Sample Number 2413433-1
Sample Description Emission from Stationary Source
Location Auxiliary Boiler (GPS 47P 0730869, 1405098)
Measurement Date Feb 14, 2024

Stack Description

| | | | | | |
|---------------------|-------------|-------------------|---------|----------------|--------------|
| Ambient Temperature | 32 °C | Diameter | 1.80 m | Oxygen | 8.08 % |
| Ambient Pressure | 760 mmHg | Shape | Circle | Carbon dioxide | 7.40 % |
| Type of Process | Combustion | Stack Temperature | 156 °C | Gas Velocity | 5.95 m/s |
| Type of Fuel | Natural Gas | Moisture | 11.43 % | Flow Rate | 33538 Nm3/hr |

| Run No. | Sampling Time | Oxygen (%) | Carbon Dioxide (%) | Oxides of Nitrogen (ppm) | |
|--|---------------------|------------|--------------------|--------------------------|----------------------|
| | | | | at Actual O ₂ | At 7% O ₂ |
| 1 | 12:40 PM - 01:00 PM | 8.09 | 7.40 | 36.36 | 39.47 |
| 2 | 01:01 PM - 01:21 PM | 8.07 | 7.40 | 36.87 | 39.94 |
| 3 | 01:22 PM - 01:42 PM | 8.08 | 7.39 | 37.18 | 40.31 |
| Average (ppm) | | 8.08 | 7.40 | 36.80 | 39.91 |
| Guideline ^{1/} (ppm) | | | | - | 53 |
| Guideline ^{2/} (ppm) | | | | - | 120 |
| Guideline ^{3/} (ppm) | | | | - | 120 |
| Result (mg/Nm ³) | | | | 69.24 | 75.08 |
| Emission Rate at Actual O ₂ (g/s) | | | | 0.6450 | |
| Guideline ^{1/} (g/s) | | | | 2.10 | |
| Method | | | | US EPA Method 7E | |

Sampled By : Sathapron Thakarw

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

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

^{3/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ค-6113

Approved by

Sarayuth Jittrantont
Assistant General Manager
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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413438

Date Received : Feb 14, 2024

Date Reported : Feb 22, 2024

Report Number: 2901346-1

Page 1 of 2

Sample Number 2413438-1
Sampled Date Feb 14, 2024
Sample Description Emission from Stationary Source
Location Auxiliary Boiler (GPS 47P 0730869, 1405098)
Date Analysis Commenced Feb 15, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|-------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 1.80 | m | Oxygen | 8.1 | % |
| Ambient Temperature | 32.0 | °C | Shape | Circle | | Carbon Dioxide | 7.4 | % |
| Type of Process | Combustion | | Stack Temperature | 156 | °C | Gas Velocity | 5.8 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 11.40 | % | Flow Rate (Actual O2) | 32782 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result | | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|----------------------|-------------------------|---------------|---------------|---|------------------|
| | | | | | at 7 %O ₂ | at 8.1 % O ₂ | | | | |
| Air Testing | | | | | | | | | | |
| Total Suspended Particulate | 12:40 PM - 01:28 PM | mg/m3 | - | 0.5 | <0.5 | <0.5 | 60 | 1.20 | United States Environmental Protection Agency, EPA Method 5 | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Chamon.

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

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413438

Date Received : Feb 14, 2024

Date Reported : Feb 22, 2024

Report Number: 2901346-1

Page 2 of 2

Sample Number 2413438-1
Sampled Date Feb 14, 2024
Sample Description Emission from Stationary Source
Location Auxiliary Boiler (GPS 47P 0730869, 1405098)
Date Analysis Commenced Feb 15, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|-------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 1.80 | m | Oxygen | 8.1 | % |
| Ambient Temperature | 32.0 | °C | Shape | Circle | | Carbon Dioxide | 7.4 | % |
| Type of Process | Combustion | | Stack Temperature | 156 | °C | Gas Velocity | 5.8 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 11.40 | % | Flow Rate (Actual O2) | 32782 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result Emission Rate | Guideline (1) | Guideline (2) | Method | Testing Location |
|-------------------------------|---------------------|------|-----|-----------|----------------------|---------------|---------------|------------|------------------|
| Air Testing | | | | | | | | | |
| Total Suspended Particulate * | 12:40 PM - 01:28 PM | g/s | - | - | <0.005 | - | 0.019 | Calculated | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Sampled By : Tinnakorn Kulchart , Sathapron Thakarw

Remark :

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Chamon.

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

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413409
Date Received :Feb 12, 2024
Date Reported :Feb 15, 2024
Report Number :2901325-1

Page 1 of 1

Sample Number : 2413409-1
Sample Description : Emission from Stationary Source
Location : HRSG #1
Measurement Date : Feb 12, 2024

Stack Description

| | | | | | |
|---------------------|-------------|-------------------|--------|----------------|----------------------------|
| Ambient Temperature | 31 °C | Diameter | 3.30 m | Oxygen | 14.14 % |
| Ambient Pressure | 760 mmHg | Shape | Circle | Carbon dioxide | 3.73 % |
| Type of Process | Combustion | Stack Temperature | 153 °C | Gas Velocity | 20.52 m/s |
| Type of Fuel | Natural Gas | Moisture | 7.78 % | Flow Rate | 407254 Nm ³ /hr |

| Run No. | Sampling Time | Oxygen (%) | Carbon Dioxide (%) | Oxides of Nitrogen (ppm) | |
|--|---------------------|------------|--------------------|--------------------------|----------------------|
| | | | | at Actual O ₂ | At 7% O ₂ |
| 1 | 10:40 AM - 11:00 AM | 14.15 | 3.72 | 7.71 | 15.88 |
| 2 | 11:01 AM - 11:21 AM | 14.14 | 3.73 | 7.82 | 16.07 |
| 3 | 11:22 AM - 11:42 AM | 14.12 | 3.74 | 7.84 | 16.09 |
| Average (ppm) | | 14.14 | 3.73 | 7.79 | 16.01 |
| Guideline ^{1/} (ppm) | | | | - | 35 |
| Guideline ^{2/} (ppm) | | | | - | 120 |
| Guideline ^{3/} (ppm) | | | | - | 120 |
| Result (mg/Nm ³) | | | | 14.66 | 30.13 |
| Emission Rate at Actual O ₂ (g/s) | | | | 1.6579 | |
| Guideline ^{1/} (g/s) | | | | 3.55 | |
| Method | | | | US EPA Method 7E | |

Sampled By : Kantaphon Maneesampan

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

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

^{3/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

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Approved by

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413423

Date Received : Feb 12, 2024

Date Reported : Feb 20, 2024

Report Number: 2901330-1

Page 1 of 2

Sample Number 2413423-1
Sampled Date Feb 12, 2024
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Feb 12, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 14.1 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.7 | % |
| Type of Process | Combustion | | Stack Temperature | 153 | °C | Gas Velocity | 20.5 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 7.64 | % | Flow Rate (Actual O2) | 408257 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result at 7 %O ₂ | Result at 14.1 % O ₂ | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|-----------------------------|---------------------------------|---------------|---------------|---|------------------|
| Air Testing | | | | | | | | | | |
| Total Suspended Particulate | 10:40 AM - 11:28 AM | mg/m3 | - | 0.5 | <0.5 | <0.5 | 60 | 3.20 | United States Environmental Protection Agency, EPA Method 5 | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Technical Management

Thanita K.

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Approved by

D. Chamon.

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

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413423

Date Received : Feb 12, 2024

Date Reported : Feb 20, 2024

Report Number: 2901330-1

Page 2 of 2

Sample Number 2413423-1
Sampled Date Feb 12, 2024
Sample Description Emission from Stationary Source
Location HRSG #1
Date Analysis Commenced Feb 12, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 14.1 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.7 | % |
| Type of Process | Combustion | | Stack Temperature | 153 | °C | Gas Velocity | 20.5 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 7.64 | % | Flow Rate (Actual O2) | 408257 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result Emission Rate | Guideline (1) | Guideline (2) | Method | Testing Location |
|-------------------------------|---------------------|------|-----|-----------|----------------------|---------------|---------------|------------|------------------|
| Air Testing | | | | | | | | | |
| Total Suspended Particulate * | 10:40 AM - 11:28 AM | g/s | - | - | <0.057 | - | 0.40 | Calculated | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Sampled By : Santi Chaichana , Warawut Pubpa

Remark :

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

Technical Management

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Approved by

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413432
Date Received :Feb 12, 2024
Date Reported :Feb 15, 2024
Report Number :2901339-1

Page 1 of 1

Sample Number 2413432-1
Sample Description Emission from Stationary Source
Location HRSG #2 (GPS 47P 0730833, 1405040)
Measurement Date Feb 12, 2024

Stack Description

| | | | | | |
|---------------------|-------------|-------------------|--------|----------------|----------------------------|
| Ambient Temperature | 31 °C | Diameter | 3.30 m | Oxygen | 14.63 % |
| Ambient Pressure | 760 mmHg | Shape | Circle | Carbon dioxide | 3.63 % |
| Type of Process | Combustion | Stack Temperature | 156 °C | Gas Velocity | 19.86 m/s |
| Type of Fuel | Natural Gas | Moisture | 9.74 % | Flow Rate | 382988 Nm ³ /hr |

| Run No. | Sampling Time | Oxygen (%) | Carbon Dioxide (%) | Oxides of Nitrogen (ppm) | |
|--|---------------------|------------|--------------------|--------------------------|----------------------|
| | | | | at Actual O ₂ | At 7% O ₂ |
| 1 | 10:40 AM - 11:00 AM | 14.62 | 3.63 | 10.42 | 23.06 |
| 2 | 11:01 AM - 11:21 AM | 14.63 | 3.63 | 10.49 | 23.25 |
| 3 | 11:22 AM - 11:42 AM | 14.64 | 3.62 | 10.52 | 23.34 |
| Average (ppm) | | 14.63 | 3.63 | 10.48 | 23.22 |
| Guideline ^{1/} (ppm) | | | | - | 35 |
| Guideline ^{2/} (ppm) | | | | - | 120 |
| Guideline ^{3/} (ppm) | | | | - | 120 |
| Result (mg/Nm ³) | | | | 19.71 | 43.68 |
| Emission Rate at Actual O ₂ (g/s) | | | | 2.0971 | |
| Guideline ^{1/} (g/s) | | | | 3.55 | |
| Method | | | | US EPA Method 7E | |

Sampled By : Sathapron Thakarw

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

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

^{3/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ค-6113

Approved by

Sarayuth Jittrantont
Assistant General Manager
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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413437

Date Received : Feb 12, 2024

Date Reported : Feb 20, 2024

Report Number: 2901345-1

Page 1 of 2

Sample Number 2413437-1
Sampled Date Feb 12, 2024
Sample Description Emission from Stationary Source
Location HRSG #2
Date Analysis Commenced Feb 12, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 14.6 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.6 | % |
| Type of Process | Combustion | | Stack Temperature | 156 | °C | Gas Velocity | 19.9 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 9.76 | % | Flow Rate (Actual O2) | 383395 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result | | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|----------------------|--------------------------|---------------|---------------|---|------------------|
| | | | | | at 7 %O ₂ | at 14.6 % O ₂ | | | | |
| Air Testing | | | | | | | | | | |
| Total Suspended Particulate | 10:40 AM - 11:22 AM | mg/m3 | - | 0.5 | <0.5 | <0.5 | 60 | 3.20 | United States Environmental Protection Agency, EPA Method 5 | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Technical Management

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413437

Date Received : Feb 12, 2024

Date Reported : Feb 20, 2024

Report Number: 2901345-1

Page 2 of 2

Sample Number 2413437-1
Sampled Date Feb 12, 2024
Sample Description Emission from Stationary Source
Location HRSG #2
Date Analysis Commenced Feb 12, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 14.6 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.6 | % |
| Type of Process | Combustion | | Stack Temperature | 156 | °C | Gas Velocity | 19.9 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 9.76 | % | Flow Rate (Actual O2) | 383395 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result Emission Rate | Guideline (1) | Guideline (2) | Method | Testing Location |
|-------------------------------|---------------------|------|-----|-----------|----------------------|---------------|---------------|------------|------------------|
| Air Testing | | | | | | | | | |
| Total Suspended Particulate * | 10:40 AM - 11:22 AM | g/s | - | - | <0.053 | - | 0.40 | Calculated | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Sampled By : Sittipan Sanachiw , Sathapron Thakarw

Remark :

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

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



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413443
Date Received :Feb 12, 2024
Date Reported :Feb 15, 2024
Report Number :2901359-1

Page 1 of 1

Sample Number 2413443-1
Sample Description Emission from Stationary Source
Location HRSG #3 (GPS 47P 0730810, 1404999)
Measurement Date Feb 11, 2024

Stack Description

| | | | | | |
|---------------------|-------------|-------------------|---------|----------------|---------------|
| Ambient Temperature | 30 °C | Diameter | 3.30 m | Oxygen | 13.77 % |
| Ambient Pressure | 760 mmHg | Shape | Circle | Carbon dioxide | 4.12 % |
| Type of Process | Combustion | Stack Temperature | 122 °C | Gas Velocity | 20.02 m/s |
| Type of Fuel | Natural Gas | Moisture | 10.97 % | Flow Rate | 414101 Nm3/hr |

| Run No. | Sampling Time | Oxygen (%) | Carbon Dioxide (%) | Oxides of Nitrogen (ppm) | |
|--|---------------------|------------|--------------------|--------------------------|----------------------|
| | | | | at Actual O ₂ | At 7% O ₂ |
| 1 | 10:20 AM - 10:40 AM | 13.87 | 4.07 | 17.45 | 34.48 |
| 2 | 10:41 AM - 11:01 AM | 13.66 | 4.18 | 18.58 | 35.69 |
| 3 | 11:02 AM - 11:22 AM | 13.78 | 4.11 | 17.95 | 35.04 |
| Average (ppm) | | 13.77 | 4.12 | 17.99 | 35.07 |
| Guideline ^{1/} (ppm) | | | | - | 48 |
| Guideline ^{2/} (ppm) | | | | - | 120 |
| Guideline ^{3/} (ppm) | | | | - | 120 |
| Result (mg/Nm ³) | | | | 33.86 | 65.98 |
| Emission Rate at Actual O ₂ (g/s) | | | | 3.8943 | |
| Guideline ^{1/} (g/s) | | | | 5.07 | |
| Method | | | | US EPA Method 7E | |

Sampled By : Sathapron Thakarw

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

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

^{3/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ค-6113

Approved by

Sarayuth Jittrantont
Assistant General Manager
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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413446

Date Received : Feb 11, 2024

Date Reported : Feb 20, 2024

Report Number: 2901373-1

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2413446-1 |
| Sampled Date | Feb 11, 2024 |
| Sample Description | Emission from Stationary Source |
| Location | HRSG #3 (GPS 47P 0730810, 1404999) |
| Date Analysis Commenced | Feb 12, 2024 |
| Condition of Sample | Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated |

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 13.8 | % |
| Ambient Temperature | 30.0 | °C | Shape | Circle | | Carbon Dioxide | 4.1 | % |
| Type of Process | Combustion | | Stack Temperature | 122 | °C | Gas Velocity | 20.0 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 10.94 | % | Flow Rate (Actual O2) | 414708 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result | | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|----------------------|--------------------------|---------------|---------------|---|------------------|
| | | | | | at 7 %O ₂ | at 13.8 % O ₂ | | | | |
| Air Testing | | | | | | | | | | |
| Total Suspended Particulate | 10:20 AM - 10:56 AM | mg/m3 | - | 0.5 | <0.5 | <0.5 | 60 | 3.00 | United States Environmental Protection Agency, EPA Method 5 | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Technical Management

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Approved by

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Dej Changchon
Senior Manager
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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413446

Date Received : Feb 11, 2024

Date Reported : Feb 20, 2024

Report Number: 2901373-1

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 2413446-1 |
| Sampled Date | Feb 11, 2024 |
| Sample Description | Emission from Stationary Source |
| Location | HRSG #3 (GPS 47P 0730810, 1404999) |
| Date Analysis Commenced | Feb 12, 2024 |
| Condition of Sample | Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated |

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 13.8 | % |
| Ambient Temperature | 30.0 | °C | Shape | Circle | | Carbon Dioxide | 4.1 | % |
| Type of Process | Combustion | | Stack Temperature | 122 | °C | Gas Velocity | 20.0 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 10.94 | % | Flow Rate (Actual O2) | 414708 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result Emission Rate | Guideline (1) | Guideline (2) | Method | Testing Location |
|-------------------------------|---------------------|------|-----|-----------|----------------------|---------------|---------------|------------|------------------|
| Air Testing | | | | | | | | | |
| Total Suspended Particulate * | 10:20 AM - 10:56 AM | g/s | - | - | <0.058 | - | 0.40 | Calculated | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Sampled By : Tinnakorn Kulchart , Sathapron Thakarw

Remark :

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

Technical Management

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413449
Date Received :Feb 13, 2024
Date Reported :Feb 20, 2024
Report Number :2901368-1

Page 1 of 1

Sample Number 2413449-1
Sample Description Emission from Stationary Source
Location HRSG #4 (GPS 47P 0730798, 1404983)
Measurement Date Feb 13, 2024

Stack Description

| | | | | | |
|---------------------|-------------|-------------------|--------|----------------|----------------------------|
| Ambient Temperature | 31 °C | Diameter | 3.30 m | Oxygen | 14.50 % |
| Ambient Pressure | 760 mmHg | Shape | Circle | Carbon dioxide | 3.78 % |
| Type of Process | Combustion | Stack Temperature | 123 °C | Gas Velocity | 20.33 m/s |
| Type of Fuel | Natural Gas | Moisture | 7.57 % | Flow Rate | 434739 Nm ³ /hr |

| Run No. | Sampling Time | Oxygen (%) | Carbon Dioxide (%) | Oxides of Nitrogen (ppm) | |
|--|---------------------|------------|--------------------|--------------------------|----------------------|
| | | | | at Actual O ₂ | At 7% O ₂ |
| 1 | 10:30 AM - 10:50 AM | 14.43 | 3.82 | 10.78 | 23.16 |
| 2 | 10:51 AM - 11:11 AM | 14.55 | 3.75 | 9.90 | 21.67 |
| 3 | 11:12 AM - 11:32 AM | 14.52 | 3.76 | 9.95 | 21.69 |
| Average (ppm) | | 14.50 | 3.78 | 10.21 | 22.17 |
| Guideline ^{1/} (ppm) | | | | - | 32 |
| Guideline ^{2/} (ppm) | | | | - | 120 |
| Guideline ^{3/} (ppm) | | | | - | 120 |
| Result (mg/Nm ³) | | | | 19.21 | 41.71 |
| Emission Rate at Actual O ₂ (g/s) | | | | 2.3194 | |
| Guideline ^{1/} (g/s) | | | | 2.84 | |
| Method | | | | US EPA Method 7E | |

Sampled By : Kantaphon Maneesampan

Guideline :

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

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

^{3/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

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ทะเบียนเลขที่ ว-204-ค-6113

Approved by

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413453

Date Received : Feb 13, 2024

Date Reported : Feb 20, 2024

Report Number: 2901382-1

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2413453-1 |
| Sampled Date | Feb 13, 2024 |
| Sample Description | Emission from Stationary Source |
| Location | HRSG #4 |
| Date Analysis Commenced | Feb 14, 2024 |
| Condition of Sample | Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated |

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 14.5 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.8 | % |
| Type of Process | Combustion | | Stack Temperature | 123 | °C | Gas Velocity | 20.4 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 7.56 | % | Flow Rate (Actual O2) | 435324 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result | | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|----------------------|--------------------------|---------------|---------------|---|------------------|
| | | | | | at 7 %O ₂ | at 14.5 % O ₂ | | | | |
| Air Testing | | | | | | | | | | |
| Total Suspended Particulate | 10:30 AM - 11:12 AM | mg/m3 | - | 0.5 | <0.5 | <0.5 | 60 | 3.60 | United States Environmental Protection Agency, EPA Method 5 | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Technical Management

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Approved by

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413453

Date Received : Feb 13, 2024

Date Reported : Feb 20, 2024

Report Number: 2901382-1

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 2413453-1 |
| Sampled Date | Feb 13, 2024 |
| Sample Description | Emission from Stationary Source |
| Location | HRSG #4 |
| Date Analysis Commenced | Feb 14, 2024 |
| Condition of Sample | Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated |

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 14.5 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.8 | % |
| Type of Process | Combustion | | Stack Temperature | 123 | °C | Gas Velocity | 20.4 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 7.56 | % | Flow Rate (Actual O2) | 435324 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result Emission Rate | Guideline (1) | Guideline (2) | Method | Testing Location |
|-------------------------------|---------------------|------|-----|-----------|----------------------|---------------|---------------|------------|------------------|
| Air Testing | | | | | | | | | |
| Total Suspended Particulate * | 10:30 AM - 11:12 AM | g/s | - | - | <0.060 | - | 0.40 | Calculated | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Sampled By : Warawut Pubpa , Santi Chaichana

Remark :

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

Technical Management

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413450
Date Received :Feb 13, 2024
Date Reported :Feb 20, 2024
Report Number :2901369-1

Page 1 of 1

Sample Number 2413450-1
Sample Description Emission from Stationary Source
Location HRSG #5 (GPS 47P 730892, 1405132)
Measurement Date Feb 13, 2024

Stack Description

| | | | | | |
|---------------------|-------------|-------------------|--------|----------------|----------------------------|
| Ambient Temperature | 31 °C | Diameter | 3.30 m | Oxygen | 14.36 % |
| Ambient Pressure | 760 mmHg | Shape | Circle | Carbon dioxide | 3.72 % |
| Type of Process | Combustion | Stack Temperature | 173 °C | Gas Velocity | 21.55 m/s |
| Type of Fuel | Natural Gas | Moisture | 8.35 % | Flow Rate | 405970 Nm ³ /hr |

| Run No. | Sampling Time | Oxygen (%) | Carbon Dioxide (%) | Oxides of Nitrogen (ppm) | |
|--|---------------------|------------|--------------------|--------------------------|----------------------|
| | | | | at Actual O ₂ | At 7% O ₂ |
| 1 | 10:20 AM - 10:40 AM | 14.30 | 3.74 | 7.49 | 15.77 |
| 2 | 10:41 AM - 11:01 AM | 14.38 | 3.71 | 6.22 | 13.25 |
| 3 | 11:02 AM - 11:22 AM | 14.39 | 3.71 | 6.95 | 14.84 |
| Average (ppm) | | 14.36 | 3.72 | 6.89 | 14.62 |
| Guideline ^{1/} (ppm) | | | | - | 20 |
| Guideline ^{2/} (ppm) | | | | - | 120 |
| Guideline ^{3/} (ppm) | | | | - | 120 |
| Result (mg/Nm ³) | | | | 12.96 | 27.51 |
| Emission Rate at Actual O ₂ (g/s) | | | | 1.4610 | |
| Guideline ^{1/} (g/s) | | | | 2.82 | |
| Method | | | | US EPA Method 7E | |

Sampled By : Sathapron Thakarw

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

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

^{3/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

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Approved by

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413454

Date Received : Feb 13, 2024

Date Reported : Feb 20, 2024

Report Number: 2901384-1

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2413454-1 |
| Sampled Date | Feb 13, 2024 |
| Sample Description | Emission from Stationary Source |
| Location | HRSG #5 (GPS 47P 0730892, 1405132) |
| Date Analysis Commenced | Feb 14, 2024 |
| Condition of Sample | Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated |

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 14.4 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.7 | % |
| Type of Process | Combustion | | Stack Temperature | 173 | °C | Gas Velocity | 21.6 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 8.25 | % | Flow Rate (Actual O2) | 406768 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result | | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|----------------------|--------------------------|---------------|---------------|---|------------------|
| | | | | | at 7 %O ₂ | at 14.4 % O ₂ | | | | |
| Air Testing | | | | | | | | | | |
| Total Suspended Particulate | 10:20 AM - 11:02 AM | mg/m3 | - | 0.5 | <0.5 | <0.5 | 60 | 2.30 | United States Environmental Protection Agency, EPA Method 5 | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Technical Management

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413454

Date Received : Feb 13, 2024

Date Reported : Feb 20, 2024

Report Number: 2901384-1

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 2413454-1 |
| Sampled Date | Feb 13, 2024 |
| Sample Description | Emission from Stationary Source |
| Location | HRSG #5 (GPS 47P 0730892, 1405132) |
| Date Analysis Commenced | Feb 14, 2024 |
| Condition of Sample | Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated |

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 760 | mmHg | Diameter | 3.30 | m | Oxygen | 14.4 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.7 | % |
| Type of Process | Combustion | | Stack Temperature | 173 | °C | Gas Velocity | 21.6 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 8.25 | % | Flow Rate (Actual O2) | 406768 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result Emission Rate | Guideline (1) | Guideline (2) | Method | Testing Location |
|-------------------------------|---------------------|------|-----|-----------|----------------------|---------------|---------------|------------|------------------|
| Air Testing | | | | | | | | | |
| Total Suspended Particulate * | 10:20 AM - 11:02 AM | g/s | - | - | <0.056 | - | 0.40 | Calculated | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Sampled By : Sittipan Sanachiw , Tinnakorn Kulchart

Remark :

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
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Approved by

D. Chamon.

Dej Changchon
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413451
Date Received :Feb 12, 2024
Date Reported :Feb 15, 2024
Report Number :2901370-1

Page 1 of 1

Sample Number 2413451-1
Sample Description Emission from Stationary Source
Location HRSG #6 (GPS 47P 0730759, 1405004)
Measurement Date Feb 10, 2024

Stack Description

| | | | | | |
|---------------------|-------------|-------------------|--------|----------------|----------------------------|
| Ambient Temperature | 31 °C | Diameter | 3.30 m | Oxygen | 14.46 % |
| Ambient Pressure | 759 mmHg | Shape | Circle | Carbon dioxide | 3.64 % |
| Type of Process | Combustion | Stack Temperature | 177 °C | Gas Velocity | 23.32 m/s |
| Type of Fuel | Natural Gas | Moisture | 8.04 % | Flow Rate | 436192 Nm ³ /hr |

| Run No. | Sampling Time | Oxygen (%) | Carbon Dioxide (%) | Oxides of Nitrogen (ppm) | |
|--|---------------------|------------|--------------------|--------------------------|----------------------|
| | | | | at Actual O ₂ | At 7% O ₂ |
| 1 | 10:20 AM - 10:40 AM | 14.45 | 3.64 | 6.63 | 14.29 |
| 2 | 10:41 AM - 11:01 AM | 14.48 | 3.63 | 6.46 | 14.00 |
| 3 | 11:02 AM - 11:22 AM | 14.46 | 3.65 | 6.31 | 13.61 |
| Average (ppm) | | 14.46 | 3.64 | 6.47 | 13.97 |
| Guideline ^{1/} (ppm) | | | | - | 20 |
| Guideline ^{2/} (ppm) | | | | - | 120 |
| Guideline ^{3/} (ppm) | | | | - | 120 |
| Result (mg/Nm ³) | | | | 12.17 | 26.27 |
| Emission Rate at Actual O ₂ (g/s) | | | | 1.4743 | |
| Guideline ^{1/} (g/s) | | | | 2.82 | |
| Method | | | | US EPA Method 7E | |

Sampled By : Sathapron Thakarw

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

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

^{3/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ค-6113

Approved by

Sarayuth Jittrantont
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-4702

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



Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413455

Date Received : Feb 10, 2024

Date Reported : Feb 16, 2024

Report Number: 2901385-1

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2413455-1 |
| Sampled Date | Feb 10, 2024 |
| Sample Description | Emission from Stationary Source |
| Location | HRSG #6 (GPS 47P 0730759, 1405004) |
| Date Analysis Commenced | Feb 12, 2024 |
| Condition of Sample | Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated |

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 759 | mmHg | Diameter | 3.30 | m | Oxygen | 14.5 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.6 | % |
| Type of Process | Combustion | | Stack Temperature | 177 | °C | Gas Velocity | 23.4 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 8.02 | % | Flow Rate (Actual O2) | 436791 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result | | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|----------------------|--------------------------|---------------|---------------|---|------------------|
| | | | | | at 7 %O ₂ | at 14.5 % O ₂ | | | | |
| Air Testing | | | | | | | | | | |
| Total Suspended Particulate | 10:20 AM - 11:08 AM | mg/m3 | - | 0.5 | <0.5 | <0.5 | 60 | 2.30 | United States Environmental Protection Agency, EPA Method 5 | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Chamon.

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

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location : CUP 1

Lot ID: 2413455

Date Received : Feb 10, 2024

Date Reported : Feb 16, 2024

Report Number: 2901385-1

Page 2 of 2

| | |
|--------------------------------|---|
| Sample Number | 2413455-1 |
| Sampled Date | Feb 10, 2024 |
| Sample Description | Emission from Stationary Source |
| Location | HRSG #6 (GPS 47P 0730759, 1405004) |
| Date Analysis Commenced | Feb 12, 2024 |
| Condition of Sample | Extracted into one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated |

Stack Description

| | | | | | | | | |
|---------------------|-------------|------|-------------------|--------|----|-----------------------|--------|--------|
| Ambient Pressure | 759 | mmHg | Diameter | 3.30 | m | Oxygen | 14.5 | % |
| Ambient Temperature | 31.0 | °C | Shape | Circle | | Carbon Dioxide | 3.6 | % |
| Type of Process | Combustion | | Stack Temperature | 177 | °C | Gas Velocity | 23.4 | m/s |
| Type of Fuel | Natural Gas | | Moisture | 8.02 | % | Flow Rate (Actual O2) | 436791 | Nm3/hr |

| Analyte | Sampled Time | Unit | LOD | LOQ (LOR) | Result Emission Rate | Guideline (1) | Guideline (2) | Method | Testing Location |
|-------------------------------|---------------------|------|-----|-----------|----------------------|---------------|---------------|------------|------------------|
| Air Testing | | | | | | | | | |
| Total Suspended Particulate * | 10:20 AM - 11:08 AM | g/s | - | - | <0.061 | - | 0.40 | Calculated | Rayong |

Guideline :

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

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 1)

Sampled By : Tinnakorn Kulchart , Sathapron Thakarw

Remark :

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

Technical Management

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ภาคผนวก ค-3

คุณภาพอากาศในสถานประกอบการ



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024
Date Reported : Mar 18, 2024
Report Number : 2924430-1

Page 1 of 10

Sample Number 2424549-1
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location บริเวณ HRSG #3
Date Analysis Commenced Mar 06, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|-----------------|---|-----------|------------------|
| Air Testing | | | | | | | | | |
| Ammonia | 10:00 AM - 12:00 PM | ppm | - | 0.10 | <0.10 | 50 | Based on Method of Air Sampling and Analysis, 401 | MOL | Rayong |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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

Approved by

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Suchada Thammathaworn
Scientist (2)

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024
Date Reported : Mar 18, 2024
Report Number : 2924430-1

Page 2 of 10

Sample Number 2424549-2
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location บริเวณ HRSG #4
Date Analysis Commenced Mar 06, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|-----------------|---|-----------|------------------|
| Air Testing | | | | | | | | | |
| Ammonia | 10:00 AM - 12:00 PM | ppm | - | 0.10 | <0.10 | 50 | Based on Method of Air Sampling and Analysis, 401 | MOL | Rayong |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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Approved by

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Suchada Thammathaworn
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024
Date Reported : Mar 18, 2024
Report Number : 2924430-1

Page 3 of 10

Sample Number 2424549-3
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location บริเวณ HRSG #5
Date Analysis Commenced Mar 06, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|-----------------|---|-----------|------------------|
| Air Testing | | | | | | | | | |
| Ammonia | 10:00 AM - 12:00 PM | ppm | - | 0.10 | <0.10 | 50 | Based on Method of Air Sampling and Analysis, 401 | MOL | Rayong |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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Analysis / Test Report

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92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024
Date Reported : Mar 18, 2024
Report Number : 2924430-1

Page 4 of 10

Sample Number 2424549-4
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location บริเวณ HRSG #6
Date Analysis Commenced Mar 06, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|-----------------|---|-----------|------------------|
| Air Testing | | | | | | | | | |
| Ammonia | 10:00 AM - 12:00 PM | ppm | - | 0.10 | <0.10 | 50 | Based on Method of Air Sampling and Analysis, 401 | MOL | Rayong |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024

Date Reported : Mar 18, 2024

Report Number : 2924430-1

Page 5 of 10

Sample Number 2424549-5
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location NH4OH Tank
Date Analysis Commenced Mar 06, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|-----------------|---|-----------|------------------|
| Air Testing | | | | | | | | | |
| Ammonia | 10:00 AM - 12:00 PM | ppm | - | 0.10 | <0.10 | 50 | Based on Method of Air Sampling and Analysis, 401 | MOL | Rayong |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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

Approved by

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Analysis / Test Report

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92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024

Date Reported : Mar 18, 2024

Report Number : 2924430-1

Page 6 of 10

Sample Number 2424549-6
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location Cooling Tower#1
Date Analysis Commenced Mar 07, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|-----------------|-----------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Chlorine | 10:00 AM - 12:00 PM | ppm | - | 0.10 | <0.10 | 1(C) | Based on OSHA, ID 101 | MOL | Bangkok |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024

Date Reported : Mar 18, 2024

Report Number : 2924430-1

Page 7 of 10

Sample Number 2424549-7
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location Cooling Tower#2
Date Analysis Commenced Mar 07, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|-----------------|-----------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Chlorine | 10:00 AM - 12:00 PM | ppm | - | 0.10 | <0.10 | 1(C) | Based on OSHA, ID 101 | MOL | Bangkok |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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

Approved by

Suchada T.

Suchada Thammathaworn
Scientist (2)

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024

Date Reported : Mar 18, 2024

Report Number : 2924430-1

Page 8 of 10

Sample Number 2424549-8
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location Cooling Tower#3
Date Analysis Commenced Mar 07, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|-----------------|-----------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Chlorine | 10:00 AM - 12:00 PM | ppm | - | 0.10 | <0.10 | 1(C) | Based on OSHA, ID 101 | MOL | Bangkok |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024

Date Reported : Mar 18, 2024

Report Number : 2924430-1

Page 9 of 10

Sample Number 2424549-9
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location Demin Plant#1
Date Analysis Commenced Mar 06, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette and one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------------|---------------------|-------|-----|-----------|--------|-----------------|--------------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Hydrogen chloride | 10:00 AM - 12:00 PM | ppm | - | 0.05 | <0.05 | 5(C) | Based on OSHA, ID-174-SG | MOL | Bangkok |
| Sodium hydroxide as NaOH | 10:00 AM - 12:00 PM | mg/m3 | - | 0.05 | <0.05 | 2 | NIOSH (1994), 7401 | MOL | Rayong |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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

Approved by

Suchada T.

Suchada Thammathaworn
Scientist (2)

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

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RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424549

Date Received : Mar 05, 2024

Date Reported : Mar 18, 2024

Report Number : 2924430-1

Page 10 of 10

Sample Number 2424549-10
Sampled Date Mar 05, 2024
Sample Description Air Quality
Location Demin Plant#2
Date Analysis Commenced Mar 06, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette and one sorbent tube, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 31.0 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline | Testing Location |
|--------------------------|---------------------|-------|-----|-----------|--------|-----------------|--------------------------|-----------|------------------|
| Air Testing | | | | | | | | | |
| Hydrogen chloride | 10:00 AM - 12:00 PM | ppm | - | 0.05 | <0.05 | 5(C) | Based on OSHA, ID-174-SG | MOL | Bangkok |
| Sodium hydroxide as NaOH | 10:00 AM - 12:00 PM | mg/m3 | - | 0.05 | <0.05 | 2 | NIOSH (1994), 7401 | MOL | Rayong |

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Nattakarn Vonginyoo

Remark :

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

Approved by

Suchada T.

Suchada Thammathaworn
Scientist (2)

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

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ภาคผนวก ค-4

ระดับเสียงทั่วไป



Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413479

Date Received : Feb 19, 2024
Date Reported : Feb 22, 2024
Report Number: 2916280-1

Page 1 of 1

Sample Number 2413479-1
Parameter Noise Leq 24 hrs.
Location ริมรั้วด้านทางเข้าโรงงาน
Measurement Date Feb 09 - Feb 10, 2024
Measurement by Norranon Tathongkham
Sound Level meter Serial No. 597167

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 68.1 | 85.4 | 64.3 |
| 11:00 AM - 12:00 PM | 67.2 | 84.4 | 64.0 |
| 12:00 PM - 01:00 PM | 66.5 | 86.4 | 63.7 |
| 01:00 PM - 02:00 PM | 66.2 | 87.2 | 63.3 |
| 02:00 PM - 03:00 PM | 66.1 | 85.4 | 63.0 |
| 03:00 PM - 04:00 PM | 66.2 | 89.4 | 62.8 |
| 04:00 PM - 05:00 PM | 66.3 | 85.7 | 63.6 |
| 05:00 PM - 06:00 PM | 67.0 | 87.5 | 64.1 |
| 06:00 PM - 07:00 PM | 67.2 | 84.9 | 64.2 |
| 07:00 PM - 08:00 PM | 66.8 | 91.0 | 63.9 |
| 08:00 PM - 09:00 PM | 66.5 | 82.6 | 64.1 |
| 09:00 PM - 10:00 PM | 65.5 | 81.2 | 63.7 |
| 10:00 PM - 11:00 PM | 65.3 | 81.6 | 63.7 |
| 11:00 PM - 12:00 AM | 65.5 | 83.3 | 63.7 |
| 12:00 AM - 01:00 AM | 64.9 | 82.5 | 63.6 |
| 01:00 AM - 02:00 AM | 64.7 | 78.1 | 63.6 |
| 02:00 AM - 03:00 AM | 64.7 | 82.4 | 63.6 |
| 03:00 AM - 04:00 AM | 64.5 | 79.9 | 63.6 |
| 04:00 AM - 05:00 AM | 64.5 | 76.7 | 63.6 |
| 05:00 AM - 06:00 AM | 64.9 | 78.7 | 63.7 |
| 06:00 AM - 07:00 AM | 64.9 | 82.3 | 63.7 |
| 07:00 AM - 08:00 AM | 66.5 | 86.9 | 63.9 |
| 08:00 AM - 09:00 AM | 67.8 | 87.1 | 63.5 |
| 09:00 AM - 10:00 AM | 67.5 | 84.6 | 64.8 |

Leq Average 24 hrs. (dB(A)) 66.2
Lmax (dB(A)) 91.0
L90 (dB(A)) 63.7
Ldn (dB(A)) 71.6
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413479

Date Received : Feb 19, 2024
Date Reported : Feb 22, 2024
Report Number: 2916281-1

Page 1 of 1

Sample Number 2413479-2
Parameter Noise Leq 24 hrs.
Location ริมรั้วด้านทางเข้าโรงงาน
Measurement Date Feb 10 - Feb 11, 2024
Measurement by Norranon Tathongkham
Sound Level meter Serial No. 597167

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 66.9 | 83.3 | 64.0 |
| 11:00 AM - 12:00 PM | 68.0 | 85.3 | 66.5 |
| 12:00 PM - 01:00 PM | 67.5 | 90.5 | 65.7 |
| 01:00 PM - 02:00 PM | 67.6 | 84.2 | 64.3 |
| 02:00 PM - 03:00 PM | 66.2 | 83.9 | 64.0 |
| 03:00 PM - 04:00 PM | 67.0 | 87.2 | 64.2 |
| 04:00 PM - 05:00 PM | 67.3 | 82.4 | 65.8 |
| 05:00 PM - 06:00 PM | 67.4 | 84.6 | 65.7 |
| 06:00 PM - 07:00 PM | 71.1 | 90.4 | 67.2 |
| 07:00 PM - 08:00 PM | 68.0 | 85.2 | 64.7 |
| 08:00 PM - 09:00 PM | 66.4 | 88.4 | 64.3 |
| 09:00 PM - 10:00 PM | 65.4 | 83.6 | 64.1 |
| 10:00 PM - 11:00 PM | 67.0 | 89.1 | 64.1 |
| 11:00 PM - 12:00 AM | 71.1 | 92.6 | 68.8 |
| 12:00 AM - 01:00 AM | 65.1 | 79.5 | 64.4 |
| 01:00 AM - 02:00 AM | 65.3 | 82.0 | 64.3 |
| 02:00 AM - 03:00 AM | 64.8 | 79.7 | 64.0 |
| 03:00 AM - 04:00 AM | 64.7 | 77.4 | 64.0 |
| 04:00 AM - 05:00 AM | 64.9 | 80.2 | 64.1 |
| 05:00 AM - 06:00 AM | 64.4 | 82.9 | 63.6 |
| 06:00 AM - 07:00 AM | 64.7 | 87.9 | 63.7 |
| 07:00 AM - 08:00 AM | 66.3 | 81.8 | 64.0 |
| 08:00 AM - 09:00 AM | 67.3 | 85.6 | 63.5 |
| 09:00 AM - 10:00 AM | 66.8 | 91.6 | 63.4 |

Leq Average 24 hrs. (dB(A)) 67.1
Lmax (dB(A)) 92.6
L90 (dB(A)) 64.1
Ldn (dB(A)) 73.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413479

Date Received : Feb 19, 2024
Date Reported : Feb 22, 2024
Report Number: 2916282-1

Page 1 of 1

Sample Number 2413479-3
Parameter Noise Leq 24 hrs.
Location ริมรั้วด้านทางเข้าโรงงาน
Measurement Date Feb 11 - Feb 12, 2024
Measurement by Norranon Tathongkham
Sound Level meter Serial No. 597167

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 66.3 | 86.2 | 63.3 |
| 11:00 AM - 12:00 PM | 65.7 | 82.3 | 63.2 |
| 12:00 PM - 01:00 PM | 66.1 | 82.1 | 63.3 |
| 01:00 PM - 02:00 PM | 65.5 | 83.5 | 63.2 |
| 02:00 PM - 03:00 PM | 65.8 | 81.5 | 63.4 |
| 03:00 PM - 04:00 PM | 67.1 | 89.5 | 63.6 |
| 04:00 PM - 05:00 PM | 66.5 | 82.2 | 63.9 |
| 05:00 PM - 06:00 PM | 67.6 | 89.4 | 64.0 |
| 06:00 PM - 07:00 PM | 66.8 | 84.2 | 63.9 |
| 07:00 PM - 08:00 PM | 66.6 | 86.2 | 64.0 |
| 08:00 PM - 09:00 PM | 66.6 | 85.8 | 64.2 |
| 09:00 PM - 10:00 PM | 65.7 | 82.9 | 64.0 |
| 10:00 PM - 11:00 PM | 65.8 | 83.5 | 63.9 |
| 11:00 PM - 12:00 AM | 65.7 | 81.0 | 63.9 |
| 12:00 AM - 01:00 AM | 65.4 | 83.5 | 63.9 |
| 01:00 AM - 02:00 AM | 65.3 | 80.4 | 63.8 |
| 02:00 AM - 03:00 AM | 64.7 | 77.7 | 63.8 |
| 03:00 AM - 04:00 AM | 65.1 | 78.0 | 63.7 |
| 04:00 AM - 05:00 AM | 65.3 | 77.2 | 63.8 |
| 05:00 AM - 06:00 AM | 65.6 | 82.8 | 63.7 |
| 06:00 AM - 07:00 AM | 65.7 | 80.7 | 63.7 |
| 07:00 AM - 08:00 AM | 68.1 | 90.3 | 64.2 |
| 08:00 AM - 09:00 AM | 69.4 | 85.8 | 64.2 |
| 09:00 AM - 10:00 AM | 68.2 | 87.2 | 63.1 |

Leq Average 24 hrs. (dB(A)) 66.4
Lmax (dB(A)) 90.3
L90 (dB(A)) 63.8
Ldn (dB(A)) 72.1
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

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413479

Date Received : Feb 19, 2024
Date Reported : Feb 22, 2024
Report Number: 2916283-1

Page 1 of 1

Sample Number 2413479-4
Parameter Noise Leq 24 hrs.
Location ริมรั้วด้านทางเข้าโรงงาน
Measurement Date Feb 12 - Feb 13, 2024
Measurement by Norranon Tathongkham
Sound Level meter Serial No. 597167

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 66.9 | 87.9 | 62.6 |
| 11:00 AM - 12:00 PM | 66.9 | 85.3 | 62.8 |
| 12:00 PM - 01:00 PM | 67.0 | 87.3 | 63.4 |
| 01:00 PM - 02:00 PM | 67.3 | 89.2 | 64.6 |
| 02:00 PM - 03:00 PM | 66.9 | 81.9 | 63.1 |
| 03:00 PM - 04:00 PM | 67.2 | 82.6 | 63.0 |
| 04:00 PM - 05:00 PM | 67.1 | 81.2 | 64.0 |
| 05:00 PM - 06:00 PM | 67.2 | 86.1 | 64.6 |
| 06:00 PM - 07:00 PM | 67.8 | 85.1 | 64.0 |
| 07:00 PM - 08:00 PM | 67.2 | 89.3 | 63.8 |
| 08:00 PM - 09:00 PM | 66.7 | 82.4 | 63.9 |
| 09:00 PM - 10:00 PM | 65.3 | 81.0 | 63.6 |
| 10:00 PM - 11:00 PM | 65.7 | 81.6 | 63.7 |
| 11:00 PM - 12:00 AM | 65.7 | 80.2 | 63.7 |
| 12:00 AM - 01:00 AM | 65.1 | 81.3 | 63.7 |
| 01:00 AM - 02:00 AM | 65.1 | 81.0 | 63.7 |
| 02:00 AM - 03:00 AM | 65.3 | 77.7 | 63.6 |
| 03:00 AM - 04:00 AM | 65.1 | 78.3 | 63.7 |
| 04:00 AM - 05:00 AM | 64.9 | 76.3 | 63.8 |
| 05:00 AM - 06:00 AM | 65.3 | 81.8 | 63.8 |
| 06:00 AM - 07:00 AM | 65.0 | 79.2 | 63.7 |
| 07:00 AM - 08:00 AM | 67.4 | 81.5 | 64.0 |
| 08:00 AM - 09:00 AM | 70.0 | 93.4 | 64.1 |
| 09:00 AM - 10:00 AM | 67.6 | 85.4 | 62.9 |

Leq Average 24 hrs. (dB(A)) 66.7
Lmax (dB(A)) 93.4
L90 (dB(A)) 63.7
Ldn (dB(A)) 72.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413479

Date Received : Feb 19, 2024
Date Reported : Feb 22, 2024
Report Number: 2916284-1

Page 1 of 1

Sample Number 2413479-5
Parameter Noise Leq 24 hrs.
Location ริมรั้วด้านทางเข้าโรงงาน
Measurement Date Feb 13 - Feb 14, 2024
Measurement by Norranon Tathongkham
Sound Level meter Serial No. 597167

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 66.1 | 85.2 | 62.3 |
| 11:00 AM - 12:00 PM | 66.3 | 84.8 | 62.3 |
| 12:00 PM - 01:00 PM | 66.3 | 83.5 | 63.1 |
| 01:00 PM - 02:00 PM | 66.5 | 86.6 | 63.6 |
| 02:00 PM - 03:00 PM | 66.8 | 82.4 | 63.9 |
| 03:00 PM - 04:00 PM | 68.1 | 88.7 | 63.7 |
| 04:00 PM - 05:00 PM | 67.1 | 82.6 | 64.1 |
| 05:00 PM - 06:00 PM | 66.2 | 84.0 | 63.5 |
| 06:00 PM - 07:00 PM | 67.0 | 83.2 | 63.7 |
| 07:00 PM - 08:00 PM | 67.3 | 91.4 | 64.0 |
| 08:00 PM - 09:00 PM | 66.4 | 84.0 | 63.8 |
| 09:00 PM - 10:00 PM | 65.2 | 81.0 | 63.7 |
| 10:00 PM - 11:00 PM | 65.5 | 83.7 | 63.8 |
| 11:00 PM - 12:00 AM | 65.0 | 79.7 | 63.7 |
| 12:00 AM - 01:00 AM | 65.1 | 81.5 | 63.8 |
| 01:00 AM - 02:00 AM | 65.0 | 80.5 | 64.0 |
| 02:00 AM - 03:00 AM | 65.0 | 80.4 | 64.0 |
| 03:00 AM - 04:00 AM | 65.5 | 79.8 | 64.5 |
| 04:00 AM - 05:00 AM | 66.6 | 83.6 | 65.7 |
| 05:00 AM - 06:00 AM | 67.5 | 85.5 | 66.5 |
| 06:00 AM - 07:00 AM | 65.6 | 81.4 | 63.9 |
| 07:00 AM - 08:00 AM | 67.9 | 87.6 | 64.2 |
| 08:00 AM - 09:00 AM | 70.3 | 89.6 | 64.3 |
| 09:00 AM - 10:00 AM | 67.7 | 87.5 | 63.3 |

Leq Average 24 hrs. (dB(A)) 66.7
Lmax (dB(A)) 91.4
L90 (dB(A)) 63.8
Ldn (dB(A)) 72.4
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413479

Date Received : Feb 19, 2024
Date Reported : Feb 22, 2024
Report Number: 2916285-1

Page 1 of 1

Sample Number 2413479-6
Parameter Noise Leq 24 hrs.
Location ริมรั้วด้านทางเข้าโรงงาน
Measurement Date Feb 14 - Feb 15, 2024
Measurement by Norranon Tathongkham
Sound Level meter Serial No. 597167

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 67.1 | 88.0 | 63.6 |
| 11:00 AM - 12:00 PM | 67.3 | 88.1 | 63.2 |
| 12:00 PM - 01:00 PM | 67.1 | 84.7 | 64.1 |
| 01:00 PM - 02:00 PM | 66.9 | 84.3 | 64.0 |
| 02:00 PM - 03:00 PM | 66.3 | 84.7 | 62.8 |
| 03:00 PM - 04:00 PM | 68.9 | 86.4 | 63.3 |
| 04:00 PM - 05:00 PM | 67.2 | 85.0 | 63.1 |
| 05:00 PM - 06:00 PM | 66.4 | 85.4 | 63.4 |
| 06:00 PM - 07:00 PM | 67.5 | 87.9 | 64.5 |
| 07:00 PM - 08:00 PM | 67.7 | 91.6 | 64.3 |
| 08:00 PM - 09:00 PM | 66.6 | 82.7 | 64.2 |
| 09:00 PM - 10:00 PM | 65.6 | 81.9 | 63.8 |
| 10:00 PM - 11:00 PM | 65.5 | 81.4 | 63.9 |
| 11:00 PM - 12:00 AM | 65.4 | 85.1 | 63.9 |
| 12:00 AM - 01:00 AM | 64.7 | 78.0 | 63.8 |
| 01:00 AM - 02:00 AM | 64.8 | 79.3 | 63.8 |
| 02:00 AM - 03:00 AM | 64.9 | 78.6 | 64.0 |
| 03:00 AM - 04:00 AM | 65.0 | 79.1 | 64.0 |
| 04:00 AM - 05:00 AM | 65.1 | 78.9 | 63.9 |
| 05:00 AM - 06:00 AM | 65.3 | 79.0 | 64.0 |
| 06:00 AM - 07:00 AM | 65.8 | 86.0 | 63.9 |
| 07:00 AM - 08:00 AM | 68.3 | 92.7 | 64.4 |
| 08:00 AM - 09:00 AM | 70.3 | 89.9 | 64.4 |
| 09:00 AM - 10:00 AM | 68.1 | 89.6 | 63.5 |

Leq Average 24 hrs. (dB(A)) 66.8
Lmax (dB(A)) 92.7
L90 (dB(A)) 63.9
Ldn (dB(A)) 72.0
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

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2413479

Date Received : Feb 19, 2024
Date Reported : Feb 22, 2024
Report Number: 2916286-1

Page 1 of 1

Sample Number 2413479-7
Parameter Noise Leq 24 hrs.
Location ร่มรั้วด้านทางเข้าโรงงาน
Measurement Date Feb 15 - Feb 16, 2024
Measurement by Norranon Tathongkham
Sound Level meter Serial No. 597167

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 67.1 | 88.7 | 63.2 |
| 11:00 AM - 12:00 PM | 66.8 | 88.0 | 63.4 |
| 12:00 PM - 01:00 PM | 66.4 | 84.0 | 63.5 |
| 01:00 PM - 02:00 PM | 66.3 | 81.2 | 63.6 |
| 02:00 PM - 03:00 PM | 67.2 | 84.2 | 63.8 |
| 03:00 PM - 04:00 PM | 66.8 | 85.2 | 63.6 |
| 04:00 PM - 05:00 PM | 67.1 | 88.1 | 63.7 |
| 05:00 PM - 06:00 PM | 66.9 | 82.0 | 64.0 |
| 06:00 PM - 07:00 PM | 67.7 | 90.1 | 64.0 |
| 07:00 PM - 08:00 PM | 68.1 | 91.3 | 64.3 |
| 08:00 PM - 09:00 PM | 66.4 | 80.9 | 64.3 |
| 09:00 PM - 10:00 PM | 65.8 | 82.9 | 64.2 |
| 10:00 PM - 11:00 PM | 65.7 | 81.9 | 64.1 |
| 11:00 PM - 12:00 AM | 65.6 | 84.8 | 64.0 |
| 12:00 AM - 01:00 AM | 65.3 | 82.8 | 64.0 |
| 01:00 AM - 02:00 AM | 65.2 | 79.7 | 64.1 |
| 02:00 AM - 03:00 AM | 65.2 | 83.3 | 64.0 |
| 03:00 AM - 04:00 AM | 65.4 | 80.5 | 64.0 |
| 04:00 AM - 05:00 AM | 65.0 | 78.0 | 63.9 |
| 05:00 AM - 06:00 AM | 65.4 | 80.2 | 63.9 |
| 06:00 AM - 07:00 AM | 65.6 | 81.8 | 63.9 |
| 07:00 AM - 08:00 AM | 67.8 | 85.1 | 64.2 |
| 08:00 AM - 09:00 AM | 69.7 | 90.9 | 64.4 |
| 09:00 AM - 10:00 AM | 67.9 | 86.9 | 63.8 |

Leq Average 24 hrs. (dB(A)) 66.7
Lmax (dB(A)) 91.3
L90 (dB(A)) 64.0
Ldn (dB(A)) 72.1
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.

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ภาคผนวก ค-5

ระดับเสียงในสถานที่ทำงาน



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930037-1

Page 1 of 1

Sample Number 2424596-1
Parameter Noise (Leq 8 hrs.)
Location เครื่องอัดอากาศ
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:15 AM - 10:15 AM | 79.0 | 92.0 | 77.2 |
| 10:15 AM - 11:15 AM | 78.5 | 86.5 | 78.0 |
| 11:15 AM - 12:15 PM | 78.4 | 86.2 | 77.9 |
| 12:15 PM - 01:15 PM | 78.2 | 86.6 | 77.5 |
| 01:15 PM - 02:15 PM | 78.1 | 88.2 | 77.5 |
| 02:15 PM - 03:15 PM | 78.2 | 86.1 | 77.8 |
| 03:15 PM - 04:15 PM | 78.0 | 86.0 | 77.6 |
| 04:15 PM - 05:15 PM | 78.1 | 86.4 | 77.6 |

Leq Average 8 hrs. (dB(A))

78.3

Lmax (dB(A))

92.0

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930038-1

Page 1 of 1

Sample Number 2424596-2
Parameter Noise (Leq 8 hrs.)
Location หอหล่อเย็น
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:18 AM - 10:18 AM | 68.5 | 82.4 | 67.7 |
| 10:18 AM - 11:18 AM | 68.2 | 79.5 | 67.6 |
| 11:18 AM - 12:18 PM | 68.0 | 78.8 | 67.5 |
| 12:18 PM - 01:18 PM | 68.0 | 79.4 | 67.4 |
| 01:18 PM - 02:18 PM | 68.0 | 78.9 | 67.3 |
| 02:18 PM - 03:18 PM | 68.1 | 78.0 | 67.4 |
| 03:18 PM - 04:18 PM | 68.0 | 79.2 | 67.3 |
| 04:18 PM - 05:18 PM | 68.1 | 77.5 | 67.4 |

Leq Average 8 hrs. (dB(A))

68.1

Lmax (dB(A))

82.4

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930039-1

Page 1 of 1

Sample Number 2424596-3
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #1
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:19 PM - 10:19 PM | 69.8 | 80.8 | 69.6 |
| 10:19 PM - 11:19 PM | 69.8 | 74.2 | 69.6 |
| 11:19 PM - 12:19 AM | 69.8 | 75.6 | 69.6 |
| 12:19 AM - 01:19 AM | 69.8 | 73.5 | 69.6 |
| 01:19 AM - 02:19 AM | 69.7 | 72.4 | 69.6 |
| 02:19 AM - 03:19 AM | 69.7 | 74.1 | 69.6 |
| 03:19 AM - 04:19 AM | 69.7 | 73.2 | 69.5 |
| 04:19 AM - 05:19 AM | 69.7 | 72.7 | 69.5 |

Leq Average 8 hrs. (dB(A)) 69.8
Lmax (dB(A)) 80.8
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930040-1

Page 1 of 1

Sample Number 2424596-4
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #2
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:06 AM - 10:06 AM | 81.2 | 84.6 | 80.7 |
| 10:06 AM - 11:06 AM | 80.2 | 81.7 | 80.0 |
| 11:06 AM - 12:06 PM | 80.1 | 81.9 | 79.9 |
| 12:06 PM - 01:06 PM | 80.3 | 81.9 | 80.0 |
| 01:06 PM - 02:06 PM | 80.5 | 81.7 | 80.1 |
| 02:06 PM - 03:06 PM | 80.2 | 81.1 | 79.9 |
| 03:06 PM - 04:06 PM | 80.3 | 83.0 | 80.0 |
| 04:06 PM - 05:06 PM | 80.5 | 84.2 | 80.1 |

Leq Average 8 hrs. (dB(A))

80.4

Lmax (dB(A))

84.6

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930041-1

Page 1 of 1

Sample Number 2424596-5
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #3
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:21 PM - 10:21 PM | 81.6 | 83.7 | 81.3 |
| 10:21 PM - 11:21 PM | 81.7 | 82.8 | 81.4 |
| 11:21 PM - 12:21 AM | 81.5 | 82.8 | 81.3 |
| 12:21 AM - 01:21 AM | 81.7 | 82.9 | 81.3 |
| 01:21 AM - 02:21 AM | 81.8 | 83.1 | 81.5 |
| 02:21 AM - 03:21 AM | 81.7 | 83.0 | 81.5 |
| 03:21 AM - 04:21 AM | 81.6 | 82.8 | 81.3 |
| 04:21 AM - 05:21 AM | 81.5 | 82.7 | 81.3 |

Leq Average 8 hrs. (dB(A)) 81.6
Lmax (dB(A)) 83.7
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930042-1

Page 1 of 1

Sample Number 2424596-6
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #4
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:33 AM - 10:33 AM | 83.3 | 86.8 | 81.8 |
| 10:33 AM - 11:33 AM | 81.8 | 83.7 | 81.4 |
| 11:33 AM - 12:33 PM | 81.8 | 83.9 | 81.3 |
| 12:33 PM - 01:33 PM | 82.4 | 85.4 | 81.7 |
| 01:33 PM - 02:33 PM | 82.4 | 85.5 | 81.5 |
| 02:33 PM - 03:33 PM | 81.8 | 84.5 | 81.2 |
| 03:33 PM - 04:33 PM | 81.9 | 85.0 | 81.3 |
| 04:33 PM - 05:33 PM | 81.9 | 84.2 | 81.4 |

Leq Average 8 hrs. (dB(A))

82.2

Lmax (dB(A))

86.8

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930043-1

Page 1 of 1

Sample Number 2424596-7
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #5
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:37 PM - 10:37 PM | 83.1 | 84.6 | 82.7 |
| 10:37 PM - 11:37 PM | 83.4 | 85.1 | 82.9 |
| 11:37 PM - 12:37 AM | 83.0 | 85.2 | 82.7 |
| 12:37 AM - 01:37 AM | 83.2 | 85.4 | 82.7 |
| 01:37 AM - 02:37 AM | 83.3 | 85.2 | 82.8 |
| 02:37 AM - 03:37 AM | 83.1 | 84.7 | 82.6 |
| 03:37 AM - 04:37 AM | 82.7 | 84.7 | 82.3 |
| 04:37 AM - 05:37 AM | 82.8 | 84.6 | 82.4 |

Leq Average 8 hrs. (dB(A))

83.1

Lmax (dB(A))

85.4

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Analysis / Test Report

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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930044-1

Page 1 of 1

Sample Number 2424596-8
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #6
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:23 PM - 10:23 PM | 80.4 | 85.1 | 80.2 |
| 10:23 PM - 11:23 PM | 80.6 | 81.8 | 80.3 |
| 11:23 PM - 12:23 AM | 80.4 | 82.8 | 80.1 |
| 12:23 AM - 01:23 AM | 80.4 | 87.7 | 80.1 |
| 01:23 AM - 02:23 AM | 80.5 | 82.4 | 80.2 |
| 02:23 AM - 03:23 AM | 80.5 | 81.7 | 80.2 |
| 03:23 AM - 04:23 AM | 80.3 | 81.9 | 80.0 |
| 04:23 AM - 05:23 AM | 80.2 | 81.3 | 80.0 |

Leq Average 8 hrs. (dB(A)) 80.4
Lmax (dB(A)) 87.7
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930045-1

Page 1 of 1

Sample Number 2424596-9
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #1
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:31 PM - 10:31 PM | 74.5 | 78.0 | 74.2 |
| 10:31 PM - 11:31 PM | 74.5 | 80.8 | 74.1 |
| 11:31 PM - 12:31 AM | 74.5 | 76.0 | 74.2 |
| 12:31 AM - 01:31 AM | 74.5 | 76.0 | 74.2 |
| 01:31 AM - 02:31 AM | 74.5 | 76.0 | 74.2 |
| 02:31 AM - 03:31 AM | 74.7 | 76.3 | 74.3 |
| 03:31 AM - 04:31 AM | 74.8 | 76.3 | 74.4 |
| 04:31 AM - 05:31 AM | 74.7 | 76.6 | 74.3 |

Leq Average 8 hrs. (dB(A)) 74.6
Lmax (dB(A)) 80.8
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930046-1

Page 1 of 1

Sample Number 2424596-10
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #2
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:27 AM - 10:27 AM | 79.2 | 83.8 | 78.8 |
| 10:27 AM - 11:27 AM | 78.9 | 79.9 | 78.7 |
| 11:27 AM - 12:27 PM | 78.9 | 80.0 | 78.6 |
| 12:27 PM - 01:27 PM | 79.0 | 80.0 | 78.7 |
| 01:27 PM - 02:27 PM | 79.1 | 80.3 | 78.9 |
| 02:27 PM - 03:27 PM | 79.2 | 80.0 | 78.9 |
| 03:27 PM - 04:27 PM | 79.3 | 83.5 | 79.0 |
| 04:27 PM - 05:27 PM | 79.4 | 80.2 | 79.2 |

Leq Average 8 hrs. (dB(A))

79.1

Lmax (dB(A))

83.8

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930047-1

Page 1 of 1

Sample Number 2424596-11
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #3
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:31 PM - 10:31 PM | 80.1 | 80.8 | 79.9 |
| 10:31 PM - 11:31 PM | 80.2 | 81.0 | 80.0 |
| 11:31 PM - 12:31 AM | 80.1 | 81.0 | 80.0 |
| 12:31 AM - 01:31 AM | 80.3 | 81.0 | 80.1 |
| 01:31 AM - 02:31 AM | 80.4 | 81.0 | 80.1 |
| 02:31 AM - 03:31 AM | 80.2 | 81.0 | 80.1 |
| 03:31 AM - 04:31 AM | 80.2 | 80.9 | 80.0 |
| 04:31 AM - 05:31 AM | 80.2 | 81.2 | 80.0 |

Leq Average 8 hrs. (dB(A))

80.2

Lmax (dB(A))

81.2

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930048-1

Page 1 of 1

Sample Number 2424596-12
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #4
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:34 AM - 10:34 AM | 80.0 | 87.2 | 79.1 |
| 10:34 AM - 11:34 AM | 79.0 | 81.7 | 78.7 |
| 11:34 AM - 12:34 PM | 78.9 | 81.7 | 78.5 |
| 12:34 PM - 01:34 PM | 79.1 | 80.8 | 78.7 |
| 01:34 PM - 02:34 PM | 79.4 | 80.8 | 79.0 |
| 02:34 PM - 03:34 PM | 79.4 | 80.7 | 79.0 |
| 03:34 PM - 04:34 PM | 79.5 | 81.9 | 79.1 |
| 04:34 PM - 05:34 PM | 79.7 | 81.1 | 79.3 |

Leq Average 8 hrs. (dB(A)) 79.4
Lmax (dB(A)) 87.2
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930049-1

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Sample Number 2424596-13
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #5
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:35 PM - 10:35 PM | 76.6 | 81.8 | 76.3 |
| 10:35 PM - 11:35 PM | 76.6 | 78.0 | 76.4 |
| 11:35 PM - 12:35 AM | 76.7 | 89.7 | 76.4 |
| 12:35 AM - 01:35 AM | 76.7 | 77.7 | 76.5 |
| 01:35 AM - 02:35 AM | 76.9 | 78.3 | 76.6 |
| 02:35 AM - 03:35 AM | 76.7 | 77.7 | 76.4 |
| 03:35 AM - 04:35 AM | 76.4 | 77.5 | 76.2 |
| 04:35 AM - 05:35 AM | 76.5 | 77.4 | 76.3 |

Leq Average 8 hrs. (dB(A))

76.6

Lmax (dB(A))

89.7

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930050-1

Page 1 of 1

Sample Number 2424596-14
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #6
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:00 PM - 10:00 PM | 78.8 | 79.9 | 78.5 |
| 10:00 PM - 11:00 PM | 78.9 | 80.0 | 78.6 |
| 11:00 PM - 12:00 AM | 78.8 | 79.9 | 78.5 |
| 12:00 AM - 01:00 AM | 78.8 | 79.7 | 78.5 |
| 01:00 AM - 02:00 AM | 78.8 | 79.8 | 78.6 |
| 02:00 AM - 03:00 AM | 78.8 | 79.6 | 78.5 |
| 03:00 AM - 04:00 AM | 78.6 | 79.4 | 78.4 |
| 04:00 AM - 05:00 AM | 78.6 | 79.5 | 78.4 |

Leq Average 8 hrs. (dB(A))

78.8

Lmax (dB(A))

80.0

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424596

Date Received : Mar 05, 2024
Date Reported : Mar 08, 2024
Report Number: 2930051-1

Page 1 of 1

Sample Number 2424596-15
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำสำรอง
Measurement Date Mar 04, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:22 AM - 10:22 AM | 69.2 | 76.7 | 68.8 |
| 10:22 AM - 11:22 AM | 69.2 | 73.1 | 68.8 |
| 11:22 AM - 12:22 PM | 69.2 | 71.9 | 69.0 |
| 12:22 PM - 01:22 PM | 69.2 | 72.2 | 69.0 |
| 01:22 PM - 02:22 PM | 69.3 | 80.2 | 69.1 |
| 02:22 PM - 03:22 PM | 69.3 | 71.2 | 69.1 |
| 03:22 PM - 04:22 PM | 69.4 | 74.5 | 69.1 |
| 04:22 PM - 05:22 PM | 69.7 | 77.1 | 69.3 |

Leq Average 8 hrs. (dB(A))

69.3

Lmax (dB(A))

80.2

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023009-1

Page 1 of 1

Sample Number 2451736-1
Parameter Noise (Leq 8 hrs.)
Location เครื่องอัดอากาศ
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:01 AM - 11:01 AM | 77.8 | 88.3 | 76.9 |
| 11:01 AM - 12:01 PM | 77.4 | 81.6 | 76.7 |
| 12:01 PM - 01:01 PM | 77.3 | 81.8 | 76.7 |
| 01:01 PM - 02:01 PM | 77.2 | 81.8 | 76.3 |
| 02:01 PM - 03:01 PM | 77.1 | 82.8 | 76.4 |
| 03:01 PM - 04:01 PM | 77.1 | 83.4 | 76.2 |
| 04:01 PM - 05:01 PM | 77.1 | 84.5 | 76.4 |
| 05:01 PM - 06:01 PM | 77.1 | 81.5 | 75.9 |

Leq Average 8 hrs. (dB(A))

77.3

Lmax (dB(A))

88.3

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023010-1

Page 1 of 1

Sample Number 2451736-2
Parameter Noise (Leq 8 hrs.)
Location หอหล่อเย็น
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:04 AM - 11:04 AM | 69.5 | 78.6 | 69.0 |
| 11:04 AM - 12:04 PM | 69.4 | 77.0 | 69.0 |
| 12:04 PM - 01:04 PM | 69.3 | 75.9 | 68.9 |
| 01:04 PM - 02:04 PM | 69.4 | 79.3 | 68.9 |
| 02:04 PM - 03:04 PM | 69.5 | 80.6 | 68.9 |
| 03:04 PM - 04:04 PM | 69.4 | 76.8 | 68.9 |
| 04:04 PM - 05:04 PM | 69.4 | 76.4 | 69.0 |
| 05:04 PM - 06:04 PM | 69.8 | 80.3 | 69.1 |

Leq Average 8 hrs. (dB(A))

69.5

Lmax (dB(A))

80.6

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023011-1

Page 1 of 1

Sample Number 2451736-3
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #1
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:55 AM - 10:55 AM | 77.5 | 107.4 | 75.8 |
| 10:55 AM - 11:55 AM | 76.0 | 79.1 | 75.7 |
| 11:55 AM - 12:55 PM | 75.8 | 79.3 | 75.4 |
| 12:55 PM - 01:55 PM | 75.6 | 79.7 | 75.2 |
| 01:55 PM - 02:55 PM | 75.5 | 80.1 | 75.1 |
| 02:55 PM - 03:55 PM | 75.7 | 79.0 | 75.3 |
| 03:55 PM - 04:55 PM | 76.0 | 83.2 | 75.6 |
| 04:55 PM - 05:55 PM | 76.2 | 79.9 | 76.0 |

Leq Average 8 hrs. (dB(A))

76.1

Lmax (dB(A))

107.4

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023012-1

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Sample Number 2451736-4
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #2
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:14 AM - 11:14 AM | 80.0 | 84.4 | 79.9 |
| 11:14 AM - 12:14 PM | 80.1 | 81.4 | 79.9 |
| 12:14 PM - 01:14 PM | 80.0 | 82.4 | 79.9 |
| 01:14 PM - 02:14 PM | 80.0 | 81.4 | 79.8 |
| 02:14 PM - 03:14 PM | 80.0 | 86.5 | 79.9 |
| 03:14 PM - 04:14 PM | 80.2 | 82.1 | 80.0 |
| 04:14 PM - 05:14 PM | 80.2 | 85.2 | 80.1 |
| 05:14 PM - 06:14 PM | 80.3 | 84.1 | 80.1 |

Leq Average 8 hrs. (dB(A))

80.1

Lmax (dB(A))

86.5

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023013-1

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Sample Number 2451736-5
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #3
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:15 AM - 11:15 AM | 80.6 | 84.6 | 80.4 |
| 11:15 AM - 12:15 PM | 80.7 | 81.9 | 80.5 |
| 12:15 PM - 01:15 PM | 80.6 | 82.2 | 80.4 |
| 01:15 PM - 02:15 PM | 80.6 | 81.7 | 80.4 |
| 02:15 PM - 03:15 PM | 80.6 | 83.7 | 80.4 |
| 03:15 PM - 04:15 PM | 80.7 | 82.3 | 80.5 |
| 04:15 PM - 05:15 PM | 80.7 | 83.8 | 80.5 |
| 05:15 PM - 06:15 PM | 80.7 | 84.8 | 80.6 |

Leq Average 8 hrs. (dB(A))

80.7

Lmax (dB(A))

84.8

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023014-1

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Sample Number 2451736-6
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #4
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:08 AM - 11:08 AM | 79.6 | 80.4 | 79.5 |
| 11:08 AM - 12:08 PM | 79.7 | 80.5 | 79.5 |
| 12:08 PM - 01:08 PM | 79.5 | 80.3 | 79.4 |
| 01:08 PM - 02:08 PM | 79.4 | 80.2 | 79.3 |
| 02:08 PM - 03:08 PM | 79.5 | 82.2 | 79.3 |
| 03:08 PM - 04:08 PM | 79.5 | 80.1 | 79.4 |
| 04:08 PM - 05:08 PM | 79.7 | 81.5 | 79.5 |
| 05:08 PM - 06:08 PM | 79.7 | 82.3 | 79.6 |

Leq Average 8 hrs. (dB(A)) 79.6
Lmax (dB(A)) 82.3
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023015-1

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Sample Number 2451736-7
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #5
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:27 AM - 11:27 AM | 80.4 | 81.1 | 80.2 |
| 11:27 AM - 12:27 PM | 80.4 | 81.0 | 80.2 |
| 12:27 PM - 01:27 PM | 80.3 | 81.1 | 80.1 |
| 01:27 PM - 02:27 PM | 80.3 | 81.4 | 80.1 |
| 02:27 PM - 03:27 PM | 80.2 | 81.0 | 80.0 |
| 03:27 PM - 04:27 PM | 80.3 | 81.3 | 80.1 |
| 04:27 PM - 05:27 PM | 80.5 | 81.2 | 80.3 |
| 05:27 PM - 06:27 PM | 80.6 | 81.2 | 80.4 |

Leq Average 8 hrs. (dB(A)) 80.4
Lmax (dB(A)) 81.4
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023016-1

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Sample Number 2451736-8
Parameter Noise (Leq 8 hrs.)
Location เครื่องกำเนิดไฟฟ้ากังหันก๊าซ #6
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:50 AM - 10:50 AM | 79.4 | 81.5 | 79.2 |
| 10:50 AM - 11:50 AM | 79.4 | 87.0 | 79.2 |
| 11:50 AM - 12:50 PM | 79.4 | 81.6 | 79.1 |
| 12:50 PM - 01:50 PM | 79.3 | 83.1 | 79.1 |
| 01:50 PM - 02:50 PM | 79.3 | 83.1 | 79.1 |
| 02:50 PM - 03:50 PM | 79.3 | 83.1 | 79.1 |
| 03:50 PM - 04:50 PM | 79.4 | 85.0 | 79.2 |
| 04:50 PM - 05:50 PM | 79.5 | 84.5 | 79.2 |

Leq Average 8 hrs. (dB(A)) 79.4
Lmax (dB(A)) 87.0
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023017-1

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Sample Number 2451736-9
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #1
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:58 AM - 10:58 AM | 77.9 | 80.5 | 77.6 |
| 10:58 AM - 11:58 AM | 77.9 | 78.9 | 77.6 |
| 11:58 AM - 12:58 PM | 77.7 | 78.8 | 77.5 |
| 12:58 PM - 01:58 PM | 77.7 | 78.8 | 77.4 |
| 01:58 PM - 02:58 PM | 77.7 | 84.0 | 77.4 |
| 02:58 PM - 03:58 PM | 77.7 | 79.1 | 77.5 |
| 03:58 PM - 04:58 PM | 77.8 | 78.8 | 77.6 |
| 04:58 PM - 05:58 PM | 77.9 | 79.2 | 77.7 |

Leq Average 8 hrs. (dB(A)) 77.8
Lmax (dB(A)) 84.0
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023018-1

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Sample Number 2451736-10
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #2
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:09 AM - 11:09 AM | 79.4 | 81.6 | 79.2 |
| 11:09 AM - 12:09 PM | 79.5 | 82.5 | 79.3 |
| 12:09 PM - 01:09 PM | 79.4 | 80.2 | 79.2 |
| 01:09 PM - 02:09 PM | 79.3 | 80.1 | 79.2 |
| 02:09 PM - 03:09 PM | 79.3 | 84.8 | 79.1 |
| 03:09 PM - 04:09 PM | 79.4 | 80.0 | 79.2 |
| 04:09 PM - 05:09 PM | 79.5 | 80.3 | 79.4 |
| 05:09 PM - 06:09 PM | 79.7 | 80.3 | 79.5 |

Leq Average 8 hrs. (dB(A))

79.4

Lmax (dB(A))

84.8

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023019-1

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Sample Number 2451736-11
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #3
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:11 AM - 11:11 AM | 80.2 | 97.4 | 80.0 |
| 11:11 AM - 12:11 PM | 80.2 | 81.1 | 80.1 |
| 12:11 PM - 01:11 PM | 80.1 | 80.6 | 80.0 |
| 01:11 PM - 02:11 PM | 80.0 | 80.7 | 79.9 |
| 02:11 PM - 03:11 PM | 80.1 | 92.9 | 79.9 |
| 03:11 PM - 04:11 PM | 80.1 | 80.7 | 79.9 |
| 04:11 PM - 05:11 PM | 80.2 | 80.8 | 80.1 |
| 05:11 PM - 06:11 PM | 80.4 | 81.6 | 80.2 |

Leq Average 8 hrs. (dB(A))

80.2

Lmax (dB(A))

97.4

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023020-1

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Sample Number 2451736-12
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #4
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:20 AM - 11:20 AM | 80.0 | 81.9 | 79.6 |
| 11:20 AM - 12:20 PM | 80.1 | 82.1 | 79.7 |
| 12:20 PM - 01:20 PM | 80.0 | 81.9 | 79.6 |
| 01:20 PM - 02:20 PM | 79.9 | 82.3 | 79.6 |
| 02:20 PM - 03:20 PM | 80.0 | 81.9 | 79.7 |
| 03:20 PM - 04:20 PM | 80.1 | 82.3 | 79.8 |
| 04:20 PM - 05:20 PM | 80.3 | 83.0 | 79.9 |
| 05:20 PM - 06:20 PM | 80.3 | 82.0 | 80.0 |

Leq Average 8 hrs. (dB(A))

80.1

Lmax (dB(A))

83.0

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
Date Reported : Jun 14, 2024
Report Number: 3023021-1

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Sample Number 2451736-13
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #5
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:25 AM - 11:25 AM | 75.4 | 77.0 | 75.2 |
| 11:25 AM - 12:25 PM | 75.3 | 75.9 | 75.1 |
| 12:25 PM - 01:25 PM | 75.2 | 75.9 | 75.0 |
| 01:25 PM - 02:25 PM | 75.1 | 77.9 | 74.9 |
| 02:25 PM - 03:25 PM | 75.1 | 79.0 | 74.9 |
| 03:25 PM - 04:25 PM | 75.1 | 75.8 | 74.9 |
| 04:25 PM - 05:25 PM | 75.2 | 75.9 | 75.0 |
| 05:25 PM - 06:25 PM | 75.2 | 76.0 | 74.9 |

Leq Average 8 hrs. (dB(A))

75.2

Lmax (dB(A))

79.0

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
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Report Number: 3023022-1

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Sample Number 2451736-14
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำหลัก HRSG #6
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:48 AM - 10:48 AM | 78.7 | 87.6 | 78.4 |
| 10:48 AM - 11:48 AM | 78.7 | 88.4 | 78.3 |
| 11:48 AM - 12:48 PM | 78.6 | 80.0 | 78.3 |
| 12:48 PM - 01:48 PM | 78.9 | 87.6 | 78.5 |
| 01:48 PM - 02:48 PM | 79.1 | 92.0 | 78.4 |
| 02:48 PM - 03:48 PM | 78.5 | 80.7 | 78.3 |
| 03:48 PM - 04:48 PM | 78.6 | 80.0 | 78.3 |
| 04:48 PM - 05:48 PM | 78.6 | 79.7 | 78.4 |

Leq Average 8 hrs. (dB(A))

78.7

Lmax (dB(A))

92.0

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2451736

Date Received : Jun 11, 2024
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Report Number: 3023023-1

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Sample Number 2451736-15
Parameter Noise (Leq 8 hrs.)
Location หน่วยผลิตไอน้ำสำรอง
Measurement Date Jun 10, 2024
Measurement by Nattakarn Vonginyoo

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:57 AM - 10:57 AM | 75.7 | 79.4 | 75.4 |
| 10:57 AM - 11:57 AM | 75.7 | 76.9 | 75.4 |
| 11:57 AM - 12:57 PM | 75.5 | 76.7 | 75.2 |
| 12:57 PM - 01:57 PM | 75.4 | 77.1 | 75.1 |
| 01:57 PM - 02:57 PM | 75.5 | 78.4 | 75.2 |
| 02:57 PM - 03:57 PM | 75.7 | 77.0 | 75.3 |
| 03:57 PM - 04:57 PM | 75.8 | 78.7 | 75.5 |
| 04:57 PM - 05:57 PM | 76.0 | 77.5 | 75.6 |

Leq Average 8 hrs. (dB(A)) 75.7
Lmax (dB(A)) 79.4
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Life Sciences

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ภาคผนวก ค-6

คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING

No.0042

Lot ID: 23147434

Date Received : Jan 09, 2024

Date Reported : Jan 16, 2024

Report Number : 2872710-1

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O :

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 2

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 23147434-1 | | | | | | |
| Sampled Date | Jan 09, 2024 10:38 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Jan 09, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤500 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| COD | mg/L | 1.5 | 25 | <25 | ≤750 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | <3 | ≤10 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C | | - | - | 7.8 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Residual Free Chlorine * | mg/L | - | 0.1 | <0.1 | ≤1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F) | Rayong |
| Temperature * | Degree C | - | - | 31.0 | ≤45 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 536 | ≤3000 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Kjeldahl Nitrogen as N | mg/L | - | 1.0 | 3.6 | ≤100 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D) | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 22 | ≤200 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O :

Project Name : Monitoring

Project Location: CUP 1

TESTING

No.0042

Lot ID: 23147434

Date Received : Jan 09, 2024

Date Reported : Jan 16, 2024

Report Number : 2872710-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , 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

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O :

Project Name : Monitoring

Project Location: CUP 1

TESTING

No.0009

Lot ID: 23147434

Date Received : Jan 09, 2024

Date Reported : Jan 16, 2024

Report Number : 2872710-2

Page 1 of 1

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 23147434-1 | | | | | | |
| Sampled Date | Jan 09, 2024 10:38 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Jan 10, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|--------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Copper | mg/L | 0.0003 | 0.0005 | 0.005 | ≤2.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Zinc | mg/L | 0.003 | 0.005 | 0.04 | ≤5.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , 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

Savitree N.

Savitree Noisangiam

Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O :

Project Name : Monitoring

Project Location: CUP 1

TESTING

No.0009

Lot ID: 23147434

Date Received : Jan 09, 2024

Date Reported : Jan 16, 2024

Report Number : 2872710-3

Page 1 of 1

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 23147434-1 | | | | | | |
| Sampled Date | Jan 09, 2024 10:38 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Jan 10, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|-------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Iron | mg/L | 0.003 | 0.005 | 0.45 | ≤10.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Water Testing | | | | | | | |
| Nitrate as N * | mg/L | 0.015 | 0.05 | 1.22 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E) | Rayong |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

- LOD : Limit of Detection
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2412624

Date Received : Feb 13, 2024

Date Reported : Feb 21, 2024

Report Number : 2899967-1

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2412624-1 |
| Sampled Date | Feb 13, 2024 10:40 AM |
| Sample Description | Wastewater |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ |
| Date Analysis Commenced | Feb 13, 2024 |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤500 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| COD | mg/L | 1.5 | 25 | <25 | ≤750 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | <3 | ≤10 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C | | - | - | 7.8 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Residual Free Chlorine * | mg/L | - | 0.1 | <0.1 | ≤1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F) | Rayong |
| Temperature * | Degree C | - | - | 31.0 | ≤45 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 316 | ≤3000 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Kjeldahl Nitrogen as N | mg/L | - | 1.0 | 2.2 | ≤100 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D) | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 12 | ≤200 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 1

TESTING
No.0042
Lot ID: 2412624
Date Received : Feb 13, 2024
Date Reported : Feb 21, 2024
Report Number : 2899967-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , 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

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2412624

Date Received : Feb 13, 2024

Date Reported : Feb 21, 2024

Report Number : 2899967-2

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 1

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2412624-1 | | | | | | |
| Sampled Date | Feb 13, 2024 10:40 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Feb 14, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|--------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Copper | mg/L | 0.0003 | 0.0005 | 0.005 | ≤2.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Zinc | mg/L | 0.003 | 0.005 | 0.04 | ≤5.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , 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.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

TESTING
No.0009
Lot ID: 2412624
Date Received : Feb 13, 2024
Date Reported : Feb 21, 2024
Report Number : 2899967-3

Page 1 of 1

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2412624-1 | | | | | | |
| Sampled Date | Feb 13, 2024 10:40 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Feb 14, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|-------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Iron | mg/L | 0.003 | 0.005 | 0.19 | ≤10.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Water Testing | | | | | | | |
| Nitrate as N * | mg/L | 0.015 | 0.05 | 0.37 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E) | Rayong |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai , 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.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Savitree N.

Savitree Noisangiam
Manager

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6403-32/ EMAIL

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2424602

Date Received : Mar 12, 2024

Date Reported : Mar 19, 2024

Report Number : 2924440-1

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 2

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2424602-1 | | | | | | |
| Sampled Date | Mar 12, 2024 10:05 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Mar 12, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤500 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| COD | mg/L | 1.5 | 25 | <25 | ≤750 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | <3 | ≤10 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C | | - | - | 8.0 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Residual Free Chlorine * | mg/L | - | 0.1 | <0.1 | ≤1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F) | Rayong |
| Temperature * | Degree C | - | - | 32.2 | ≤45 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 188 | ≤3000 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Kjeldahl Nitrogen as N | mg/L | - | 1.0 | 1.8 | ≤100 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D) | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 21 | ≤200 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 1

TESTING
No.0042
Lot ID: 2424602
Date Received : Mar 12, 2024
Date Reported : Mar 19, 2024
Report Number : 2924440-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , 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

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2424602

Date Received : Mar 12, 2024

Date Reported : Mar 19, 2024

Report Number : 2924440-2

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 1

| | |
|--------------------------------|---|
| Sample Number | 2424602-1 |
| Sampled Date | Mar 12, 2024 10:05 AM |
| Sample Description | Wastewater |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ |
| Date Analysis Commenced | Mar 13, 2024 |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|--------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Copper | mg/L | 0.0003 | 0.0005 | 0.010 | ≤2.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Zinc | mg/L | 0.003 | 0.005 | 0.12 | ≤5.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , 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.
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Technical Management

Savitree N.

Savitree Noisangiam

Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2424602

Date Received : Mar 12, 2024

Date Reported : Mar 19, 2024

Report Number : 2924440-3

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 1

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2424602-1 | | | | | | |
| Sampled Date | Mar 12, 2024 10:05 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Mar 13, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|-------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Iron | mg/L | 0.003 | 0.005 | 0.48 | ≤10.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Water Testing | | | | | | | |
| Nitrate as N * | mg/L | 0.015 | 0.05 | 0.79 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E) | Rayong |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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Approved by

Savitree N.

Savitree Noisangiam
Manager

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6403-32/ EMAIL

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2436203

Date Received : Apr 09, 2024

Date Reported : Apr 19, 2024

Report Number : 2950769-1

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2436203-1 |
| Sampled Date | Apr 09, 2024 10:35 AM |
| Sample Description | Wastewater |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ |
| Date Analysis Commenced | Apr 09, 2024 |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles.sample containers comply to pretreatment - preservation standards (APHA/USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤500 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| COD | mg/L | 1.5 | 25 | <25 | ≤750 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | <3 | ≤10 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C | | - | - | 8.0 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Residual Free Chlorine * | mg/L | - | 0.1 | <0.1 | ≤1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F) | Rayong |
| Temperature * | Degree C | - | - | 34.1 | ≤45 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 776 | ≤3000 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, 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, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D) | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 12 | ≤200 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Lot ID: 2436203

Date Received : Apr 09, 2024

Date Reported : Apr 19, 2024

Report Number : 2950769-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , 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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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2436203

Date Received : Apr 09, 2024

Date Reported : Apr 19, 2024

Report Number : 2950769-2

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 1

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2436203-1 | | | | | | |
| Sampled Date | Apr 09, 2024 10:35 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Apr 10, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles.sample containers comply to pretreatment - preservation standards (APHA/USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|--------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Copper | mg/L | 0.0003 | 0.0005 | 0.007 | ≤2.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Zinc | mg/L | 0.003 | 0.005 | 0.05 | ≤5.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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Technical Management

Chamatt L.

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2436203

Date Received : Apr 09, 2024

Date Reported : Apr 19, 2024

Report Number : 2950769-3

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 1

| Sample Number | 2436203-1 | | | | | | |
|--------------------------------|---|-------|-----------|--------|---------------------------|---|------------------|
| Sampled Date | Apr 09, 2024 10:35 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Apr 09, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles.sample containers comply to pretreatment - preservation standards (APHA/USEPA) | | | | | | |
| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
| Metals Testing | | | | | | | |
| Iron | mg/L | 0.003 | 0.005 | 0.25 | ≤10.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Water Testing | | | | | | | |
| Nitrate as N * | mg/L | 0.015 | 0.05 | 0.49 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E) | Rayong |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2447643

Date Received : May 14, 2024

Date Reported : May 21, 2024

Report Number : 2976969-1

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 2

| | |
|--------------------------------|---|
| Sample Number | 2447643-1 |
| Sampled Date | May 14, 2024 10:05 AM |
| Sample Description | Wastewater |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ |
| Date Analysis Commenced | May 14, 2024 |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤500 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| COD | mg/L | 1.5 | 25 | <25 | ≤750 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | <3 | ≤10 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C | | - | - | 7.9 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Residual Free Chlorine * | mg/L | - | 0.1 | <0.1 | ≤1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F) | Rayong |
| Temperature * | Degree C | - | - | 32.7 | ≤45 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 316 | ≤3000 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, 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, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D) | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 30 | ≤200 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 1

TESTING
No.0042
Lot ID: 2447643
Date Received : May 14, 2024
Date Reported : May 21, 2024
Report Number : 2976969-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ ว-323-จ-9461 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

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Technical Management

Photchana S.

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2447643

Date Received : May 14, 2024

Date Reported : May 21, 2024

Report Number : 2976969-2

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 1

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2447643-1 | | | | | | |
| Sampled Date | May 14, 2024 10:05 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | May 15, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|--------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Copper | mg/L | 0.0003 | 0.0005 | 0.007 | ≤2.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Zinc | mg/L | 0.003 | 0.005 | 0.16 | ≤5.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-0084

Remark :

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

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2447643

Date Received : May 14, 2024

Date Reported : May 21, 2024

Report Number : 2976969-3

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 1

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2447643-1 | | | | | | |
| Sampled Date | May 14, 2024 10:05 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | May 15, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|-------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Iron | mg/L | 0.003 | 0.005 | 0.36 | ≤10.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Water Testing | | | | | | | |
| Nitrate as N * | mg/L | 0.015 | 0.05 | 0.50 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E) | Rayong |

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Chainusorn Lertnanthakunchai , Samart Khumphlee

Remark :

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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Savitree N.

Savitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2451738

Date Received : Jun 11, 2024

Date Reported : Jun 18, 2024

Report Number : 2986188-1

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 2

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2451738-1 | | | | | | |
| Sampled Date | Jun 11, 2024 10:30 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Jun 11, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤500 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| COD | mg/L | 1.5 | 25 | <25 | ≤750 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D | Rayong |
| Oil & Grease | mg/L | - | 3 | <3 | ≤10 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C | | - | - | 7.8 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Residual Free Chlorine * | mg/L | - | 0.1 | <0.1 | ≤1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F) | Rayong |
| Temperature * | Degree C | - | - | 32.2 | ≤45 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 166 | ≤3000 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, 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, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D) | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 11 | ≤200 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150
P/O : DA41002956
Project Name : Monitoring
Project Location: CUP 1

TESTING
No.0042
Lot ID: 2451738
Date Received : Jun 11, 2024
Date Reported : Jun 18, 2024
Report Number : 2986188-1

Page 2 of 2

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-9461 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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- 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-9446

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2451738

Date Received : Jun 11, 2024

Date Reported : Jun 18, 2024

Report Number : 2986188-2

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 1

| | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|
| Sample Number | 2451738-1 | | | | | | |
| Sampled Date | Jun 11, 2024 10:30 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Jun 12, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|--------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Copper | mg/L | 0.0003 | 0.0005 | 0.003 | ≤2.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Zinc | mg/L | 0.003 | 0.005 | 0.04 | ≤5.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |

Guideline : Notification of the 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-9461 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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Technical Management

Savitree N.

Savitree Noisangiam

Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2451738

Date Received : Jun 11, 2024

Date Reported : Jun 18, 2024

Report Number : 2986188-3

Client : Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

P/O : DA41002956

Project Name : Monitoring

Project Location: CUP 1

Page 1 of 1

| Sample Number | 2451738-1 | | | | | | |
|--------------------------------|---|-------|-----------|--------|---------------------------|---|------------------|
| Sampled Date | Jun 11, 2024 10:30 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | บ่อตรวจวัดคุณภาพน้ำทิ้งของโครงการ | | | | | | |
| Date Analysis Commenced | Jun 12, 2024 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |
| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
| Metals Testing | | | | | | | |
| Iron | mg/L | 0.003 | 0.005 | 0.31 | ≤10.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok |
| Water Testing | | | | | | | |
| Nitrate as N * | mg/L | 0.015 | 0.05 | 0.61 | No Standard | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E) | 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 , Pattarapol Sawangjaitam

Remark :

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Approved by

Savitree N.

Savitree Noisangiam
Manager

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ภาคผนวก ค-7

ความร้อนในสถานที่ทำงาน



Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand
21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

Report Number: 2924447-1

Page 1 of 13

Sample Number 2424604-1
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|----------------------------------|----------------|-----------|----------|---------|---------|
| เครื่องกำเนิดไฟฟ้ากังหันก๊าซ # 1 | 120 | 29.1 | 27.0 | 33.9 | 33.2 |
| Average (WBGT) | | 29.1 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management


Supot Salamteh
Section Head

Approved by


Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand
21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

Report Number: 2924447-1

Page 2 of 13

Sample Number 2424604-2
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|----------------------------------|----------------|-----------|----------|---------|---------|
| เครื่องกำเนิดไฟฟ้ากังหันก๊าซ # 2 | 120 | 29.0 | 26.8 | 34.0 | 33.0 |
| Average (WBGT) | | 29.0 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management


Supot Salamteh
Section Head

Approved by


Wichan Choonharat
Assistant Manager

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Analysis / Test Report

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92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand
21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

Report Number: 2924447-1

Page 3 of 13

Sample Number 2424604-3
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|----------------------------------|----------------|-----------|----------|---------|---------|
| เครื่องกำเนิดไฟฟ้ากังหันก๊าซ # 3 | 120 | 29.5 | 27.2 | 34.8 | 33.8 |
| 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 Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management


Supot Salamteh
Section Head

Approved by


Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand
21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

Report Number: 2924447-1

Page 4 of 13

Sample Number 2424604-4
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|----------------------------------|----------------|-----------|----------|---------|---------|
| เครื่องกำเนิดไฟฟ้ากังหันก๊าซ # 4 | 120 | 29.0 | 26.8 | 34.1 | 33.2 |
| Average (WBGT) | | 29.0 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management


Supot Salamteh
Section Head

Approved by


Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Global Power Synergy Public Company Limited
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand
21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

Report Number: 2924447-1

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Sample Number 2424604-5
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|----------------------------------|----------------|-----------|----------|---------|---------|
| เครื่องกำเนิดไฟฟ้ากังหันก๊าซ # 5 | 120 | 31.3 | 28.5 | 37.7 | 37.7 |
| Average (WBGT) | | 31.3 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management


Supot Salamteh
Section Head

Approved by


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21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

Report Number: 2924447-1

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Sample Number 2424604-6
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|----------------------------------|----------------|-----------|----------|---------|---------|
| เครื่องกำเนิดไฟฟ้ากังหันก๊าซ # 6 | 120 | 29.5 | 27.2 | 34.9 | 34.0 |
| 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)
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21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

Report Number: 2924447-1

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Sample Number 2424604-7
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|-----------------------------|----------------|-----------|----------|---------|---------|
| หน่วยผลิตไอน้ำหลัก HRSG # 1 | 120 | 31.2 | 28.0 | 41.0 | 34.2 |
| Average (WBGT) | | 31.2 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
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21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

Report Number: 2924447-1

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Sample Number 2424604-8
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|-----------------------------|----------------|-----------|----------|---------|---------|
| หน่วยผลิตไอน้ำหลัก HRSG # 2 | 120 | 29.8 | 27.5 | 35.5 | 34.5 |
| Average (WBGT) | | 29.8 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
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21150
P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2447577

Date Received : Jun 18, 2024

Date Reported : Jun 21, 2024

Report Number: 2986196-1

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Sample Number 2447577-1
Parameter Heat Stress (Sampling Time : 02.00 PM - 04.00 PM)
Measurement Date Jun 17, 2024
Measurement by Amnat Wongsakhen
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|-----------------------------|----------------|-----------|----------|---------|---------|
| หน่วยผลิตไอน้ำหลัก HRSG # 3 | 120 | 29.6 | 28.0 | 33.6 | 33.1 |
| Average (WBGT) | | 29.6 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
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P/O : DA41002956
Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

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Sample Number 2424604-10
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|-----------------------------|----------------|-----------|----------|---------|---------|
| หน่วยผลิตไอน้ำหลัก HRSG # 4 | 120 | 30.7 | 27.8 | 37.9 | 36.6 |
| Average (WBGT) | | 30.7 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
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Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

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Sample Number 2424604-11
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|-----------------------------|----------------|-----------|----------|---------|---------|
| หน่วยผลิตไอน้ำหลัก HRSG # 5 | 120 | 30.8 | 29.0 | 35.3 | 34.4 |
| Average (WBGT) | | 30.8 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
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Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

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Sample Number 2424604-12
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|-----------------------------|----------------|-----------|----------|---------|---------|
| หน่วยผลิตไอน้ำหลัก HRSG # 6 | 120 | 30.7 | 27.8 | 37.8 | 36.6 |
| Average (WBGT) | | 30.7 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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Project Name : Monitoring
Project Location : CUP 1

Lot ID: 2424604

Date Received : Mar 07, 2024

Date Reported : Mar 08, 2024

Report Number: 2924447-1

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Sample Number 2424604-13
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Mar 07, 2024
Measurement by Nattakarn Vonginyoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : แผนก :)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|---------------------|----------------|-----------|----------|---------|---------|
| หน่วยผลิตไอน้ำสำรอง | 120 | 29.7 | 27.6 | 38.7 | 26.0 |
| Average (WBGT) | | 29.7 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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