

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report



Client : Gulf TSC Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasek, Muak Daeng, Rayong
Thailand 21140

P/O : GTS4-4210500514

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 23125265

Date Received : Dec 04, 2023

Date Reported : Dec 25, 2023

Report Number : 2817988-1C6

TESTING
No.0042

Page 1 of 1

| Sample Description | Air Quality | Sample Number | Sampled Date | Total Suspended Particulate (mg/m3) | Particulate Matter (PM-10) (mg/m3) | Barometric Pressure (mm Hg) | Atmospheric Temperature (°C) |
|-------------------------|---|---------------|--------------|-------------------------------------|------------------------------------|-----------------------------|------------------------------|
| Location | ตำแหน่งจุดเก็บตัวอย่างอากาศ | | | | | | |
| Date Analysis Commenced | Dec 04, 2023 | | | | | | |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag | | | | | | |
| Sample Number | Sampled Date | | | | | | |
| 23125265-1 | Nov 23 - Nov 24, 2023 | | | 0.083 | 0.039 | 756 | 30 |
| 23125265-2 | Nov 24 - Nov 25, 2023 | | | 0.066 | 0.021 | 756 | 29 |
| 23125265-3 | Nov 25 - Nov 26, 2023 | | | 0.108 | 0.046 | 756 | 29 |
| 23125265-4 | Nov 26 - Nov 27, 2023 | | | 0.086 | 0.033 | 756 | 29 |
| 23125265-5 | Nov 27 - Nov 28, 2023 | | | 0.105 | 0.038 | 756 | 29 |
| 23125265-6 | Nov 28 - Nov 29, 2023 | | | 0.095 | 0.043 | 756 | 29 |
| 23125265-7 | Nov 29 - Nov 30, 2023 | | | 0.135 | 0.071 | 756 | 29 |
| Guideline | | | | 0.33 | 0.12 | | |

Reference Method

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

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

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

Sampled By : Anurak Tongthajonsakda

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Analysis / Test Report



Client : Gulf TSC Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasek, Muak Daeng, Rayong
Thailand 21140

P/O : GTS4-4210500514

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 23125265

Date Received : Dec 04, 2023

Date Reported : Dec 25, 2023

Report Number : 2817988-2C6

TESTING
No.0042

Page 1 of 1

| Sample Description | Air Quality | Sample Number | Sampled Date | Total Suspended Particulate (mg/m3) | Particulate Matter (PM-10) (mg/m3) | Barometric Pressure (mm Hg) | Atmospheric Temperature (°C) |
|-------------------------|---|---------------|--------------|-------------------------------------|------------------------------------|-----------------------------|------------------------------|
| Location | ตำแหน่งจุดเก็บตัวอย่างอากาศ | | | | | | |
| Date Analysis Commenced | Dec 04, 2023 | | | | | | |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag | | | | | | |
| Sample Number | Sampled Date | | | | | | |
| 23125265-8 | Nov 23 - Nov 24, 2023 | | | 0.089 | 0.055 | 756 | 30 |
| 23125265-9 | Nov 24 - Nov 25, 2023 | | | 0.066 | 0.027 | 756 | 29 |
| 23125265-10 | Nov 25 - Nov 26, 2023 | | | 0.081 | 0.039 | 756 | 29 |
| 23125265-11 | Nov 26 - Nov 27, 2023 | | | 0.054 | 0.022 | 756 | 29 |
| 23125265-12 | Nov 27 - Nov 28, 2023 | | | 0.081 | 0.035 | 756 | 29 |
| 23125265-13 | Nov 28 - Nov 29, 2023 | | | 0.130 | 0.058 | 756 | 29 |
| 23125265-14 | Nov 29 - Nov 30, 2023 | | | 0.180 | 0.078 | 756 | 29 |
| Guideline | | | | 0.33 | 0.12 | | |

Reference Method

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

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

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

Sampled By : Anurak Tongthajonsakda

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TSI Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 23125265
Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number : 2817988-3C6

Page 1 of 1

| Sample Description | Air Quality | |
|--------------------|---|--|
| Location | ๒๖๖ | |

Reference Method

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

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

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TSI Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 23125265
Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number : 2817988-4C6

Page 1 of 1

| Sample Description | Air Quality | Location | Date Analysis Commenced | Condition of Sample | Sampled Date | Total Suspended Particulate (mg/m3) | Particulate Matter (PM-10) (mg/m3) | Barometric Pressure (mm Hg) | Atmospheric Temperature (°C) |
|--------------------|-------------|----------|-------------------------|---|--------------|-------------------------------------|------------------------------------|-----------------------------|------------------------------|
| | Traceable | | Dec 04, 2023 | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag | | | | | |
| Sample Number | | | | | | | | | |
| 23125265-22 | | | Nov 23 - Nov 24, 2023 | | | 0.065 | 0.030 | 756 | 28 |
| 23125265-23 | | | Nov 24 - Nov 25, 2023 | | | 0.057 | 0.023 | 756 | 28 |
| 23125265-24 | | | Nov 25 - Nov 26, 2023 | | | 0.093 | 0.038 | 756 | 28 |
| 23125265-25 | | | Nov 26 - Nov 27, 2023 | | | 0.045 | 0.017 | 756 | 29 |
| 23125265-26 | | | Nov 27 - Nov 28, 2023 | | | 0.050 | 0.025 | 756 | 29 |
| 23125265-27 | | | Nov 28 - Nov 29, 2023 | | | 0.063 | 0.031 | 756 | 29 |
| 23125265-28 | | | Nov 29 - Nov 30, 2023 | | | 0.075 | 0.037 | 756 | 29 |
| Guideline | | | | | | 0.33 | 0.12 | | - |

Reference Method

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

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

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Analysis / Test Report

Client: Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

| Sample Description | | Air Quality | | | | | | | |
|---------------------------|--|-----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
| Location | | บ้านสวนป่านศรีรัตนประจักษ์ | | | | | | | |
| Parameter | | Sulfur Dioxide (ppm) | | | | | | | |
| Measurement Date | | Nov 23, 2023 - Nov 30, 2023 | | | | | | | |
| Measurement by | | Anurak Tongkhajonsakda | | | | | | | |
| Time | | 2312562-8 Nov 23, 2023 | 2312562-9 Nov 24, 2023 | 2312562-10 Nov 25, 2023 | 2312562-11 Nov 26, 2023 | 2312562-12 Nov 27, 2023 | 2312562-13 Nov 28, 2023 | 2312562-14 Nov 29, 2023 | |
| 10:00 AM - 11:00 AM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | |
| 11:00 AM - 12:00 PM | | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | |
| 12:00 PM - 01:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | |
| 01:00 PM - 02:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | |
| 02:00 PM - 03:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | |
| 03:00 PM - 04:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | |
| 04:00 PM - 05:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | |
| 05:00 PM - 06:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | |
| 06:00 PM - 07:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | |
| 07:00 PM - 08:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | |
| 08:00 PM - 09:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | |
| 09:00 PM - 10:00 PM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | |
| 10:00 PM - 11:00 PM | | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | |
| 11:00 PM - 12:00 AM | | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | |
| 12:00 AM - 01:00 AM | | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | |
| 01:00 AM - 02:00 AM | | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | |
| 02:00 AM - 03:00 AM | | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | |
| 03:00 AM - 04:00 AM | | 0.002 | 0.003 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | |
| 04:00 AM - 05:00 AM | | 0.002 | 0.003 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | |
| 05:00 AM - 06:00 AM | | 0.002 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | |
| 06:00 AM - 07:00 AM | | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | |
| 07:00 AM - 08:00 AM | | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | |
| 08:00 AM - 09:00 AM | | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | |
| 09:00 AM - 10:00 AM | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | |
| Average | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | |
| 1hr - Maximum | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | |
| Standard 1hr - Average | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | |
| Standard 24 hrs - Average | | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | |
| Standard | | | | | | | | | |

Reference Method : US EPA Method Part 53 and 58

: Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

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11/11/2017

1345



Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

Lot ID: 23125262
Date Received : Dec 04, 2023
Date Reported : Dec 11, 2023
Report Number: 2860330-1C6

Page 1 of 1

| Sample Description | | Air Quality | |
|--------------------|------------------|-----------------------------|-----------------------------|
| Location | Location | Parameter | Measurement Date |
| Parameter | Parameter | Sulfur Dioxide (ppm) | Nov 23, 2023 - Nov 30, 2023 |
| Measurement Date | Measurement Date | Nov 23, 2023 - Nov 30, 2023 | Nov 23, 2023 - Nov 30, 2023 |
| Measurement by | Measurement by | Anurak Tongkhajonsakda | Anurak Tongkhajonsakda |

| Time | 23125262-15 | 23125262-16 | 23125262-17 | 23125262-18 | 23125262-19 | 23125262-20 | 23125262-21 |
|---------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|
| 12:00 PM - 01:00 PM | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 01:00 PM - 02:00 PM | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 02:00 PM - 03:00 PM | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 |
| 03:00 PM - 04:00 PM | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 |
| 04:00 PM - 05:00 PM | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 |
| 05:00 PM - 06:00 PM | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 |
| 06:00 PM - 07:00 PM | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 |
| 07:00 PM - 08:00 PM | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 |
| 08:00 PM - 09:00 PM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 09:00 PM - 10:00 PM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 10:00 PM - 11:00 PM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 |
| 11:00 PM - 12:00 AM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.004 |
| 12:00 AM - 01:00 AM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.003 |
| 01:00 AM - 02:00 AM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.003 |
| 02:00 AM - 03:00 AM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 |
| 03:00 AM - 04:00 AM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 |
| 04:00 AM - 05:00 AM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.003 | 0.002 |
| 05:00 AM - 06:00 AM | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.003 | 0.002 |
| 06:00 AM - 07:00 AM | 0.002 | 0.002 | 0.001 | 0.002 | 0.001 | 0.004 | 0.002 |
| 07:00 AM - 08:00 AM | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 |
| 08:00 AM - 09:00 AM | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 |
| 09:00 AM - 10:00 AM | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 |
| 10:00 AM - 11:00 AM | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 11:00 AM - 12:00 PM | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 |
| Average | 0.002 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 |
| 1hr - Maximum | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.004 | 0.004 |
| Standard 1hr - Average | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Standard 24 hrs - Average | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Standard | : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547). | | | | | | |
| Reference Method | : US EPA Method Part 53 and 58 | | | | | | |

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Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

Lot ID: 23125262
Date Received : Dec 04, 2023
Date Reported : Dec 11, 2023
Report Number: 2860331-1C6

Page 1 of 1

| Sample Description | | Air Quality | |
|--------------------|----------------|----------------------|-----------------------------|
| Location | Location | Parameter | Measurement Date |
| | จังหวัดขอนแก่น | Sulfur Dioxide (ppm) | Nov 23, 2023 - Nov 30, 2023 |
| | | | Anurak Tongkhajonsakda |

| Time | 23125262-22 | 23125262-23 | 23125262-24 | 23125262-25 | 23125262-26 | 23125262-27 | 23125262-28 |
|---------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|
| 09:00 AM - 10:00 AM | 0.002 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 |
| 10:00 AM - 11:00 AM | 0.002 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 |
| 11:00 AM - 12:00 PM | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.004 | 0.004 |
| 12:00 PM - 01:00 PM | 0.012 | 0.003 | 0.002 | 0.002 | 0.003 | 0.003 | 0.004 |
| 01:00 PM - 02:00 PM | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 |
| 02:00 PM - 03:00 PM | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.005 |
| 03:00 PM - 04:00 PM | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 |
| 04:00 PM - 05:00 PM | 0.002 | 0.002 | 0.002 | 0.004 | 0.004 | 0.003 | 0.003 |
| 05:00 PM - 06:00 PM | 0.002 | 0.002 | 0.003 | 0.004 | 0.004 | 0.003 | 0.003 |
| 06:00 PM - 07:00 PM | 0.002 | 0.002 | 0.006 | 0.004 | 0.003 | 0.003 | 0.003 |
| 07:00 PM - 08:00 PM | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| 08:00 PM - 09:00 PM | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| 09:00 PM - 10:00 PM | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 |
| 10:00 PM - 11:00 PM | 0.002 | 0.002 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 |
| 11:00 PM - 12:00 AM | 0.002 | 0.002 | 0.004 | 0.002 | 0.003 | 0.003 | 0.004 |
| 12:00 AM - 01:00 AM | 0.002 | 0.002 | 0.004 | 0.002 | 0.003 | 0.003 | 0.004 |
| 01:00 AM - 02:00 AM | 0.002 | 0.003 | 0.009 | 0.002 | 0.003 | 0.003 | 0.004 |
| 02:00 AM - 03:00 AM | 0.002 | 0.002 | 0.004 | 0.002 | 0.003 | 0.003 | 0.004 |
| 03:00 AM - 04:00 AM | 0.003 | 0.003 | 0.004 | 0.002 | 0.003 | 0.003 | 0.004 |
| 04:00 AM - 05:00 AM | 0.002 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 |
| 05:00 AM - 06:00 AM | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 |
| 06:00 AM - 07:00 AM | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| 07:00 AM - 08:00 AM | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | 0.004 |
| 08:00 AM - 09:00 AM | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.004 | 0.003 |
| Average | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 |
| 1hr - Maximum | 0.012 | 0.003 | 0.009 | 0.004 | 0.004 | 0.004 | 0.005 |
| Standard 1hr - Average | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Standard 24 hrs - Average | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Standard | : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547). | | | | | | |
| Reference Method | : US EPA Method Part 53 and 58 | | | | | | |

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Analysis / Test Report

Client: Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

Page 1 of 1

| Sample Description | | Air Quality | | | | | | | | | | | | |
|---|-----------|-----------------------------|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|--|--|--|--|
| Location | Parameter | Measurement Date | Ystadungpraburung wathae-haean | | | | | | | | | | | |
| Measurement by | | Nov 23, 2023 - Nov 30, 2023 | Nitrogen dioxide (ppm) | | | | | | | | | | | |
| | | | Anurak Tongthajonsakda | | | | | | | | | | | |
| Time | | | 23125259-8 | 23125259-9 | 23125259-10 | 23125259-11 | 23125259-12 | 23125259-13 | 23125259-14 | | | | | |
| | | | Nov 23, 2023 | Nov 24, 2023 | Nov 25, 2023 | Nov 26, 2023 | Nov 27, 2023 | Nov 28, 2023 | Nov 29, 2023 | | | | | |
| 10:00 AM - 11:00 AM | | <0.001 | 0.009 | 0.010 | 0.007 | 0.024 | 0.009 | 0.011 | 0.016 | | | | | |
| 11:00 AM - 12:00 PM | | 0.001 | 0.005 | 0.003 | 0.003 | 0.007 | 0.005 | 0.005 | 0.002 | | | | | |
| 12:00 PM - 01:00 PM | | <0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.008 | 0.008 | | | | | |
| 01:00 PM - 02:00 PM | | 0.002 | 0.007 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.002 | <0.001 | | | | |
| 02:00 PM - 03:00 PM | | 0.002 | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 | <0.001 | 0.001 | | | | | |
| 03:00 PM - 04:00 PM | | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 | <0.001 | <0.001 | | | | | |
| 04:00 PM - 05:00 PM | | 0.001 | 0.002 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 | 0.002 | <0.001 | | | | |
| 05:00 PM - 06:00 PM | | 0.002 | 0.001 | 0.002 | 0.002 | 0.005 | 0.003 | <0.001 | <0.001 | | | | | |
| 06:00 PM - 07:00 PM | | 0.011 | 0.001 | 0.001 | 0.001 | 0.003 | 0.001 | <0.001 | <0.001 | | | | | |
| 07:00 PM - 08:00 PM | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | <0.001 | <0.001 | | | | | |
| 08:00 PM - 09:00 PM | | 0.001 | 0.003 | 0.001 | 0.001 | 0.001 | 0.001 | <0.001 | 0.002 | | | | | |
| 09:00 PM - 10:00 PM | | 0.001 | 0.001 | 0.003 | 0.001 | 0.001 | 0.002 | <0.001 | 0.001 | | | | | |
| 10:00 PM - 11:00 PM | | 0.001 | <0.001 | 0.002 | 0.002 | 0.003 | <0.001 | <0.001 | 0.002 | | | | | |
| 11:00 PM - 12:00 AM | | <0.001 | 0.008 | 0.001 | 0.009 | 0.009 | <0.001 | <0.001 | 0.002 | | | | | |
| 12:00 AM - 01:00 AM | | <0.001 | 0.004 | 0.001 | 0.001 | 0.012 | <0.001 | 0.002 | 0.003 | | | | | |
| 01:00 AM - 02:00 AM | | <0.001 | 0.006 | 0.005 | 0.005 | 0.009 | <0.001 | 0.003 | 0.003 | | | | | |
| 02:00 AM - 03:00 AM | | 0.001 | 0.008 | 0.003 | 0.006 | 0.006 | 0.002 | 0.007 | 0.004 | | | | | |
| 03:00 AM - 04:00 AM | | 0.004 | 0.008 | 0.006 | 0.006 | 0.003 | 0.002 | 0.010 | 0.007 | | | | | |
| 04:00 AM - 05:00 AM | | 0.002 | 0.009 | 0.002 | 0.002 | 0.006 | 0.002 | 0.009 | 0.007 | | | | | |
| 05:00 AM - 06:00 AM | | 0.002 | 0.006 | 0.002 | 0.003 | 0.003 | 0.003 | 0.008 | 0.008 | | | | | |
| 06:00 AM - 07:00 AM | | 0.003 | 0.007 | 0.004 | 0.004 | 0.003 | 0.004 | 0.007 | 0.006 | | | | | |
| 07:00 AM - 08:00 AM | | 0.010 | 0.009 | 0.006 | 0.006 | 0.003 | 0.005 | 0.005 | 0.018 | | | | | |
| 08:00 AM - 09:00 AM | | 0.008 | 0.012 | 0.015 | 0.015 | 0.020 | 0.009 | 0.007 | 0.018 | | | | | |
| 09:00 AM - 10:00 AM | | 0.007 | 0.013 | 0.014 | 0.014 | 0.014 | 0.010 | 0.009 | 0.005 | | | | | |
| Average | | 0.003 | 0.005 | 0.004 | 0.004 | 0.006 | 0.003 | 0.004 | 0.004 | | | | | |
| 1hr - Maximum | | 0.011 | 0.013 | 0.015 | 0.015 | 0.024 | 0.010 | 0.011 | 0.018 | | | | | |
| Standard 1hr - Average | | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | | | | | |
| Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552). | | | | | | | | | | | | | | |
| Reference Method : US EPA Method Part 50 App. F (Chemiluminescence) | | | | | | | | | | | | | | |

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

Approved by

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0430-0171 (EMBL)



Analysis / Test Report

Client: Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

Lot ID: 23125259
Date Received : Dec 04, 2023
Date Reported : Dec 11, 2023
Report Number: 2860325-IC6

Page 1 of 1

| Sample Description | | Air Quality | | | | | | | | | |
|------------------------|----------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Location | Parameter | Nitrogen dioxide (ppm) | | | | | | | | | |
| Measurement Date | Measurement by | Nov 23, 2023 - Nov 30, 2023 | | | | | | | | | |
| Measurement by | | Anurak Tongkijjongsakda | | | | | | | | | |
| Time | | 23125259-15 | 23125259-16 | 23125259-17 | 23125259-18 | 23125259-19 | 23125259-20 | 23125259-21 | 23125259-22 | 23125259-23 | 23125259-24 |
| | | Nov 23, 2023 | Nov 24, 2023 | Nov 25, 2023 | Nov 26, 2023 | Nov 27, 2023 | Nov 28, 2023 | Nov 29, 2023 | Nov 30, 2023 | Nov 23, 2023 | Nov 24, 2023 |
| 12:00 PM - 01:00 PM | | <0.001 | <0.001 | 0.005 | 0.008 | <0.001 | <0.001 | <0.001 | <0.001 | 0.006 | 0.002 |
| 01:00 PM - 02:00 PM | | <0.001 | 0.003 | 0.004 | 0.006 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | 0.004 |
| 02:00 PM - 03:00 PM | | 0.001 | 0.006 | 0.003 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | 0.008 | 0.001 |
| 03:00 PM - 04:00 PM | | <0.001 | <0.001 | 0.003 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | 0.008 | 0.001 |
| 04:00 PM - 05:00 PM | | <0.001 | <0.001 | 0.002 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | 0.010 | 0.001 |
| 05:00 PM - 06:00 PM | | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | 0.008 | 0.001 |
| 06:00 PM - 07:00 PM | | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.010 | 0.001 |
| 07:00 PM - 08:00 PM | | 0.002 | 0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.005 | 0.002 |
| 08:00 PM - 09:00 PM | | 0.003 | 0.003 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.010 | 0.001 |
| 09:00 PM - 10:00 PM | | 0.004 | 0.002 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.020 | 0.001 |
| 10:00 PM - 11:00 PM | | 0.002 | 0.006 | 0.003 | <0.001 | <0.001 | <0.001 | 0.002 | 0.002 | 0.022 | 0.001 |
| 11:00 PM - 12:00 AM | | <0.001 | 0.008 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.019 | 0.001 |
| 12:00 AM - 01:00 AM | | <0.001 | 0.008 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.015 | 0.001 |
| 01:00 AM - 02:00 AM | | <0.001 | 0.007 | 0.004 | <0.001 | <0.001 | <0.001 | 0.001 | 0.001 | 0.008 | 0.001 |
| 02:00 AM - 03:00 AM | | 0.001 | 0.002 | 0.004 | <0.001 | <0.001 | <0.001 | 0.001 | 0.001 | 0.009 | 0.001 |
| 03:00 AM - 04:00 AM | | 0.001 | 0.002 | 0.003 | <0.001 | <0.001 | <0.001 | 0.002 | 0.002 | 0.011 | 0.001 |
| 04:00 AM - 05:00 AM | | <0.001 | 0.002 | 0.002 | <0.001 | <0.001 | <0.001 | 0.002 | 0.002 | 0.014 | 0.001 |
| 05:00 AM - 06:00 AM | | <0.001 | 0.002 | 0.002 | <0.001 | <0.001 | <0.001 | 0.001 | 0.001 | 0.016 | 0.001 |
| 06:00 AM - 07:00 AM | | 0.001 | 0.004 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.009 | 0.001 |
| 07:00 AM - 08:00 AM | | 0.002 | 0.002 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.007 | 0.001 |
| 08:00 AM - 09:00 AM | | 0.004 | 0.004 | 0.006 | <0.001 | 0.002 | 0.003 | 0.002 | 0.002 | 0.008 | 0.001 |
| 09:00 AM - 10:00 AM | | 0.004 | 0.004 | 0.006 | <0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.010 | 0.001 |
| 10:00 AM - 11:00 AM | | 0.001 | 0.004 | 0.005 | <0.001 | 0.001 | 0.001 | 0.003 | 0.003 | 0.012 | 0.001 |
| 11:00 AM - 12:00 PM | | <0.001 | 0.005 | 0.004 | <0.001 | <0.001 | <0.001 | 0.002 | 0.002 | 0.007 | 0.001 |
| Average | | 0.001 | 0.003 | 0.003 | 0.001 | <0.001 | <0.001 | 0.001 | 0.001 | 0.011 | 0.001 |
| 1hr - Maximum | | 0.004 | 0.008 | 0.006 | 0.008 | 0.002 | 0.003 | 0.003 | 0.003 | 0.022 | 0.001 |
| Standard 1hr - Average | | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 |
| Standard | | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 |
| Reference Method | | : US EPA Method Part 50 App. F (Chemiluminescence) | | | | | | | | | |

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Life Sciences

13/10/2023



Analysis / Test Report

Client: Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

Lot ID: 23125259
Date Received : Dec 04, 2023
Date Reported : Dec 11, 2023
Report Number: 2860326-IC6

Page 1 of 1

| Sample Description | | Air Quality | | | | | | | | | |
|------------------------|----------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Location | Parameter | Nitrogen dioxide (ppm) | | | | | | | | | |
| Measurement Date | Measurement by | Nov 23, 2023 - Nov 30, 2023 | | | | | | | | | |
| Measurement by | | Anurak Tongkijjongsakda | | | | | | | | | |
| Time | | 23125259-22 | 23125259-23 | 23125259-24 | 23125259-25 | 23125259-26 | 23125259-27 | 23125259-28 | 23125259-29 | 23125259-30 | 23125259-31 |
| | | Nov 23, 2023 | Nov 24, 2023 | Nov 25, 2023 | Nov 26, 2023 | Nov 27, 2023 | Nov 28, 2023 | Nov 29, 2023 | Nov 30, 2023 | Nov 01, 2023 | Nov 02, 2023 |
| 09:00 AM - 10:00 AM | | 0.006 | 0.002 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.001 |
| 10:00 AM - 11:00 AM | | 0.003 | 0.001 | 0.004 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 |
| 11:00 AM - 12:00 PM | | 0.008 | 0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| 12:00 PM - 01:00 PM | | 0.008 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| 01:00 PM - 02:00 PM | | 0.010 | <0.001 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| 02:00 PM - 03:00 PM | | 0.008 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| 03:00 PM - 04:00 PM | | 0.010 | 0.002 | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 04:00 PM - 05:00 PM | | 0.005 | 0.002 | 0.008 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 05:00 PM - 06:00 PM | | 0.010 | 0.006 | 0.004 | 0.001 | 0.003 | 0.001 | 0.002 | 0.001 | 0.002 | 0.001 |
| 06:00 PM - 07:00 PM | | 0.020 | 0.005 | 0.003 | 0.001 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 07:00 PM - 08:00 PM | | 0.022 | 0.009 | 0.006 | 0.002 | 0.003 | 0.004 | 0.002 | 0.002 | 0.002 | 0.002 |
| 08:00 PM - 09:00 PM | | 0.019 | 0.013 | 0.004 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 |
| 09:00 PM - 10:00 PM | | 0.015 | 0.008 | 0.006 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 10:00 PM - 11:00 PM | | 0.008 | 0.010 | 0.010 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 |
| 11:00 PM - 12:00 AM | | 0.009 | 0.009 | 0.013 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 |
| 12:00 AM - 01:00 AM | | 0.011 | 0.004 | 0.016 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 01:00 AM - 02:00 AM | | 0.014 | 0.002 | 0.014 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| 02:00 AM - 03:00 AM | | 0.016 | <0.001 | 0.008 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| 03:00 AM - 04:00 AM | | 0.009 | 0.001 | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| 04:00 AM - 05:00 AM | | 0.007 | 0.002 | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| 05:00 AM - 06:00 AM | | 0.008 | 0.003 | 0.006 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| 06:00 AM - 07:00 AM | | 0.010 | 0.004 | 0.004 | 0.002 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.001 |
| 07:00 AM - 08:00 AM | | 0.012 | 0.009 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 08:00 AM - 09:00 AM | | 0.007 | 0.005 | 0.004 | 0.002 | 0.003 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Average | | 0.011 | 0.004 | 0.006 | 0.001 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1hr - Maximum | | 0.022 | 0.013 | 0.016 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.002 |
| Standard 1hr - Average | | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 |
| Standard | | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 |
| Reference Method | | : US EPA Method Part 50 App. F (Chemiluminescence) | | | | | | | | | |

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Life Sciences

13/10/2023



Client : Gulf TSA Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS4

Analysis / Test Report

Lot ID: 23125264

Date Received :Dec 04, 2023
Date Reported :Dec 12, 2023
Report Number :2817985-1 C6

Page 1 of 2

Sample Number 23125264-1 to 7

Parameter Wind Speed / Wind Direction

Location ตำบลห้วยชัน อำเภอสัตหีบ

Sampling Date Nov 23 - Nov 30, 2023

Sampling by Anurak Tongkijjapansakda

| Time | Nov 23 - Nov 24, 2023 | Nov 24 - Nov 25, 2023 | Nov 25 - Nov 26, 2023 | Nov 26 - Nov 27, 2023 | Nov 27 - Nov 28, 2023 | Nov 28 - Nov 29, 2023 | Nov 29 - Nov 30, 2023 |
|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) |
| 11:00 AM - 12:00 PM | 1.1 190.0 S | 0.8 34.0 NE | 2.7 72.0 ENE | 2.0 46.0 NE | 0.7 35.0 NE | 0.7 182.0 S | 3.3 59.0 ENE |
| 12:00 PM - 01:00 PM | 2.1 247.0 WSW | 0.0 - | 1.6 66.0 ENE | 0.3 23.0 NNE | 1.1 186.0 S | 1.2 194.0 SSW | 0.9 344.0 NNW |
| 01:00 PM - 02:00 PM | 1.6 187.0 S | 0.5 236.0 SW | 0.7 143.0 SE | 1.1 49.0 NE | 0.4 139.0 SE | 0.9 189.0 S | 1.2 2.0 N |
| 02:00 PM - 03:00 PM | 2.8 250.0 WSW | 2.4 212.0 SSW | 0.0 - | 0.7 69.0 ENE | 1.8 248.0 WSW | 1.8 252.0 WSW | 1.0 62.0 ENE |
| 03:00 PM - 04:00 PM | 0.8 278.0 W | 0.4 226.0 SW | 0.0 - | 1.1 183.0 S | 1.2 253.0 WSW | 0.4 220.0 SW | 2.5 11.0 N |
| 04:00 PM - 05:00 PM | 0.3 280.0 W | 2.6 86.0 E | 0.3 224.0 SW | 0.8 101.0 E | 0.0 - | 0.6 210.0 SSW | 0.0 - |
| 05:00 PM - 06:00 PM | 0.3 39.0 NE | 0.4 292.0 WNW | 0.3 161.0 SSE | 0.4 98.0 E | 0.9 28.0 NNE | 0.3 212.0 SSW | 0.3 75.0 ENE |
| 06:00 PM - 07:00 PM | 0.4 40.0 NE | 0.0 - | 0.6 63.0 ENE | 0.3 99.0 E | 0.7 29.0 NNE | 0.5 210.0 SSW | 1.5 73.0 ENE |
| 07:00 PM - 08:00 PM | 0.0 - | 0.0 - | 0.5 63.0 ENE | 0.3 101.0 E | 0.5 16.0 NNE | 1.2 210.0 SSW | 0.6 75.0 ENE |
| 08:00 PM - 09:00 PM | 0.3 39.0 NE | 0.0 - | 1.1 38.0 NE | 0.0 - | 0.3 13.0 NNE | 0.3 210.0 SSW | 0.7 73.0 ENE |
| 09:00 PM - 10:00 PM | 0.3 2.0 N | 0.5 39.0 NE | 0.3 37.0 NE | 0.7 46.0 NE | 0.2 - | 0.3 210.0 SSW | 0.3 73.0 ENE |
| 10:00 PM - 11:00 PM | 0.3 28.0 NNE | 0.0 - | 0.3 38.0 NE | 0.0 - | 0.0 - | 1.3 208.0 SSW | 0.6 45.0 NE |
| 11:00 PM - 12:00 AM | 0.5 49.0 NE | 0.5 21.0 NNE | 0.9 37.0 NE | 0.5 35.0 NE | 0.4 33.0 NNE | 0.6 210.0 SSW | 0.6 45.0 NE |
| 12:00 AM - 01:00 AM | 0.3 45.0 NE | 0.5 100.0 E | 1.3 38.0 NE | 0.8 35.0 NE | 0.2 - | 0.5 210.0 SSW | 0.4 32.0 NNE |
| 01:00 AM - 02:00 AM | 0.6 42.0 NE | 1.1 37.0 NE | 0.4 38.0 NE | 1.5 18.0 NNE | 0.0 - | 0.0 - | 0.3 34.0 NE |
| 02:00 AM - 03:00 AM | 1.0 18.0 NNE | 0.0 - | 0.3 38.0 NE | 0.1 - | 0.8 36.0 NE | 0.4 1.0 N | 0.3 36.0 NE |
| 03:00 AM - 04:00 AM | 0.4 11.0 N | 0.0 - | 0.0 - | 0.8 27.0 NNE | 0.5 36.0 NE | 0.5 30.0 NNE | 0.0 - |
| 04:00 AM - 05:00 AM | 0.8 30.0 NNE | 0.1 - | 0.0 - | 1.6 71.0 ENE | 0.7 43.0 NE | 0.3 36.0 NE | 0.6 40.0 NE |
| 05:00 AM - 06:00 AM | 0.3 20.0 NNE | 0.0 - | 1.1 24.0 NNE | 0.4 29.0 NNE | 0.6 16.0 NNE | 0.8 15.0 NNE | 0.3 21.0 NNE |
| 06:00 AM - 07:00 AM | 2.2 26.0 NNE | 1.6 38.0 NE | 3.6 27.0 NNE | 0.2 - | 0.7 11.0 N | 0.6 30.0 NNE | 1.1 27.0 NNE |
| 07:00 AM - 08:00 AM | 0.5 105.0 ESE | 1.0 93.0 E | 1.1 47.0 NE | 0.9 79.0 E | 1.4 93.0 E | 0.9 68.0 ENE | 0.8 34.0 NE |
| 08:00 AM - 09:00 AM | 0.4 50.0 NE | 0.3 53.0 NE | 0.5 39.0 NE | 0.3 4.0 N | 1.9 45.0 NE | 1.4 359.0 N | 0.4 36.0 NE |
| 09:00 AM - 10:00 AM | 1.3 43.0 NE | 0.6 26.0 NNE | 0.9 46.0 NE | 2.1 42.0 NE | 1.9 52.0 NE | 2.3 23.0 NNE | 0.3 37.0 NE |
| 10:00 AM - 11:00 AM | 0.0 - | 0.7 29.0 NNE | 2.6 11.0 N | 0.5 74.0 ENE | 1.9 225.0 SW | 2.6 40.0 NE | 0.6 40.0 NE |

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by

Sarayuth Jitranont
Assistant General Manager



Client : Gulf TSA Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS4

Analysis / Test Report

Lot ID: 23125264

Date Received :Dec 04, 2023
Date Reported :Dec 12, 2023
Report Number :2817985-1 C6

Page 2 of 2

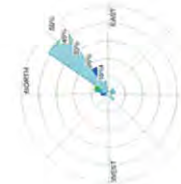
Wind Rose



Date : Nov 23-24, 2023



Date : Nov 24-25, 2023



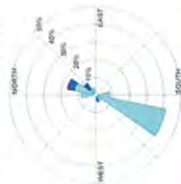
Date : Nov 25-26, 2023



Date : Nov 26-27, 2023



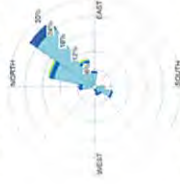
Date : Nov 27-28, 2023



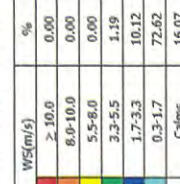
Date : Nov 28-29, 2023



Date : Nov 29-30, 2023



Date : Nov 30, 2023



Date : Nov 31, 2023

| WS(m/s) | % |
|----------|-------|
| > 10.0 | 0.00 |
| 8.0-10.0 | 0.00 |
| 5.5-8.0 | 0.00 |
| 3.3-5.5 | 1.19 |
| 1.7-3.3 | 10.12 |
| 0.3-1.7 | 72.62 |
| Calm | 16.07 |

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Gulf T&S Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 23125264

Date Received : Dec 04, 2023
Date Reported : Dec 12, 2023
Report Number : 2817985-1 C6

Sample Number : 23125264-8 to 14

Parameter : Wind Speed / Wind Direction

Location : บ้านฉางอุตสาหกรรมจังหวัดระยอง-บ้าน

Sampling Date : Nov 23 - Nov 30, 2023

Sampling by : Anurak Tongkhajonsakda

| Time | Nov 23 - Nov 24, 2023 | | Nov 24 - Nov 25, 2023 | | Nov 25 - Nov 26, 2023 | | Nov 26 - Nov 27, 2023 | | Nov 27 - Nov 28, 2023 | | Nov 28 - Nov 29, 2023 | | Nov 29 - Nov 30, 2023 | | | | | | | | |
|---------------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----|-------|-------|-------|-------|-------|------|
| | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | | | | | | | |
| 10:00 AM - 11:00 AM | 0.5 | 22.0 | NNE | 1.3 | 339.0 | NNW | 0.2 | - | 0.6 | 341.0 | NNW | 0.3 | 317.0 | NW | 0.2 | - | 2.1 | 253.0 | WSW | | |
| 11:00 AM - 12:00 PM | 0.2 | - | - | 0.2 | - | 0.6 | 352.0 | N | 0.5 | 344.0 | NNW | 1.1 | 319.0 | NW | 0.6 | 347.0 | NNW | 3.1 | 213.0 | SSW | |
| 12:00 PM - 01:00 PM | 0.1 | - | - | 0.1 | - | 0.5 | 352.0 | N | 1.1 | 333.0 | NNW | 0.5 | 234.0 | SW | 0.4 | 139.0 | SE | 2.6 | 253.0 | WSW | |
| 01:00 PM - 02:00 PM | 0.2 | - | - | 0.2 | - | 0.5 | 346.0 | NNW | 1.1 | 338.0 | NNW | 0.6 | 304.0 | NW | 0.4 | 165.0 | SSE | 2.3 | 116.0 | ESE | |
| 02:00 PM - 03:00 PM | 0.3 | 310.0 | NW | 0.9 | 331.0 | NNW | 0.2 | - | 0.7 | 221.0 | SW | 1.7 | 182.0 | S | 0.2 | - | - | - | - | - | |
| 03:00 PM - 04:00 PM | 0.6 | 311.0 | NW | 0.1 | - | 0.3 | 336.0 | NNW | 0.9 | 322.0 | NW | 0.9 | 328.0 | NNW | 1.4 | 272.0 | W | 1.4 | 184.0 | S | |
| 04:00 PM - 05:00 PM | 0.7 | 338.0 | NNW | 0.3 | 321.0 | NW | 0.1 | - | 0.8 | 305.0 | NW | 0.4 | 323.0 | NW | 0.9 | 285.0 | NNW | 1.0 | 298.0 | NNW | |
| 05:00 PM - 06:00 PM | 0.3 | 324.0 | NW | 0.5 | 314.0 | NW | 0.6 | 327.0 | NNW | 0.5 | 357.0 | N | 0.5 | 329.0 | NNW | 1.6 | 352.0 | N | 1.7 | 308.0 | NW |
| 06:00 PM - 07:00 PM | 1.0 | 324.0 | NW | 0.7 | 324.0 | NW | 0.1 | - | 0.4 | 344.0 | NNW | 0.8 | 330.0 | NNW | 1.7 | 354.0 | N | 0.5 | 178.0 | S | |
| 07:00 PM - 08:00 PM | 0.6 | 328.0 | NNW | 0.9 | 306.0 | NW | 0.2 | - | 0.6 | 332.0 | NNW | 0.6 | 324.0 | NW | 2.4 | 352.0 | N | 0.4 | 154.0 | SSE | |
| 08:00 PM - 09:00 PM | 0.9 | 290.0 | NNW | 0.3 | 323.0 | NW | 0.7 | 320.0 | NW | 0.7 | 319.0 | NW | 0.5 | 320.0 | NW | 1.1 | 332.0 | NNW | 0.5 | 351.0 | N |
| 09:00 PM - 10:00 PM | 0.0 | - | - | 0.6 | 201.0 | SSW | 1.0 | 309.0 | NW | 0.2 | - | 0.4 | 313.0 | NW | 1.0 | 345.0 | NNW | 0.9 | 368.0 | N | |
| 10:00 PM - 11:00 PM | 0.0 | - | - | 0.7 | 306.0 | NW | 0.3 | 343.0 | NNW | 0.3 | 334.0 | NNW | 0.5 | 355.0 | N | 1.3 | 324.0 | NW | 0.4 | 358.0 | N |
| 11:00 PM - 12:00 AM | 0.8 | 341.0 | NNW | 0.0 | - | 0.4 | 272.0 | W | 0.7 | 326.0 | NW | 0.5 | 357.0 | N | 1.7 | 318.0 | NW | 0.7 | 297.0 | WNNW | |
| 12:00 AM - 01:00 AM | 0.3 | 355.0 | N | 0.9 | 298.0 | WNNW | 0.1 | - | 0.6 | 323.0 | NW | 0.6 | 352.0 | N | 0.5 | 244.0 | WSW | 1.3 | 343.0 | NNW | |
| 01:00 AM - 02:00 AM | 0.6 | 164.0 | SSE | 0.2 | - | 0.2 | - | 0.2 | - | 0.5 | 319.0 | NW | 0.3 | 350.0 | N | 0.9 | 227.0 | SW | 1.3 | 32.0 | NNE |
| 02:00 AM - 03:00 AM | 0.1 | - | - | 0.8 | 299.0 | WNNW | 0.2 | - | 0.7 | 322.0 | NW | 0.5 | 350.0 | N | 0.0 | - | - | 0.3 | 79.0 | E | |
| 03:00 AM - 04:00 AM | 0.6 | 155.0 | SSE | 0.7 | 306.0 | NW | 0.6 | 262.0 | W | 0.5 | 316.0 | NW | 0.3 | 331.0 | NNW | 0.5 | 263.0 | W | 1.2 | 87.0 | E |
| 04:00 AM - 05:00 AM | 0.2 | - | - | 1.1 | 350.0 | N | 0.5 | 304.0 | NW | 0.2 | - | 0.5 | 190.0 | S | 0.2 | - | - | 0.8 | 70.0 | ENE | |
| 05:00 AM - 06:00 AM | 0.0 | - | - | 0.5 | 354.0 | N | 1.1 | 342.0 | NNW | 0.4 | 221.0 | SW | 1.8 | 256.0 | WSW | 2.2 | 313.0 | NW | 0.6 | 355.0 | N |
| 06:00 AM - 07:00 AM | 0.0 | - | - | 1.2 | 356.0 | N | 0.6 | 328.0 | NNW | 0.5 | 347.0 | NNW | 0.5 | 286.0 | NNW | 0.5 | 263.0 | W | 2.3 | 147.0 | SSE |
| 07:00 AM - 08:00 AM | 0.3 | 207.0 | SSW | 1.5 | 284.0 | WNNW | 0.8 | 353.0 | N | 0.7 | 349.0 | N | 0.4 | 322.0 | NW | 1.5 | 188.0 | S | 1.4 | 296.0 | WNNW |
| 08:00 AM - 09:00 AM | 0.8 | 119.0 | ESE | 1.8 | 345.0 | NNW | 0.3 | 267.0 | W | 0.6 | 331.0 | NNW | 0.1 | - | - | 2.3 | 126.0 | SE | 0.2 | - | - |
| 09:00 AM - 10:00 AM | 0.3 | 354.0 | N | 0.6 | 355.0 | N | 0.4 | 150.0 | SSE | 0.4 | 330.0 | NNW | 0.2 | - | - | 3.1 | 260.0 | W | 0.8 | 247.0 | WSW |

Reference Method : Cup Anemometer & Anodized Aluminum Vane Method

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Approved by

Sarayuth Jitrantorn
Assistant General Manager

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Approved by

Sarayuth Jitrantorn
Assistant General Manager



Analysis / Test Report

Client : Gulf T&S Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 23125264

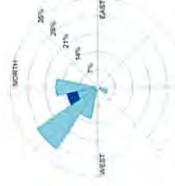
Date Received : Dec 04, 2023
Date Reported : Dec 12, 2023
Report Number : 2817985-1 C6

Page 2 of 2

Wind Rose



Date : Nov 23-24, 2023



Date : Nov 25-26, 2023



Date : Nov 27-28, 2023



Date : Nov 29-30, 2023



Date : Nov 23-24, 2023



Date : Nov 25-26, 2023

| 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 | 8.93 |
| 0.3-1.7 | 71.43 |
| Calms | 19.64 |



Client : Gulf TSA Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS4

Analysis / Test Report

Lot ID: 23125264

Date Received :Dec 04, 2023
Date Reported :Dec 12, 2023
Report Number :2817985-1 C6

Page 1 of 2

Sample Number 23125264-15 to 21

Parameter Wind Speed / Wind Direction

Location ตำบลนาหินลาด (ตำบลนาหินลาด)

Sampling Date Nov 23 - Nov 30, 2023

Sampling by Anurak Tongkhajonsakda

| Time | Nov 23 - Nov 24, 2023 | | Nov 24 - Nov 25, 2023 | | Nov 25 - Nov 26, 2023 | | Nov 26 - Nov 27, 2023 | | Nov 27 - Nov 28, 2023 | | Nov 28 - Nov 29, 2023 | | Nov 29 - Nov 30, 2023 | | | | | | | | |
|---------------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----|-----|-------|-----|-----|-------|-----|
| | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | | | | | | | |
| 12:00 PM - 01:00 PM | 1.5 | 5.0 | N | 1.7 | 39.0 | NE | 0.8 | 45.0 | NE | 2.4 | 122.0 | ESE | 2.9 | 77.0 | ENE | 1.1 | 217.0 | SW | 1.2 | 98.0 | E |
| 01:00 PM - 02:00 PM | 2.7 | 10.0 | N | 1.0 | 14.0 | NNE | 1.1 | 34.0 | NE | 2.7 | 87.0 | E | 3.3 | 13.0 | NNE | 0.5 | 225.0 | SW | 0.6 | 175.0 | S |
| 02:00 PM - 03:00 PM | 2.5 | 22.0 | NNE | 1.1 | 2.0 | N | 3.1 | 354.0 | N | 1.2 | 126.0 | SE | 1.5 | 9.0 | N | 0.5 | 254.0 | WSW | 0.4 | 187.0 | S |
| 03:00 PM - 04:00 PM | 2.7 | 32.0 | NW | 1.0 | 34.0 | NE | 0.8 | 163.0 | SSE | 3.7 | 60.0 | ENE | 1.5 | 92.0 | E | 1.2 | 136.0 | SE | 0.8 | 255.0 | WSW |
| 04:00 PM - 05:00 PM | 1.0 | 359.0 | N | 0.1 | - | - | 2.0 | 166.0 | SSE | 0.2 | - | - | 1.6 | 2.0 | N | 0.9 | 235.0 | SW | 0.7 | 229.0 | SW |
| 05:00 PM - 06:00 PM | 0.3 | 338.0 | NNW | 1.2 | 251.0 | WSW | 0.8 | 137.0 | SE | 0.8 | 230.0 | SW | 1.0 | 22.0 | NNE | 0.5 | 264.0 | W | 0.8 | 289.0 | NNW |
| 06:00 PM - 07:00 PM | 1.0 | 199.0 | SSW | 0.3 | 224.0 | SW | 0.7 | 253.0 | WSW | 0.7 | 272.0 | W | 1.6 | 33.0 | NNE | 1.6 | 185.0 | S | 1.1 | 267.0 | W |
| 07:00 PM - 08:00 PM | 0.1 | - | - | 1.5 | 224.0 | SW | 1.3 | 271.0 | W | 0.5 | 1.0 | N | 0.5 | 35.0 | NE | 0.4 | 337.0 | NNW | 0.4 | 241.0 | WSW |
| 08:00 PM - 09:00 PM | 1.6 | 226.0 | SW | 1.2 | 239.0 | WSW | 1.2 | 221.0 | SW | 1.4 | 48.0 | NE | 1.6 | 273.0 | W | 0.1 | - | - | 1.6 | 220.0 | SW |
| 09:00 PM - 10:00 PM | 1.1 | 62.0 | EHE | 1.6 | 15.0 | NNE | 1.6 | 249.0 | WSW | 0.6 | 15.0 | NNE | 1.4 | 53.0 | NE | 3.3 | 173.0 | S | 0.5 | 265.0 | W |
| 10:00 PM - 11:00 PM | 1.5 | 359.0 | N | 0.4 | 13.0 | NNE | 1.4 | 297.0 | WNW | 1.6 | 341.0 | NNW | 1.5 | 18.0 | NNE | 1.5 | 119.0 | ESE | 0.6 | 225.0 | SW |
| 11:00 PM - 12:00 AM | 2.4 | 352.0 | N | 1.3 | 49.0 | NE | 0.5 | 359.0 | N | 1.5 | 83.0 | E | 0.5 | 14.0 | NNE | 1.5 | 6.0 | N | 0.4 | 226.0 | SW |
| 12:00 AM - 01:00 AM | 0.5 | 359.0 | N | 1.2 | 359.0 | N | 0.9 | 46.0 | NE | 1.6 | 297.0 | NNW | 1.6 | 39.0 | NE | 1.6 | 34.0 | NE | 1.6 | 399.0 | N |
| 01:00 AM - 02:00 AM | 1.1 | 7.0 | N | 1.2 | 194.0 | SSW | 1.2 | 359.0 | N | 0.5 | 55.0 | NE | 1.5 | 93.0 | E | 0.5 | 359.0 | N | 1.5 | 356.0 | N |
| 02:00 AM - 03:00 AM | 0.2 | - | - | 2.1 | 359.0 | N | 0.6 | 359.0 | N | 1.6 | 359.0 | N | 0.6 | 69.0 | ENE | 1.6 | 71.0 | ENE | 1.3 | 5.0 | N |
| 03:00 AM - 04:00 AM | 2.2 | 359.0 | N | 1.2 | 324.0 | NW | 0.9 | 56.0 | NE | 0.5 | 139.0 | SE | 1.5 | 7.0 | N | 1.4 | 25.0 | NNE | 1.0 | 67.0 | ENE |
| 04:00 AM - 05:00 AM | 2.4 | 357.0 | N | 1.0 | 31.0 | NNE | 0.8 | 40.0 | NE | 1.4 | 9.0 | N | 1.4 | 343.0 | NNW | 1.3 | 359.0 | N | 0.2 | - | - |
| 05:00 AM - 06:00 AM | 1.3 | 359.0 | N | 1.2 | 1.0 | N | 0.5 | 20.0 | NNE | 0.6 | 17.0 | NNE | 1.6 | 50.0 | NE | 0.2 | - | - | 1.6 | 326.0 | NW |
| 06:00 AM - 07:00 AM | 1.0 | 34.0 | NE | 0.4 | 56.0 | NE | 0.6 | 44.0 | NE | 2.7 | 29.0 | NNE | 0.7 | 340.0 | NNW | 1.6 | 23.0 | NNE | 0.4 | 4.0 | N |
| 07:00 AM - 08:00 AM | 0.7 | 2.0 | N | 1.2 | 75.0 | ENE | 0.9 | 42.0 | NE | 1.5 | 359.0 | N | 0.4 | 2.0 | N | 0.5 | 13.0 | NNE | 2.6 | 42.0 | NE |
| 08:00 AM - 09:00 AM | 1.9 | 8.0 | N | 0.1 | - | - | 0.6 | 22.0 | NNE | 0.6 | 20.0 | NNE | 0.2 | - | - | 1.3 | 50.0 | NE | 0.7 | 17.0 | NNE |
| 09:00 AM - 10:00 AM | 2.8 | 357.0 | N | 1.1 | 42.0 | NE | 1.1 | 39.0 | NE | 0.3 | 298.0 | WNW | 1.1 | 3.0 | N | 1.1 | 359.0 | N | 1.5 | 26.0 | NNE |
| 10:00 AM - 11:00 AM | 2.6 | 346.0 | NNW | 2.0 | 26.0 | NNE | 1.8 | 359.0 | N | 0.7 | 21.0 | NNE | 1.3 | 41.0 | NE | 1.2 | 11.0 | N | 0.8 | 35.0 | NE |
| 11:00 AM - 12:00 PM | 2.3 | 26.0 | NNE | 2.6 | 73.0 | ENE | 1.6 | 5.0 | N | 0.7 | 9.0 | N | 1.4 | 33.0 | NNE | 2.2 | 0.0 | N | 2.3 | 7.0 | N |

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the wind speed (m/s) as indicated in the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuht Jitranont
Assistant General Manager

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Sarayuht Jitranont
Assistant General Manager



Client : Gulf TSA Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

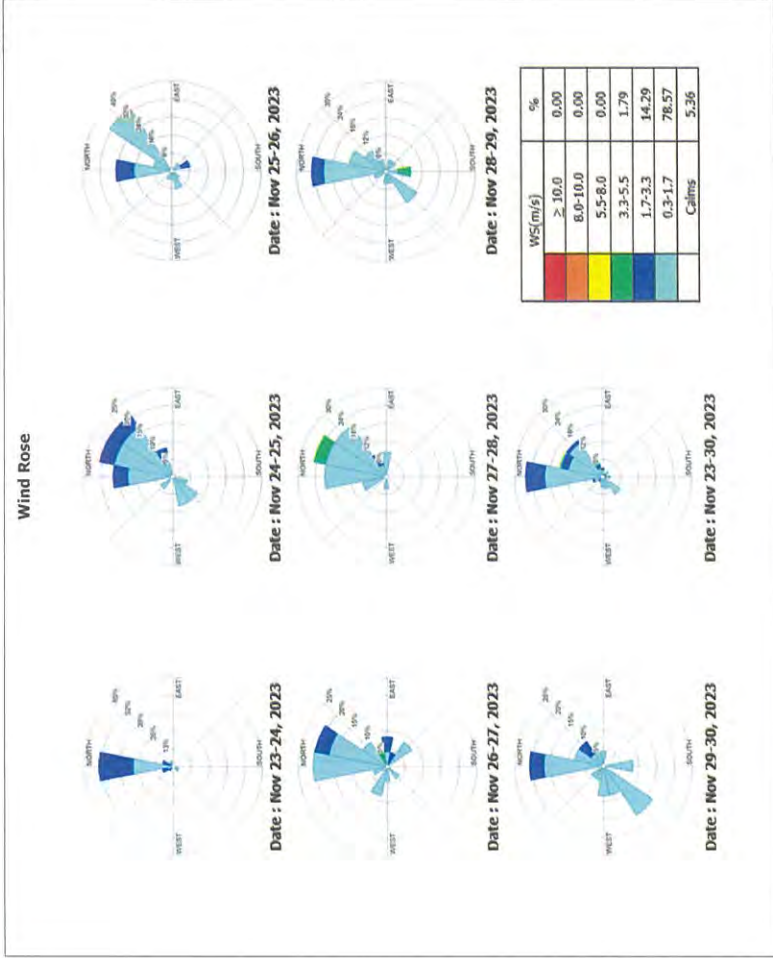
Project Location : GTS4

Analysis / Test Report

Lot ID: 23125264

Date Received :Dec 04, 2023
Date Reported :Dec 12, 2023
Report Number :2817985-1 C6

Page 2 of 2



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Approved by

Sarayuht Jitranont
Assistant General Manager



Analysis / Test Report

Client : Gulf T&S Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 23125264

Date Received : Dec 04, 2023

Date Reported : Dec 12, 2023

Report Number : 2817985-1 C6

Sample Number 23125264-22 to 28

Parameter Wind Speed / Wind Direction

Location จันทบุรี

Sampling Date Nov 23 - Nov 30, 2023

Sampling by Anurak Tongkhajonsakda

| Time | Nov 23 - Nov 24, 2023 | | Nov 24 - Nov 25, 2023 | | Nov 25 - Nov 26, 2023 | | Nov 26 - Nov 27, 2023 | | Nov 27 - Nov 28, 2023 | | Nov 28 - Nov 29, 2023 | | Nov 29 - Nov 30, 2023 | | | | | | | | |
|---------------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----|-------|-------|-----|-------|-------|-----|
| | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | WS (m/s) | WD (deg) | | | | | | | |
| 09:00 AM - 10:00 AM | 3.7 | 53.0 | NE | 1.0 | 21.0 | NNE | 2.1 | 8.0 | N | 0.5 | 107.0 | ESE | 3.3 | 357.0 | N | 1.5 | 350.0 | N | 2.1 | 311.0 | NW |
| 10:00 AM - 11:00 AM | 1.2 | 39.0 | NE | 1.0 | 348.0 | NNW | 2.0 | 22.0 | NNE | 0.0 | - | - | 1.6 | 150 | NNE | 1.7 | 22.0 | NNE | 3.0 | 26.0 | NNE |
| 11:00 AM - 12:00 PM | 1.2 | 72.0 | ENE | 0.6 | 58.0 | ENE | 1.6 | 41.0 | NE | 0.6 | 124.0 | SE | 2.5 | 11.0 | N | 0.9 | 353.0 | N | 1.9 | 359.0 | N |
| 12:00 PM - 01:00 PM | 0.6 | 63.0 | ENE | 0.8 | 35.0 | NE | 1.3 | 21.0 | NNE | 0.0 | - | - | 1.8 | 37.0 | NE | 2.3 | 25.0 | NNE | 2.2 | 47.0 | NE |
| 01:00 PM - 02:00 PM | 1.4 | 65.0 | ENE | 1.9 | 54.0 | NE | 0.8 | 13.0 | NNE | 0.6 | 5.0 | N | 1.6 | 30.0 | NNE | 1.2 | 24.0 | NNE | 1.9 | 17.0 | NNE |
| 02:00 PM - 03:00 PM | 3.3 | 58.0 | ENE | 0.5 | 52.0 | NE | 1.3 | 355.0 | N | 1.4 | 23.0 | NNE | 2.3 | 0.0 | N | 1.4 | 1.0 | N | 2.4 | 27.0 | NNE |
| 03:00 PM - 04:00 PM | 3.1 | 76.0 | ENE | 1.3 | 31.0 | NNE | 1.5 | 359.0 | N | 1.6 | 9.0 | N | 2.2 | 79.0 | E | 1.2 | 0.0 | N | 0.6 | 306.0 | NW |
| 04:00 PM - 05:00 PM | 1.2 | 76.0 | ENE | 1.2 | 75.0 | ENE | 2.2 | 352.0 | N | 1.1 | 24.0 | NNE | 3.5 | 0.0 | N | 1.8 | 0.0 | N | 1.4 | 359.0 | N |
| 05:00 PM - 06:00 PM | 1.0 | 76.0 | ENE | 0.2 | - | 1.4 | 0.0 | N | 1.5 | 21.0 | NNE | 2.7 | 19.0 | NNE | 1.5 | 359.0 | N | 1.4 | 359.0 | N | |
| 06:00 PM - 07:00 PM | 1.0 | 77.0 | ENE | 0.1 | - | 2.0 | 29.0 | NNE | 2.1 | 17.0 | NNE | 3.9 | 359.0 | N | 2.3 | 325.0 | NW | 1.6 | 322.0 | NW | |
| 07:00 PM - 08:00 PM | 0.8 | 77.0 | ENE | 0.0 | - | 2.1 | 356.0 | N | 0.0 | - | - | 1.7 | 349.0 | N | 2.2 | 0.0 | N | 0.8 | 2.0 | N | |
| 08:00 PM - 09:00 PM | 0.8 | 78.0 | ENE | 0.2 | - | 2.0 | 350.0 | N | 0.0 | - | - | 1.6 | 17.0 | NNE | 2.8 | 328.0 | NNW | 2.4 | 352.0 | N | |
| 09:00 PM - 10:00 PM | 1.0 | 78.0 | ENE | 0.7 | 28.0 | NNE | 2.2 | 10.0 | N | 2.0 | 26.0 | NNE | 3.3 | 357.0 | N | 1.7 | 16.0 | NNE | 1.4 | 359.0 | N |
| 10:00 PM - 11:00 PM | 0.5 | 76.0 | ENE | 0.0 | - | 4.0 | 9.0 | N | 0.5 | 347.0 | NNW | 2.6 | 3.0 | N | 1.3 | 355.0 | N | 1.5 | 2.0 | N | |
| 11:00 PM - 12:00 AM | 0.4 | 75.0 | ENE | 0.5 | 2.0 | N | 1.0 | 2.0 | N | 3.2 | 61.0 | ENE | 2.4 | 41.0 | NE | 2.3 | 350.0 | N | 0.5 | 0.0 | N |
| 12:00 AM - 01:00 AM | 0.6 | 76.0 | ENE | 0.8 | 95.0 | NE | 1.2 | 0.0 | N | 2.8 | 5.0 | N | 6.1 | 348.0 | NNW | 5.1 | 13.0 | NNE | 1.1 | 351.0 | N |
| 01:00 AM - 02:00 AM | 1.2 | 77.0 | ENE | 0.6 | 54.0 | NE | 2.1 | 355.0 | N | 3.4 | 46.0 | NE | 4.5 | 359.0 | N | 2.7 | 356.0 | N | 3.9 | 359.0 | N |
| 02:00 AM - 03:00 AM | 0.5 | 28.0 | NNE | 0.0 | - | 2.3 | 0.0 | N | 1.0 | 15.0 | NNE | 4.7 | 345.0 | NNW | 1.3 | 11.0 | N | 2.5 | 0.0 | N | |
| 03:00 AM - 04:00 AM | 0.6 | 35.0 | NE | 0.4 | 27.0 | NNE | 2.9 | 339.0 | NNW | 2.6 | 18.0 | NNE | 3.4 | 18.0 | NNE | 3.0 | 8.0 | N | 4.1 | 355.0 | N |
| 04:00 AM - 05:00 AM | 0.4 | 52.0 | NE | 1.2 | 53.0 | NE | 0.2 | - | 2.8 | 25.0 | NNE | 3.5 | 342.0 | NNW | 1.7 | 53.0 | NE | 2.9 | 339.0 | NNW | |
| 05:00 AM - 06:00 AM | 0.7 | 349.0 | N | 0.8 | 34.0 | NE | 2.2 | 26.0 | NNE | 3.5 | 8.0 | N | 2.6 | 357.0 | N | 2.5 | 3.0 | N | 2.1 | 10.0 | N |
| 06:00 AM - 07:00 AM | 0.7 | 30.0 | NNE | 1.3 | 17.0 | NNE | 1.6 | 9.0 | N | 4.3 | 29.0 | NNE | 2.8 | 359.0 | N | 4.1 | 10.0 | N | 1.5 | 280.0 | W |
| 07:00 AM - 08:00 AM | 2.5 | 51.0 | NE | 1.0 | 52.0 | NE | 1.1 | 24.0 | NNE | 2.4 | 0.0 | N | 1.5 | 21.0 | NNE | 4.9 | 16.0 | NNE | 1.3 | 44.0 | NE |
| 08:00 AM - 09:00 AM | 0.6 | 5.0 | N | 1.7 | 44.0 | NE | 1.5 | 21.0 | NNE | 2.3 | 37.0 | NE | 2.5 | 347.0 | NNW | 2.3 | 0.0 | N | 2.1 | 350.0 | N |

Reference Method : Cup Anemometer & Anemometer Vane Method

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Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Gulf T&S Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS4

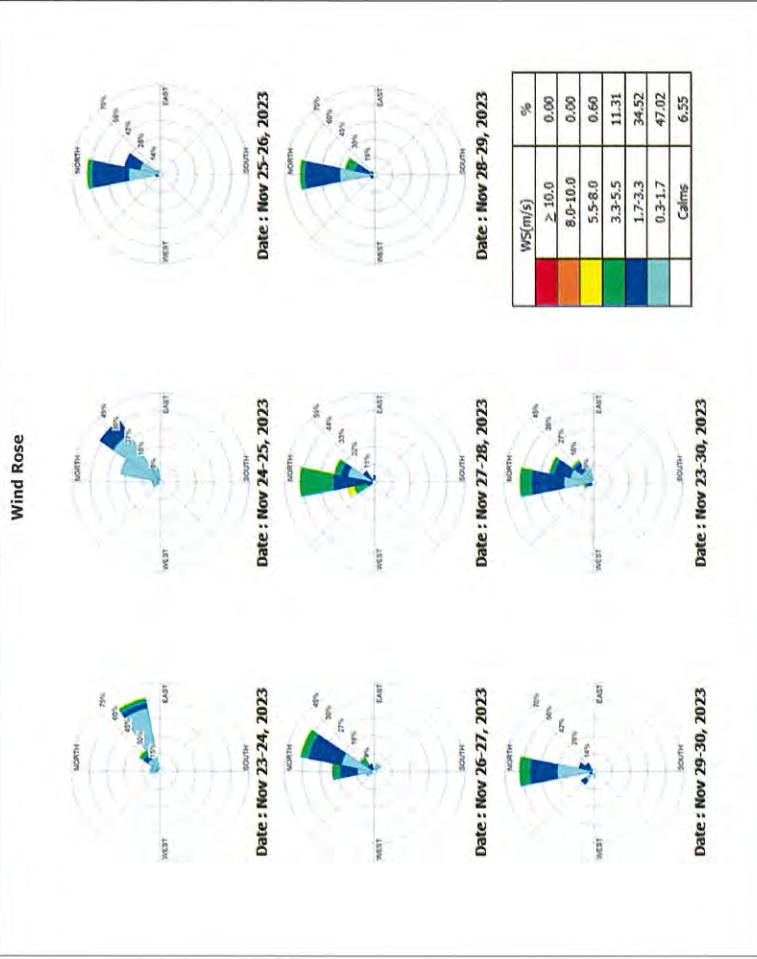
Lot ID: 23125264

Date Received : Dec 04, 2023

Date Reported : Dec 12, 2023

Report Number : 2817985-1 C6

Page 2 of 2



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Approved by

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Assistant General Manager

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ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบายอากาศ




Analysis / Test Report

Client : Gulf T&S Co., Ltd.
 225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phuk Daeng, Rayong
 Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4
Lot ID: 23125319
 Date Received : Nov 28, 2023
 Date Reported : Dec 11, 2023
 Report Number : 2818106-1

Page 1 of 1

| | | | | | | | | | | |
|---------------------|--|---------------------|-------------------|--------------------|--|----------------------|--------|--------|--|--|
| Sample Number | 23125319-1 | | | | | | | | | |
| Sample Description | Emission from Stationary Source | | | | | | | | | |
| Location | Alfaat HRSG 11 | | | | | | | | | |
| Measurement Date | Nov 28, 2023 | | | | | | | | | |
| | Stack Description | | | | | | | | | |
| Ambient Temperature | 32 | °C | Diameter | 3.00 | m | Oxygen | 14.30 | % | | |
| Ambient Pressure | 751 | mmHg | Shape | Circle | | Carbon dioxide | 3.72 | % | | |
| Type of Process | Combustion | | Stack Temperature | 124 | °C | Gas Velocity | 16.75 | m/s | | |
| Type of Fuel | Natural Gas | | Moisture | 8.75 | % | Flow Rate | 288410 | Nm3/hr | | |
| | Run No. | Sampling Time | Oxygen (%) | Carbon Dioxide (%) | Carbon Monoxide at Actual O ₂ | At 7% O ₂ | | | | |
| | 1 | 12:40 PM - 01:00 PM | 14.30 | 3.73 | 1.49 | 3.13 | | | | |
| | 2 | 01:01 PM - 01:21 PM | 14.29 | 3.72 | 1.21 | 2.54 | | | | |
| | 3 | 01:22 PM - 01:42 PM | 14.31 | 3.71 | 1.13 | 2.38 | | | | |
| | Average (ppm) | | 14.30 | 3.72 | 1.28 | 2.69 | | | | |
| | Guideline (ppm) | | | | - | 690 | | | | |
| | Result (mg/Nm ³) | | | | 1.46 | 3.08 | | | | |
| | Emission Rate at Actual O ₂ (g/s) | | | | | 0.1170 | | | | |
| | Method | | | | | US EPA Method 10 | | | | |

Sakshi Phakphasit
Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D,
dated December 4, 2006 (B.E. 2549)

| | |
|--|---|
|  Wichan Choonharat Manager | Approved by Sarayuth Jitranont Assistant General Manager โทรศัพท์ ๖-204-๑-4702 |
|--|---|

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand
21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4

TESTING
No.0042
Lot ID: 23125330
Date Received : Nov 28, 2023
Date Reported : Dec 06, 2023
Report Number: 2818115-1

Page 1 of 2

Sample Number 23125330-1
Sample Date Nov 28, 2023
Sample Description Emission from Stationary Source
Location Ulaa HRSG 11
Date Analysis Commenced Nov 30, 2023
Condition of Sample Extracted into one filter paper placed in plastic pain dish and one plastic bottle

| Stack Description | | | | | | | | | |
|---------------------|--------------|------|-------------------|---|----------------|-----------------------|--------|------------------|--|
| Ambient Pressure | 751 | mmHg | 3.00 | m | Oxygen | 14.3 | % | | |
| Ambient Temperature | 32.0 | °C | Circle | | Carbon Dioxide | 3.7 | % | | |
| Type of Process | Combustion | | Stack Temperature | 124 | °C | Gas Velocity | 16.7 | m/s | |
| Type of Fuel | Natural Gas | | Moisture | 8.75 | % | Flow Rate (Actual O2) | 287632 | Nm3/hr | |
| Analyte | Sampled Time | Unit | LOQ | Result | Guideline | Method | | Testing Location | |
| | | | (LOR) | at 17 % O ₂ at 14.3 % O ₂ | (1) | (2) | | | |

Air Testing
Total Suspended Particulate 12:50 PM - 01:28 PM mg/m3 0.5 <0.5 <0.5 28 60 United States Environmental Protection Agency, EPA Method 5

Guideline :
Guideline (1) Environmental Impact Assessment Report of Gulf T54 Co., Ltd.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management *Tharitat.* Approved by *Dhanu*
Thanita Kulsunwong
Scientist (1)
wutiduanai 3-323-a-9447
Dej Changchon
Senior Manager
wutiduanai 3-323-a-9442

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ALSTHAI (PUBLIC) COMPANY LIMITED 1117 An AIS Limited Company

Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand
21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4

TESTING
No.0042
Lot ID: 23125330
Date Received : Nov 28, 2023
Date Reported : Dec 06, 2023
Report Number: 2818115-1

Page 2 of 2

Sample Number 23125330-1
Sample Date Nov 28, 2023
Sample Description Emission from Stationary Source
Location Ulaa HRSG 11
Date Analysis Commenced Nov 30, 2023
Condition of Sample Extracted into one filter paper placed in plastic pain dish and one plastic bottle

| Stack Description | | | | | | | | | |
|---------------------|--------------|------|-------------------|---------------|----------------|-----------------------|--------|------------------|--|
| Ambient Pressure | 751 | mmHg | 3.00 | m | Oxygen | 14.3 | % | | |
| Ambient Temperature | 32.0 | °C | Circle | | Carbon Dioxide | 3.7 | % | | |
| Type of Process | Combustion | | Stack Temperature | 124 | °C | Gas Velocity | 16.7 | m/s | |
| Type of Fuel | Natural Gas | | Moisture | 8.75 | % | Flow Rate (Actual O2) | 287632 | Nm3/hr | |
| Analyte | Sampled Time | Unit | LOQ | Result | Guideline | Method | | Testing Location | |
| | | | (LOR) | Emission Rate | (1) | (2) | | | |

Air Testing
Total Suspended Particulate 12:50 PM - 01:28 PM g/s . <0.040 1.8 - Calculated Rayong

Guideline :
Guideline (1) Environmental Impact Assessment Report of Gulf T54 Co., Ltd.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Sampled By : Sitipann Sanachiw

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

Technical Management *Tharitat.* Approved by *Dhanu*
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Scientist (1)
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Dej Changchon
Senior Manager
wutiduanai 3-323-a-9442

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ALSTHAI (PUBLIC) COMPANY LIMITED 1117 An AIS Limited Company



Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

Lot ID: 23125320
Date Received : Nov 28, 2023
Date Reported : Dec 11, 2023
Report Number : 2818107-1

P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTSA

Page 1 of 1

| | |
|---------------------------|---------------------------------|
| Sample Number | 23125320-1 |
| Sample Description | Emission from Stationary Source |
| Location | Ulaa HRSG 12 |
| Measurement Date | Nov 28, 2023 |

| Run No. | Sampling Time | Carbon Dioxide | | | Oxides of Nitrogen (ppm) | | | Sulfur Dioxide (ppm) | | |
|--|---------------------|----------------|--------------------|--------------------------|--------------------------|----------------------|--------------------------|--------------------------|----------------------|--------------------------|
| | | Oxygen (%) | Carbon Dioxide (%) | at Actual O ₂ | at Actual O ₂ | at 7% O ₂ | at Actual O ₂ | at Actual O ₂ | at 7% O ₂ | at Actual O ₂ |
| 1 | 02:40 PM - 03:00 PM | 14.30 | 3.71 | 17.44 | 36.76 | 0.17 | 0.35 | 0.17 | 0.35 | 0.35 |
| 2 | 03:01 PM - 03:21 PM | 14.40 | 3.65 | 17.95 | 36.42 | 0.19 | 0.41 | 0.19 | 0.41 | 0.41 |
| 3 | 03:22 PM - 03:42 PM | 14.36 | 3.67 | 18.50 | 39.30 | 0.17 | 0.37 | 0.17 | 0.37 | 0.37 |
| Average (ppm) | | 14.35 | 3.68 | 17.97 | 38.16 | 0.18 | 0.38 | 0.18 | 0.38 | 0.38 |
| Guideline ¹ (ppm) | | | | | 60 | | 6 | | | 6 |
| Guideline ² (ppm) | | | | | 120 | | 20 | | | 20 |
| Result (mg/Nm ³) | | | | 33.80 | 71.79 | 0.46 | 0.99 | 0.46 | 0.99 | 0.99 |
| Emission Rate at Actual O ₂ (g/s) | | | | 2.8200 | | | 0.0387 | | | 0.0387 |
| Guideline ³ (g/s) | | | | 7.4 | | | 1.0 | | | 1.0 |
| Method | | | | US EPA Method 7E | | | US EPA Method 6C | | | US EPA Method 6C |

Sampled By : Saisit Phasanshuat
Guideline : Environmental Impact Assessment Report of Gulf T&A Co., Ltd.
Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

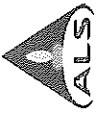
Technical Management
Wichan Choonharat
Manager
วณิชาน ชูชนารัต ๖-204-๕-6113

Approved by
Sarayuth Jitranont
Assistant General Manager
วณิชาน ชูชนารัต ๖-204-๕-4702

(Signature)

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Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

Lot ID: 23125320
Date Received : Nov 28, 2023
Date Reported : Dec 11, 2023
Report Number : 2818107-1

P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTSA

Page 1 of 1

| | |
|---------------------------|---------------------------------|
| Sample Number | 23125320-1 |
| Sample Description | Emission from Stationary Source |
| Location | Ulaa HRSG 12 |
| Measurement Date | Nov 28, 2023 |

| Run No. | Sampling Time | Carbon Dioxide | | | Carbon Monoxide (ppm) | | |
|--|---------------------|----------------|--------------------|--------------------------|--------------------------|----------------------|--------------------------|
| | | Oxygen (%) | Carbon Dioxide (%) | at Actual O ₂ | at Actual O ₂ | at 7% O ₂ | at Actual O ₂ |
| 1 | 02:40 PM - 03:00 PM | 14.30 | 3.71 | 0.76 | 1.61 | | |
| 2 | 03:01 PM - 03:21 PM | 14.40 | 3.65 | 0.62 | 1.32 | | |
| 3 | 03:22 PM - 03:42 PM | 14.36 | 3.67 | 0.58 | 1.23 | | |
| Average (ppm) | | 14.35 | 3.68 | 0.65 | 1.39 | | |
| Guideline (ppm) | | | | | 690 | | |
| Result (mg/Nm ³) | | | | 0.75 | 1.59 | | |
| Emission Rate at Actual O ₂ (g/s) | | | | 0.0824 | | | |
| Method | | | | US EPA Method 10 | | | |

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

Technical Management
Wichan Choonharat
Manager
วณิชาน ชูชนารัต ๖-204-๕-6113

Approved by
Sarayuth Jitranont
Assistant General Manager
วณิชาน ชูชนารัต ๖-204-๕-4702

(Signature)

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong Thailand
21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4

TESTING
No.0042
Lot ID: 23125336

Date Received : Nov 28, 2023
Date Reported : Dec 06, 2023
Report Number: 2818116-1

Page 1 of 2

Sample Number 23125336-1
Sample Date Nov 28, 2023
Sample Description Emission from Stationary Source
Location Ulaa HRSG 12
Date Analysis Commenced Nov 30, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

| Stack Description | | | | | | | | | |
|---------------------|--------------|------|-------------------|--|-----------|-----------------------|--------|------------------|--|
| Ambient Pressure | 751 | mmHg | Diameter | 3.00 | m | Oxygen | 14.4 | % | |
| Ambient Temperature | 32.0 | °C | Shape | Circle | | Carbon Dioxide | 3.7 | % | |
| Type of Process | Combustion | | Stack Temperature | 120 | °C | Gas Velocity | 17.2 | m/s | |
| Type of Fuel | Natural Gas | | Moisture | 8.46 | % | Flow Rate (Actual O2) | 299815 | Nm3/hr | |
| Analyte | Sampled Time | Unit | LOQ | Result | Guideline | Method | | Testing Location | |
| | | | (LOR) | (% O ₂ at 14.4 % O ₂) | (%) | (2) | | | |

Air Testing
Total Suspended Particulate 02:40 PM - 03:28 PM mg/m3 0.5 <0.5 <0.5 28 60 United States Environmental Protection Agency, EPA Method 5

Guideline :
Guideline (1) Environmental Impact Assessment Report of Gulf T54 Co., Ltd.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management *Thanitak.* Approved by *D. J. J.*
Thanita Kulsuwiang
Scientist (4)
wtidmduard 3-323-a-9447
Dej Changchon
Senior Manager
wtidmduard 3-323-a-9442

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ANALYTICAL CAPACITY: CRAMP/THAILAND/ANALYTICAL LTD. An ALS Limited Company

Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong Thailand
21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4

TESTING
No.0042
Lot ID: 23125336

Date Received : Nov 28, 2023
Date Reported : Dec 06, 2023
Report Number: 2818116-1

Page 2 of 2

Sample Number 23125336-1
Sample Date Nov 28, 2023
Sample Description Emission from Stationary Source
Location Ulaa HRSG 12
Date Analysis Commenced Nov 30, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

| Stack Description | | | | | | | | | |
|---------------------|--------------|------|-------------------|--------|-----------|-----------------------|--------|------------------|--|
| Ambient Pressure | 751 | mmHg | Diameter | 3.00 | m | Oxygen | 14.4 | % | |
| Ambient Temperature | 32.0 | °C | Shape | Circle | | Carbon Dioxide | 3.7 | % | |
| Type of Process | Combustion | | Stack Temperature | 120 | °C | Gas Velocity | 17.2 | m/s | |
| Type of Fuel | Natural Gas | | Moisture | 8.46 | % | Flow Rate (Actual O2) | 299815 | Nm3/hr | |
| Analyte | Sampled Time | Unit | LOQ | Result | Guideline | Method | | Testing Location | |
| | | | (LOR) | (%) | (%) | (2) | | | |

Air Testing
Total Suspended Particulate 02:40 PM - 03:28 PM g/s 0.042 <0.042 1.8 Calculated Rayong

Guideline :
Guideline (1) Environmental Impact Assessment Report of Gulf T54 Co., Ltd.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Sampled By : Sittipan Sanachiv

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 *Thanitak.* Approved by *D. J. J.*
Thanita Kulsuwiang
Scientist (4)
wtidmduard 3-323-a-9447
Dej Changchon
Senior Manager
wtidmduard 3-323-a-9442

Result 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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ANALYTICAL CAPACITY: CRAMP/THAILAND/ANALYTICAL LTD. An ALS Limited Company

ภาคผนวก ค-3

ระดับเสียงโดยทั่วไป



TESTING
No.0042

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasat, Pluak Daeng, Rayong Thailand 21140
Lot ID: 23125315
Date Received : Dec 04, 2023
Date Reported : Dec 07, 2023
Report Number: 2857346-1

Analysis / Test Report

P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125315-1 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | บริเวณด้านหน้าโรงงาน |
| Measurement Date | Nov 23 - Nov 24, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 296518 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 59.7 | 69.7 | 59.0 |
| 11:00 AM - 12:00 PM | 59.6 | 64.7 | 58.9 |
| 12:00 PM - 01:00 PM | 62.8 | 70.3 | 60.7 |
| 01:00 PM - 02:00 PM | 62.0 | 67.6 | 61.1 |
| 02:00 PM - 03:00 PM | 61.9 | 65.6 | 61.1 |
| 03:00 PM - 04:00 PM | 61.9 | 68.6 | 61.2 |
| 04:00 PM - 05:00 PM | 63.0 | 79.4 | 61.6 |
| 05:00 PM - 06:00 PM | 63.2 | 80.6 | 61.7 |
| 06:00 PM - 07:00 PM | 62.5 | 65.4 | 61.9 |
| 07:00 PM - 08:00 PM | 62.3 | 66.8 | 61.7 |
| 08:00 PM - 09:00 PM | 62.3 | 66.3 | 62.0 |
| 09:00 PM - 10:00 PM | 62.7 | 65.0 | 62.2 |
| 10:00 PM - 11:00 PM | 62.6 | 67.0 | 62.0 |
| 11:00 PM - 12:00 AM | 62.0 | 71.2 | 60.9 |
| 12:00 AM - 01:00 AM | 60.9 | 63.2 | 60.3 |
| 01:00 AM - 02:00 AM | 60.9 | 64.5 | 60.2 |
| 02:00 AM - 03:00 AM | 61.0 | 64.3 | 60.4 |
| 03:00 AM - 04:00 AM | 60.6 | 64.2 | 60.0 |
| 04:00 AM - 05:00 AM | 61.0 | 63.7 | 60.3 |
| 05:00 AM - 06:00 AM | 61.2 | 64.5 | 60.4 |
| 06:00 AM - 07:00 AM | 61.4 | 70.9 | 60.6 |
| 07:00 AM - 08:00 AM | 61.5 | 70.7 | 60.5 |
| 08:00 AM - 09:00 AM | 61.5 | 65.4 | 60.6 |
| 09:00 AM - 10:00 AM | 61.9 | 66.0 | 60.8 |
| Leq Average 24 hrs. (dB(A)) | 61.8 | | |
| Lmax (dB(A)) | 80.6 | | |
| L90 (dB(A)) | | | 60.7 |
| Ldn (dB(A)) | 67.9 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO1996-1 and 1996-2
Standard 1. ใช้มาตรฐานการวัดระดับความดังของเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดการรบกวนเสียงในสถานที่
2. ใช้มาตรฐานการประเมินการรบกวนเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดการรบกวนเสียงในสถานที่

รายงาน พ.ศ. 2548

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

Technical Management

Thanitak.

Thantak Kulsuwong
Scientist (4)

Approved by

Supt S.

Supot Salameteh
Section Head

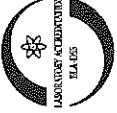
ANALYST : 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand TEL : 09-000-4660-3304 8555 FAX : 066 0 3304 8556
ALSO : 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand TEL : 09-000-4660-3304 8555 FAX : 066 0 3304 8556

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RIGHT SOLUTIONS

13431-617 ENVI

5 Reports_Air/Noise ref (14/FM)



TESTING
No.0042

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasat, Pluak Daeng, Rayong Thailand 21140
Lot ID: 23125315
Date Received : Dec 04, 2023
Date Reported : Dec 07, 2023
Report Number: 2857347-1

Analysis / Test Report

P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125315-2 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | บริเวณด้านหน้าโรงงาน |
| Measurement Date | Nov 24 - Nov 25, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 296518 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 62.1 | 67.6 | 60.9 |
| 11:00 AM - 12:00 PM | 61.9 | 66.2 | 60.5 |
| 12:00 PM - 01:00 PM | 63.1 | 69.0 | 60.3 |
| 01:00 PM - 02:00 PM | 62.0 | 66.8 | 60.7 |
| 02:00 PM - 03:00 PM | 68.3 | 80.7 | 61.7 |
| 03:00 PM - 04:00 PM | 77.8 | 95.5 | 61.7 |
| 04:00 PM - 05:00 PM | 62.4 | 74.2 | 61.4 |
| 05:00 PM - 06:00 PM | 62.5 | 74.5 | 61.5 |
| 06:00 PM - 07:00 PM | 62.5 | 66.0 | 61.7 |
| 07:00 PM - 08:00 PM | 62.0 | 64.8 | 61.5 |
| 08:00 PM - 09:00 PM | 62.0 | 64.8 | 61.4 |
| 09:00 PM - 10:00 PM | 62.1 | 65.0 | 61.5 |
| 10:00 PM - 11:00 PM | 62.1 | 65.7 | 61.5 |
| 11:00 PM - 12:00 AM | 61.5 | 70.8 | 59.2 |
| 12:00 AM - 01:00 AM | 59.3 | 62.2 | 58.8 |
| 01:00 AM - 02:00 AM | 59.5 | 63.5 | 59.0 |
| 02:00 AM - 03:00 AM | 59.8 | 62.9 | 59.2 |
| 03:00 AM - 04:00 AM | 59.5 | 61.8 | 59.0 |
| 04:00 AM - 05:00 AM | 59.8 | 64.1 | 59.3 |
| 05:00 AM - 06:00 AM | 59.7 | 63.8 | 59.2 |
| 06:00 AM - 07:00 AM | 60.0 | 70.6 | 59.3 |
| 07:00 AM - 08:00 AM | 60.5 | 72.9 | 59.6 |
| 08:00 AM - 09:00 AM | 60.1 | 73.4 | 59.3 |
| 09:00 AM - 10:00 AM | 60.2 | 70.1 | 59.4 |
| Leq Average 24 hrs. (dB(A)) | 66.0 | | |
| Lmax (dB(A)) | 95.5 | | |
| L90 (dB(A)) | | | 60.3 |
| Ldn (dB(A)) | 68.8 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO1996-1 and 1996-2
Standard 1. ใช้มาตรฐานการวัดระดับความดังของเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดการรบกวนเสียงในสถานที่
2. ใช้มาตรฐานการประเมินการรบกวนเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดการรบกวนเสียงในสถานที่

รายงาน พ.ศ. 2548

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

Technical Management

Thanitak.

Thantak Kulsuwong
Scientist (4)

Approved by

Supt S.

Supot Salameteh
Section Head

ANALYST : 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand TEL : 09-000-4660-3304 8555 FAX : 066 0 3304 8556
ALSO : 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand TEL : 09-000-4660-3304 8555 FAX : 066 0 3304 8556

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RIGHT SOLUTIONS

13431-617 ENVI

5 Reports_Air/Noise ref (14/FM)

5 Reports_Air/Noise ref (14/FM)



Analysis / Test Report

TESTING
No.0042

Client : Gulf Tisa Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasti, Pluak Daeng, Rayong Thailand 21140
Lot ID: 23125315
Date Received : Dec 04, 2023
Date Reported : Dec 07, 2023
P/O : 4210502169
Report Number: 2857349-1
Project Name : Monitoring EIA

Page 1 of 1

| | | | |
|-------------------|------------------------|-------------|--------------|
| Sample Number | 23125315-4 | | |
| Parameter | Noise (Leq 24 hrs.) | | |
| Location | ufoaduf52sany5 | | |
| Measurement Date | Nov 26 - Nov 27, 2023 | | |
| Measurement by | Anurak Tongkhajonsakda | | |
| Sound Level meter | Serial No. 296518 | | |
| | Time | Leq (dB(A)) | Lmax (dB(A)) |
| | 10:00 AM - 11:00 AM | 61.8 | 71.3 |
| | 11:00 AM - 12:00 PM | 61.7 | 69.1 |
| | 12:00 PM - 01:00 PM | 61.6 | 65.7 |
| | 01:00 PM - 02:00 PM | 61.9 | 67.4 |
| | 02:00 PM - 03:00 PM | 62.1 | 73.5 |
| | 03:00 PM - 04:00 PM | 62.0 | 69.4 |
| | 04:00 PM - 05:00 PM | 63.8 | 71.5 |
| | 05:00 PM - 06:00 PM | 62.3 | 75.6 |
| | 06:00 PM - 07:00 PM | 61.7 | 67.2 |
| | 07:00 PM - 08:00 PM | 61.8 | 65.0 |
| | 08:00 PM - 09:00 PM | 62.2 | 65.5 |
| | 09:00 PM - 10:00 PM | 62.3 | 70.8 |
| | 10:00 PM - 11:00 PM | 59.4 | 63.4 |
| | 11:00 PM - 12:00 AM | 59.7 | 61.9 |
| | 12:00 AM - 01:00 AM | 59.6 | 62.6 |
| | 01:00 AM - 02:00 AM | 59.3 | 61.8 |
| | 02:00 AM - 03:00 AM | 59.3 | 62.4 |
| | 03:00 AM - 04:00 AM | 59.3 | 62.1 |
| | 04:00 AM - 05:00 AM | 59.7 | 64.6 |
| | 05:00 AM - 06:00 AM | 59.9 | 66.0 |
| | 06:00 AM - 07:00 AM | 60.7 | 70.6 |
| | 07:00 AM - 08:00 AM | 61.1 | 79.3 |
| | 08:00 AM - 09:00 AM | 60.6 | 70.1 |
| | 09:00 AM - 10:00 AM | 60.8 | 71.8 |

| | | |
|-----------------------------|------|------|
| Leq Average 24 hrs. (dB(A)) | 61.2 | |
| Lmax (dB(A)) | | 79.3 |
| L90 (dB(A)) | | |
| L50 (dB(A)) | | |
| L10 (dB(A)) | 66.5 | |
| Ldn (dB(A)) | | |
| Standard (dB(A)) | 70 | 115 |

Reference Method : ISO1996-1 and 1996-2

Standard : 1. กรมควบคุมมลพิษ (พ.ศ. 2540) เรื่องการควบคุมการปล่อยเสียงจากโรงงานอุตสาหกรรม
2. กรมควบคุมมลพิษ (พ.ศ. 2540) เรื่องการควบคุมการปล่อยเสียงจากยานพาหนะ

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

Sept 5

Approved by

Supot Salameh
Section Head

ADVERTISEMENTS: 616/10 Moo 5 T Maenam Khu A, Phukdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALSTAMPING GROUP (THAI) CO., LTD. An ALS Limited Company

www-alsglobal.com

13131-61/EMAN

S:\Reports\Air Noise.mxd (1:48 PM)



Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT54

Lot ID: 23125315
Date Received : Dec 04, 2023
Date Reported : Dec 07, 2023
Report Number: 2857350-1

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125315-5 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | บริเวณด้านหน้าโรงงาน |
| Measurement Date | Nov 27 - Nov 28, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 296518 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 60.9 | 70.3 | 60.0 |
| 11:00 AM - 12:00 PM | 60.4 | 71.3 | 59.6 |
| 12:00 PM - 01:00 PM | 63.5 | 71.9 | 61.5 |
| 01:00 PM - 02:00 PM | 62.3 | 67.0 | 61.3 |
| 02:00 PM - 03:00 PM | 62.4 | 67.6 | 61.7 |
| 03:00 PM - 04:00 PM | 62.7 | 75.9 | 61.8 |
| 04:00 PM - 05:00 PM | 62.3 | 73.6 | 61.5 |
| 05:00 PM - 06:00 PM | 62.3 | 73.3 | 61.5 |
| 06:00 PM - 07:00 PM | 62.0 | 65.4 | 61.5 |
| 07:00 PM - 08:00 PM | 62.2 | 66.6 | 61.7 |
| 08:00 PM - 09:00 PM | 62.2 | 69.9 | 61.7 |
| 09:00 PM - 10:00 PM | 62.4 | 68.0 | 61.9 |
| 10:00 PM - 11:00 PM | 62.4 | 65.7 | 61.8 |
| 11:00 PM - 12:00 AM | 62.4 | 71.4 | 60.9 |
| 12:00 AM - 01:00 AM | 61.1 | 64.8 | 60.5 |
| 01:00 AM - 02:00 AM | 61.2 | 64.4 | 60.5 |
| 02:00 AM - 03:00 AM | 61.1 | 66.1 | 60.4 |
| 03:00 AM - 04:00 AM | 61.3 | 65.7 | 60.5 |
| 04:00 AM - 05:00 AM | 61.4 | 65.0 | 60.6 |
| 05:00 AM - 06:00 AM | 61.5 | 66.1 | 60.5 |
| 06:00 AM - 07:00 AM | 61.8 | 72.5 | 60.6 |
| 07:00 AM - 08:00 AM | 62.3 | 76.4 | 60.8 |
| 08:00 AM - 09:00 AM | 61.9 | 76.8 | 60.7 |
| 09:00 AM - 10:00 AM | 61.9 | 73.7 | 60.9 |

| | |
|---|--|
| Leq Average 24 hrs. (dB(A)) | 62.0 |
| Lmax (dB(A)) | 76.8 |
| L90 (dB(A)) | 60.9 |
| L01 (dB(A)) | 68.1 |
| L05 (dB(A)) | 70 |
| Standard (dB(A)) | 115 |
| Reference Method : ISO1996-1 and 1996-2 | |
| Standard | 1. วิธีการคำนวณการประเมินผลกระทบด้านเสียงตามข้อกำหนด 15 (พ.ร.บ. 2540) สำหรับการประเมินผลกระทบด้านเสียง 2. วิธีการตรวจวัดผลกระทบ การคำนวณการประเมินผลกระทบด้านเสียงตามข้อกำหนด และใช้เกณฑ์การประเมินผลกระทบ ตาม พ.ร.บ. 2540 |
| Remark | The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025. |

Tharitat.

Tharita Kulsirwong
Scientist (4)

Approved by

Supot Salameh
Section Head

Supot S.

Technical Management

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Tharita Kulsirwong
Scientist (4)

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Tharita Kulsirwong
Scientist (4)

Approved by



Analysis / Test Report

TESTING
No.0042

Lot ID: 23125315

Date Reported : Dec 04, 2023
Date Reported : Dec 07, 2023
Report Number: 2857352-1

Client : Gulf TSI Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125315-7 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | พื้นที่บ้านทุ่งสำโรง |
| Measurement Date | Nov 29 - Nov 30, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 296518 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 62.3 | 71.8 | 60.9 |
| 11:00 AM - 12:00 PM | 62.2 | 68.6 | 61.0 |
| 12:00 PM - 01:00 PM | 62.1 | 66.2 | 60.9 |
| 01:00 PM - 02:00 PM | 62.4 | 67.9 | 61.0 |
| 02:00 PM - 03:00 PM | 62.6 | 74.0 | 61.1 |
| 03:00 PM - 04:00 PM | 62.5 | 69.9 | 61.0 |
| 04:00 PM - 05:00 PM | 64.3 | 72.0 | 62.2 |
| 05:00 PM - 06:00 PM | 61.7 | 75.0 | 60.4 |
| 06:00 PM - 07:00 PM | 61.1 | 66.6 | 60.5 |
| 07:00 PM - 08:00 PM | 61.2 | 64.4 | 60.7 |
| 08:00 PM - 09:00 PM | 61.6 | 64.9 | 60.8 |
| 09:00 PM - 10:00 PM | 61.7 | 70.2 | 60.5 |
| 10:00 PM - 11:00 PM | 58.8 | 62.8 | 58.4 |
| 11:00 PM - 12:00 AM | 59.1 | 61.3 | 58.6 |
| 12:00 AM - 01:00 AM | 58.0 | 62.0 | 58.5 |
| 01:00 AM - 02:00 AM | 58.7 | 61.2 | 58.3 |
| 02:00 AM - 03:00 AM | 58.7 | 61.8 | 58.3 |
| 03:00 AM - 04:00 AM | 58.7 | 61.5 | 58.3 |
| 04:00 AM - 05:00 AM | 59.1 | 64.0 | 58.6 |
| 05:00 AM - 06:00 AM | 59.3 | 65.4 | 58.7 |
| 06:00 AM - 07:00 AM | 62.2 | 74.2 | 61.2 |
| 07:00 AM - 08:00 AM | 62.2 | 65.7 | 61.2 |
| 08:00 AM - 09:00 AM | 61.7 | 64.5 | 61.2 |
| 09:00 AM - 10:00 AM | 61.8 | 64.7 | 61.2 |

| | |
|-----------------------------|------|
| Leq Average 24 hrs. (dB(A)) | 61.3 |
| Lmax (dB(A)) | 75.0 |
| L90 (dB(A)) | 60.7 |
| Ldn (dB(A)) | |

Standard (dB(A)) 115
Reference Method : ISO1996-1 and 1996-2
Standard : 1. อัตราการขนส่งทางรถไฟสายใหม่ ช่วง 15 (ก.ม. 2540) จังหวัดพระนครศรีอยุธยา
2. อัตราการขนส่งทางรถไฟสายใหม่ ช่วง 15 (ก.ม. 2540) จังหวัดพระนครศรีอยุธยา

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.
Tested on 25/8

Tharitat.

Thantana Kulsumwong
Scientist (4)

Approved by

Supt S.

Supt Salanthich
Section Head

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RIGHT SOLUTIONS

13430-61/ EMAIL

S. Wapornat_ArAseae rpt (1 49724)



Analysis / Test Report

TESTING
No.0042

Lot ID: 23125266

Date Reported : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857332-1C6

Client : Gulf TSI Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

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| | |
|-------------------|------------------------|
| Sample Number | 23125266-8 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | พื้นที่บ้านทุ่งสำโรง |
| Measurement Date | Nov 23 - Nov 24, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 920831 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 56.0 | 81.0 | 51.2 |
| 11:00 AM - 12:00 PM | 56.9 | 77.0 | 51.0 |
| 12:00 PM - 01:00 PM | 55.3 | 82.1 | 51.0 |
| 01:00 PM - 02:00 PM | 57.5 | 83.1 | 52.2 |
| 02:00 PM - 03:00 PM | 57.4 | 82.6 | 52.5 |
| 03:00 PM - 04:00 PM | 56.8 | 79.5 | 50.7 |
| 04:00 PM - 05:00 PM | 57.2 | 80.0 | 51.3 |
| 05:00 PM - 06:00 PM | 56.4 | 74.4 | 49.5 |
| 06:00 PM - 07:00 PM | 56.6 | 71.9 | 49.4 |
| 07:00 PM - 08:00 PM | 58.8 | 73.6 | 49.7 |
| 08:00 PM - 09:00 PM | 57.6 | 69.5 | 46.8 |
| 09:00 PM - 10:00 PM | 64.5 | 69.1 | 51.3 |
| 10:00 PM - 11:00 PM | 65.2 | 69.3 | 55.9 |
| 11:00 PM - 12:00 AM | 64.0 | 70.9 | 53.5 |
| 12:00 AM - 01:00 AM | 64.1 | 70.9 | 55.5 |
| 01:00 AM - 02:00 AM | 62.2 | 74.0 | 46.2 |
| 02:00 AM - 03:00 AM | 53.6 | 66.9 | 45.7 |
| 03:00 AM - 04:00 AM | 50.4 | 66.2 | 44.9 |
| 04:00 AM - 05:00 AM | 56.2 | 71.6 | 47.1 |
| 05:00 AM - 06:00 AM | 49.4 | 68.2 | 45.9 |
| 06:00 AM - 07:00 AM | 53.0 | 75.6 | 46.4 |
| 07:00 AM - 08:00 AM | 53.0 | 76.9 | 48.6 |
| 08:00 AM - 09:00 AM | 51.4 | 70.3 | 45.7 |
| 09:00 AM - 10:00 AM | 52.0 | 69.5 | 46.1 |

| | |
|-----------------------------|------|
| Leq Average 24 hrs. (dB(A)) | 59.2 |
| Lmax (dB(A)) | 83.1 |
| L90 (dB(A)) | 49.5 |
| Ldn (dB(A)) | |

Standard (dB(A)) 115
Reference Method : ISO1996-1 and 1996-2
Standard : 1. อัตราการขนส่งทางรถไฟสายใหม่ ช่วง 15 (ก.ม. 2540) จังหวัดพระนครศรีอยุธยา
2. อัตราการขนส่งทางรถไฟสายใหม่ ช่วง 15 (ก.ม. 2540) จังหวัดพระนครศรีอยุธยา

Tested on 25/8

Tharitat.

Thantana Kulsumwong
Scientist (4)

Approved by

Supt S.

Supt Salanthich
Section Head

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RIGHT SOLUTIONS

13430-61/ EMAIL

S. Wapornat_ArAseae rpt (1 49724)



TESTING
No.0042

Lot ID: 23125266

Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857333-1C6

Analysis / Test Report

Client : Gulf TSH Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasei, Pluak Daeng, Rayong Thailand
21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

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| | |
|-------------------|------------------------|
| Sample Number | 23125266-9 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | พื้นที่บ้านทุ่งสำโรง |
| Measurement Date | Nov 24 - Nov 25, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 920031 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 53.3 | 74.3 | 48.4 |
| 11:00 AM - 12:00 PM | 53.6 | 76.5 | 47.8 |
| 12:00 PM - 01:00 PM | 79.9 | 79.9 | 47.6 |
| 01:00 PM - 02:00 PM | 52.5 | 70.0 | 47.8 |
| 02:00 PM - 03:00 PM | 53.8 | 79.2 | 48.2 |
| 03:00 PM - 04:00 PM | 55.6 | 85.9 | 48.7 |
| 04:00 PM - 05:00 PM | 53.3 | 48.7 | 48.7 |
| 05:00 PM - 06:00 PM | 55.4 | 49.5 | 49.5 |
| 06:00 PM - 07:00 PM | 54.7 | 77.3 | 49.2 |
| 07:00 PM - 08:00 PM | 58.2 | 49.7 | 49.7 |
| 08:00 PM - 09:00 PM | 55.8 | 72.0 | 50.2 |
| 09:00 PM - 10:00 PM | 52.3 | 72.4 | 47.7 |
| 10:00 PM - 11:00 PM | 50.8 | 73.5 | 47.9 |
| 11:00 PM - 12:00 AM | 60.3 | 73.2 | 47.8 |
| 12:00 AM - 01:00 AM | 64.1 | 67.9 | 55.0 |
| 01:00 AM - 02:00 AM | 63.8 | 67.7 | 55.2 |
| 02:00 AM - 03:00 AM | 63.2 | 67.7 | 54.3 |
| 03:00 AM - 04:00 AM | 59.0 | 78.1 | 51.1 |
| 04:00 AM - 05:00 AM | 62.9 | 78.4 | 59.2 |
| 05:00 AM - 06:00 AM | 60.6 | 78.9 | 50.2 |
| 06:00 AM - 07:00 AM | 59.6 | 79.6 | 49.6 |
| 07:00 AM - 08:00 AM | 58.1 | 78.7 | 48.3 |
| 08:00 AM - 09:00 AM | 56.8 | 85.4 | 49.4 |
| 09:00 AM - 10:00 AM | 53.4 | 80.6 | 46.1 |

| | |
|-----------------------------|------|
| Leq Average 24 hrs. (dB(A)) | 58.7 |
| Lmax (dB(A)) | 85.9 |
| L90 (dB(A)) | 48.7 |
| Ldn (dB(A)) | 70 |
| Standard (dB(A)) | 115 |

Reference Method : ISO1996-1 and 1996-2
Standard 1. ใช้มาตรฐานการวัดระดับความเข้มเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับอาคารโรงงานและพื้นที่ใกล้เคียง
Standard 2. ใช้มาตรฐานการวัดระดับความเข้มเสียงตามข้อกำหนด และระดับเสียงที่คาดการณ์จากโรงงาน/อาคาร
โรงงาน พ.ศ. 2548

Technical Management

Tharitak.

Approved by

Supt S.

Thantia Kulunwong
Scientist (4)

Supt Salameh
Section Head

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RIGHT SOLUTIONS

13400-61/ EWAL



TESTING
No.0042

Lot ID: 23125266

Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857334-1C6

Analysis / Test Report

Client : Gulf TSH Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasei, Pluak Daeng, Rayong Thailand
21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

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| | |
|-------------------|------------------------|
| Sample Number | 23125266-10 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | พื้นที่บ้านทุ่งสำโรง |
| Measurement Date | Nov 25 - Nov 26, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 920031 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 54.3 | 72.5 | 48.4 |
| 11:00 AM - 12:00 PM | 58.3 | 87.9 | 53.0 |
| 12:00 PM - 01:00 PM | 57.6 | 73.9 | 53.1 |
| 01:00 PM - 02:00 PM | 58.8 | 80.8 | 52.2 |
| 02:00 PM - 03:00 PM | 56.6 | 73.8 | 51.6 |
| 03:00 PM - 04:00 PM | 58.1 | 77.0 | 50.8 |
| 04:00 PM - 05:00 PM | 60.1 | 76.6 | 51.5 |
| 05:00 PM - 06:00 PM | 61.6 | 71.9 | 51.6 |
| 06:00 PM - 07:00 PM | 64.4 | 72.0 | 58.9 |
| 07:00 PM - 08:00 PM | 68.3 | 79.0 | 56.3 |
| 08:00 PM - 09:00 PM | 67.7 | 74.6 | 51.8 |
| 09:00 PM - 10:00 PM | 64.2 | 76.2 | 52.5 |
| 10:00 PM - 11:00 PM | 61.6 | 69.1 | 48.8 |
| 11:00 PM - 12:00 AM | 62.8 | 70.8 | 53.7 |
| 12:00 AM - 01:00 AM | 61.2 | 76.2 | 50.3 |
| 01:00 AM - 02:00 AM | 60.7 | 71.3 | 49.9 |
| 02:00 AM - 03:00 AM | 66.3 | 78.5 | 65.6 |
| 03:00 AM - 04:00 AM | 66.2 | 79.0 | 65.7 |
| 04:00 AM - 05:00 AM | 66.3 | 79.1 | 65.8 |
| 05:00 AM - 06:00 AM | 66.9 | 80.6 | 60.6 |
| 06:00 AM - 07:00 AM | 66.5 | 91.3 | 52.6 |
| 07:00 AM - 08:00 AM | 65.2 | 100.8 | 54.6 |
| 08:00 AM - 09:00 AM | 57.2 | 82.2 | 52.4 |
| 09:00 AM - 10:00 AM | 58.1 | 78.2 | 52.2 |

| | |
|-----------------------------|-------|
| Leq Average 24 hrs. (dB(A)) | 63.7 |
| Lmax (dB(A)) | 100.8 |
| L90 (dB(A)) | 52.4 |
| Ldn (dB(A)) | 71.1 |
| Standard (dB(A)) | 115 |

Reference Method : ISO1996-1 and 1996-2
Standard 1. ใช้มาตรฐานการวัดระดับความเข้มเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับอาคารโรงงานและพื้นที่ใกล้เคียง
Standard 2. ใช้มาตรฐานการวัดระดับความเข้มเสียงตามข้อกำหนด และระดับเสียงที่คาดการณ์จากโรงงาน/อาคาร
โรงงาน พ.ศ. 2548

Technical Management

Tharitak.

Approved by

Supt S.

Thantia Kulunwong
Scientist (4)

Supt Salameh
Section Head

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RIGHT SOLUTIONS

13400-61/ EWAL



TESTING
No.0042

Lot ID: 23125266

Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857335-1C6

Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong Thailand
21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

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| | |
|-------------------|------------------------|
| Sample Number | 23125266-11 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | 15x10m ห้างสินค้า |
| Measurement Date | Nov 26 - Nov 27, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 920831 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 56.5 | 83.3 | 52.2 |
| 11:00 AM - 12:00 PM | 58.7 | 84.3 | 53.4 |
| 12:00 PM - 01:00 PM | 58.6 | 83.8 | 53.7 |
| 01:00 PM - 02:00 PM | 58.0 | 80.7 | 51.9 |
| 02:00 PM - 03:00 PM | 58.4 | 81.2 | 52.5 |
| 03:00 PM - 04:00 PM | 57.6 | 75.6 | 50.7 |
| 04:00 PM - 05:00 PM | 57.8 | 73.1 | 50.6 |
| 05:00 PM - 06:00 PM | 61.2 | 76.0 | 52.1 |
| 06:00 PM - 07:00 PM | 60.0 | 71.9 | 49.2 |
| 07:00 PM - 08:00 PM | 66.9 | 71.5 | 53.7 |
| 08:00 PM - 09:00 PM | 67.6 | 71.7 | 58.3 |
| 09:00 PM - 10:00 PM | 66.4 | 73.3 | 55.9 |
| 10:00 PM - 11:00 PM | 66.5 | 73.3 | 57.9 |
| 11:00 PM - 12:00 AM | 64.6 | 76.4 | 48.6 |
| 12:00 AM - 01:00 AM | 56.0 | 69.3 | 48.1 |
| 01:00 AM - 02:00 AM | 52.8 | 68.6 | 47.3 |
| 02:00 AM - 03:00 AM | 58.6 | 74.0 | 49.5 |
| 03:00 AM - 04:00 AM | 51.8 | 70.6 | 48.3 |
| 04:00 AM - 05:00 AM | 55.4 | 78.0 | 48.8 |
| 05:00 AM - 06:00 AM | 57.4 | 79.3 | 51.0 |
| 06:00 AM - 07:00 AM | 53.8 | 72.7 | 48.1 |
| 07:00 AM - 08:00 AM | 54.4 | 71.9 | 48.5 |
| 08:00 AM - 09:00 AM | 54.1 | 75.1 | 49.2 |
| 09:00 AM - 10:00 AM | 54.4 | 77.3 | 48.6 |
| Leq Average 24 hrs. (dB(A)) | 61.3 | | |
| Lmax (dB(A)) | 84.3 | | |
| L90 (dB(A)) | | | 50.6 |
| Ldn (dB(A)) | 67.1 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO1996-1 and 1996-2
Standard 1. ใช้มาตรฐานวิธีทดสอบเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540) สำหรับมาตรฐานวิธีทดสอบเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540)
2. ใช้มาตรฐานวิธีทดสอบเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540)

Technical Management

Tharitat.

Scientist (t)

Thantia Kulsurwong

Approved by

Supt S

Supt Salameh

Section Head

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RIGHT SOLUTIONS

1330-61/ EMAIL



Analysis / Test Report

TESTING
No.0042

Lot ID: 23125266

Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857336-1C6

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong Thailand
21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125266-12 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | 15x10m ห้างสินค้า |
| Measurement Date | Nov 27 - Nov 28, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 920831 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 53.8 | 80.7 | 48.4 |
| 11:00 AM - 12:00 PM | 53.3 | 70.8 | 48.6 |
| 12:00 PM - 01:00 PM | 54.6 | 80.0 | 49.0 |
| 01:00 PM - 02:00 PM | 56.4 | 86.7 | 49.5 |
| 02:00 PM - 03:00 PM | 54.1 | 70.3 | 49.5 |
| 03:00 PM - 04:00 PM | 56.2 | 79.9 | 50.3 |
| 04:00 PM - 05:00 PM | 55.5 | 78.1 | 50.0 |
| 05:00 PM - 06:00 PM | 59.0 | 80.0 | 50.5 |
| 06:00 PM - 07:00 PM | 56.6 | 72.8 | 51.0 |
| 07:00 PM - 08:00 PM | 53.1 | 73.2 | 48.5 |
| 08:00 PM - 09:00 PM | 51.6 | 74.3 | 48.7 |
| 09:00 PM - 10:00 PM | 61.1 | 74.0 | 48.6 |
| 10:00 PM - 11:00 PM | 67.2 | 71.0 | 58.1 |
| 11:00 PM - 12:00 AM | 66.9 | 70.8 | 58.3 |
| 12:00 AM - 01:00 AM | 66.3 | 70.8 | 57.4 |
| 01:00 AM - 02:00 AM | 62.1 | 81.2 | 54.2 |
| 02:00 AM - 03:00 AM | 66.0 | 81.5 | 62.3 |
| 03:00 AM - 04:00 AM | 63.7 | 82.0 | 53.3 |
| 04:00 AM - 05:00 AM | 62.7 | 82.7 | 52.7 |
| 05:00 AM - 06:00 AM | 61.2 | 81.8 | 51.4 |
| 06:00 AM - 07:00 AM | 59.9 | 88.5 | 52.5 |
| 07:00 AM - 08:00 AM | 56.5 | 83.7 | 49.2 |
| 08:00 AM - 09:00 AM | 57.4 | 75.6 | 51.5 |
| 09:00 AM - 10:00 AM | 57.0 | 82.6 | 51.9 |
| Leq Average 24 hrs. (dB(A)) | 61.4 | | |
| Lmax (dB(A)) | 88.5 | | |
| L90 (dB(A)) | | | 50.5 |
| Ldn (dB(A)) | 70.5 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO1996-1 and 1996-2
Standard 1. ใช้มาตรฐานวิธีทดสอบเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540) สำหรับมาตรฐานวิธีทดสอบเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540)
2. ใช้มาตรฐานวิธีทดสอบเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540)

Technical Management

Tharitat.

Scientist (t)

Thantia Kulsurwong

Approved by

Supt S

Supt Salameh

Section Head

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RIGHT SOLUTIONS

1330-61/ EMAIL



Analysis / Test Report

TESTING
No.0042

Lot ID: 23125266

Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857337-1C6

Client : Gulf TSI Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140

P/O : GTS4-4210500514

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125266-13 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | ท่าเรือบ้านท่าเรือ |
| Measurement Date | Nov 28 - Nov 29, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 920831 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 59.7 | 86.8 | 53.2 |
| 11:00 AM - 12:00 PM | 60.6 | 82.8 | 55.8 |
| 12:00 PM - 01:00 PM | 61.2 | 78.9 | 56.1 |
| 01:00 PM - 02:00 PM | 58.1 | 77.4 | 52.3 |
| 02:00 PM - 03:00 PM | 58.6 | 83.1 | 52.1 |
| 03:00 PM - 04:00 PM | 59.4 | 81.7 | 51.6 |
| 04:00 PM - 05:00 PM | 59.0 | 82.2 | 51.2 |
| 05:00 PM - 06:00 PM | 66.0 | 85.0 | 63.9 |
| 06:00 PM - 07:00 PM | 65.6 | 81.0 | 58.0 |
| 07:00 PM - 08:00 PM | 63.2 | 77.8 | 52.4 |
| 08:00 PM - 09:00 PM | 64.1 | 75.0 | 55.6 |
| 09:00 PM - 10:00 PM | 63.1 | 75.8 | 53.4 |
| 10:00 PM - 11:00 PM | 61.1 | 70.3 | 51.6 |
| 11:00 PM - 12:00 AM | 61.6 | 71.9 | 50.0 |
| 12:00 AM - 01:00 AM | 61.9 | 72.6 | 49.5 |
| 01:00 AM - 02:00 AM | 59.2 | 71.5 | 50.9 |
| 02:00 AM - 03:00 AM | 58.6 | 77.6 | 52.3 |
| 03:00 AM - 04:00 AM | 63.8 | 78.9 | 57.6 |
| 04:00 AM - 05:00 AM | 67.1 | 80.2 | 57.6 |
| 05:00 AM - 06:00 AM | 66.6 | 78.7 | 62.2 |
| 06:00 AM - 07:00 AM | 62.8 | 79.1 | 54.1 |
| 07:00 AM - 08:00 AM | 59.4 | 85.3 | 52.3 |
| 08:00 AM - 09:00 AM | 55.0 | 72.9 | 50.9 |
| 09:00 AM - 10:00 AM | 54.5 | 78.9 | 50.1 |
| Leq Average 24 hrs. (dB(A)) | 62.7 | | |
| Lmax (dB(A)) | | 86.8 | |
| L90 (dB(A)) | | | 52.3 |
| Ldn (dB(A)) | 69.7 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard 1. ใช้มาตรฐานการวัดระดับเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดระดับเสียงในชุมชน
2. ใช้มาตรฐานการวัดระดับเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดระดับเสียงในชุมชน

วันที่ 25 ธ.ค. 2566

Technical Management

Tharitat.

Approved by

Supt S.

Thantia Kulsumwong
Scientist (4)

Supt Salameh
Section Head

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RIGHT SOLUTIONS

1340-61/EMAIL



Analysis / Test Report

TESTING
No.0042

Lot ID: 23125266

Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857338-1C6

Client : Gulf TSI Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140

P/O : GTS4-4210500514

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125266-14 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | ท่าเรือบ้านท่าเรือ |
| Measurement Date | Nov 29 - Nov 30, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 920831 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 58.1 | 78.1 | 50.9 |
| 11:00 AM - 12:00 PM | 55.7 | 81.2 | 50.5 |
| 12:00 PM - 01:00 PM | 56.6 | 78.9 | 51.3 |
| 01:00 PM - 02:00 PM | 57.0 | 82.3 | 51.7 |
| 02:00 PM - 03:00 PM | 55.3 | 74.7 | 51.1 |
| 03:00 PM - 04:00 PM | 52.0 | 79.2 | 51.6 |
| 04:00 PM - 05:00 PM | 65.1 | 78.0 | 50.5 |
| 05:00 PM - 06:00 PM | 57.7 | 83.7 | 50.0 |
| 06:00 PM - 07:00 PM | 56.2 | 87.9 | 49.2 |
| 07:00 PM - 08:00 PM | 59.3 | 78.7 | 51.9 |
| 08:00 PM - 09:00 PM | 58.5 | 78.7 | 51.9 |
| 09:00 PM - 10:00 PM | 56.5 | 75.2 | 51.6 |
| 10:00 PM - 11:00 PM | 58.6 | 79.7 | 52.1 |
| 11:00 PM - 12:00 AM | 58.5 | 71.2 | 50.9 |
| 12:00 AM - 01:00 AM | 64.2 | 78.5 | 58.6 |
| 01:00 AM - 02:00 AM | 65.9 | 72.1 | 55.8 |
| 02:00 AM - 03:00 AM | 65.9 | 77.3 | 64.8 |
| 03:00 AM - 04:00 AM | 66.6 | 79.0 | 64.2 |
| 04:00 AM - 05:00 AM | 66.1 | 77.6 | 63.7 |
| 05:00 AM - 06:00 AM | 65.4 | 79.0 | 59.5 |
| 06:00 AM - 07:00 AM | 63.0 | 77.1 | 52.5 |
| 07:00 AM - 08:00 AM | 54.7 | 72.1 | 50.6 |
| 08:00 AM - 09:00 AM | 54.8 | 73.2 | 48.7 |
| 09:00 AM - 10:00 AM | 55.3 | 74.0 | 50.3 |
| Leq Average 24 hrs. (dB(A)) | 61.6 | | |
| Lmax (dB(A)) | | 87.9 | |
| L90 (dB(A)) | | | 51.6 |
| Ldn (dB(A)) | 70.3 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard 1. ใช้มาตรฐานการวัดระดับเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดระดับเสียงในชุมชน
2. ใช้มาตรฐานการวัดระดับเสียงตามข้อกำหนด 15 (พ.ศ. 2540) สำหรับการวัดระดับเสียงในชุมชน

วันที่ 25 ธ.ค. 2566

Technical Management

Tharitat.

Approved by

Supt S.

Thantia Kulsumwong
Scientist (4)

Supt Salameh
Section Head

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RIGHT SOLUTIONS

1340-61/EMAIL



Analysis / Test Report

TESTING
No.0042

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 23125266
Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857339-1C6

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125266-15 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | บริเวณทางเข้าท่าเรือ |
| Measurement Date | Nov 23 - Nov 24, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 1120939 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 56.8 | 75.6 | 45.8 |
| 11:00 AM - 12:00 PM | 50.6 | 72.7 | 44.2 |
| 12:00 PM - 01:00 PM | 52.6 | 83.1 | 47.8 |
| 01:00 PM - 02:00 PM | 56.8 | 78.0 | 47.4 |
| 02:00 PM - 03:00 PM | 51.6 | 70.6 | 44.3 |
| 03:00 PM - 04:00 PM | 52.1 | 67.0 | 47.9 |
| 04:00 PM - 05:00 PM | 50.4 | 66.3 | 47.3 |
| 05:00 PM - 06:00 PM | 50.4 | 70.1 | 43.7 |
| 06:00 PM - 07:00 PM | 47.7 | 63.5 | 43.8 |
| 07:00 PM - 08:00 PM | 52.5 | 81.6 | 47.3 |
| 08:00 PM - 09:00 PM | 52.8 | 65.8 | 45.2 |
| 09:00 PM - 10:00 PM | 51.1 | 68.7 | 45.0 |
| 10:00 PM - 11:00 PM | 48.2 | 61.4 | 44.0 |
| 11:00 PM - 12:00 AM | 46.6 | 70.6 | 42.0 |
| 12:00 AM - 01:00 AM | 46.4 | 66.1 | 42.5 |
| 01:00 AM - 02:00 AM | 47.7 | 63.0 | 43.0 |
| 02:00 AM - 03:00 AM | 46.2 | 58.8 | 42.9 |
| 03:00 AM - 04:00 AM | 45.8 | 58.8 | 41.9 |
| 04:00 AM - 05:00 AM | 47.0 | 59.6 | 44.3 |
| 05:00 AM - 06:00 AM | 51.3 | 74.1 | 45.3 |
| 06:00 AM - 07:00 AM | 54.2 | 72.5 | 47.1 |
| 07:00 AM - 08:00 AM | 53.1 | 67.0 | 47.8 |
| 08:00 AM - 09:00 AM | 52.1 | 75.9 | 47.0 |
| 09:00 AM - 10:00 AM | 51.7 | 66.7 | 48.1 |

Leq Average 24 hrs. (dB(A)) 51.8

Lmax (dB(A)) 83.1

L90 (dB(A)) 45.0

Ldn (dB(A)) 115

Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้มาตรฐานการวัดระดับเสียงตามมาตรฐานฉบับที่ 15 (พ.ศ. 2540) สำหรับการประเมินผลกระทบสิ่งแวดล้อม
2. ใช้มาตรฐานการวัดระดับเสียงตามมาตรฐานฉบับที่ 15 (พ.ศ. 2540) สำหรับการประเมินผลกระทบสิ่งแวดล้อม

วันที่ ม.ค. 2548

Technical Management

Tharitat.

Approved by

Supt S.

Thantia Kulsurwong
Scientist (4)

Supt Salanth
Section Head

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RIGHT SOLUTIONS

13430-61/ EMAIL



Analysis / Test Report

TESTING
No.0042

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 23125266
Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857340-1C6

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125266-16 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | บริเวณทางเข้าท่าเรือ |
| Measurement Date | Nov 24 - Nov 25, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 1120939 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 54.4 | 77.3 | 46.8 |
| 11:00 AM - 12:00 PM | 49.9 | 68.6 | 45.0 |
| 12:00 PM - 01:00 PM | 49.5 | 65.3 | 43.9 |
| 01:00 PM - 02:00 PM | 49.8 | 64.7 | 45.1 |
| 02:00 PM - 03:00 PM | 50.8 | 77.3 | 46.1 |
| 03:00 PM - 04:00 PM | 49.9 | 66.5 | 45.7 |
| 04:00 PM - 05:00 PM | 50.2 | 65.2 | 45.8 |
| 05:00 PM - 06:00 PM | 52.7 | 76.1 | 46.2 |
| 06:00 PM - 07:00 PM | 48.5 | 68.6 | 43.4 |
| 07:00 PM - 08:00 PM | 47.7 | 70.7 | 44.4 |
| 08:00 PM - 09:00 PM | 52.6 | 66.0 | 44.4 |
| 09:00 PM - 10:00 PM | 48.6 | 71.7 | 43.9 |
| 10:00 PM - 11:00 PM | 47.1 | 63.2 | 44.8 |
| 11:00 PM - 12:00 AM | 46.9 | 65.5 | 44.3 |
| 12:00 AM - 01:00 AM | 47.3 | 62.6 | 43.3 |
| 01:00 AM - 02:00 AM | 50.8 | 73.6 | 44.4 |
| 02:00 AM - 03:00 AM | 49.2 | 72.1 | 44.4 |
| 03:00 AM - 04:00 AM | 49.2 | 62.1 | 46.5 |
| 04:00 AM - 05:00 AM | 49.0 | 63.9 | 46.9 |
| 05:00 AM - 06:00 AM | 50.1 | 62.9 | 47.0 |
| 06:00 AM - 07:00 AM | 53.8 | 72.1 | 46.7 |
| 07:00 AM - 08:00 AM | 55.2 | 80.7 | 49.3 |
| 08:00 AM - 09:00 AM | 53.5 | 72.8 | 48.7 |
| 09:00 AM - 10:00 AM | 53.0 | 67.3 | 49.0 |

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

Lmax (dB(A)) 80.7

L90 (dB(A)) 45.1

Ldn (dB(A)) 115

Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้มาตรฐานการวัดระดับเสียงตามมาตรฐานฉบับที่ 15 (พ.ศ. 2540) สำหรับการประเมินผลกระทบสิ่งแวดล้อม
2. ใช้มาตรฐานการวัดระดับเสียงตามมาตรฐานฉบับที่ 15 (พ.ศ. 2540) สำหรับการประเมินผลกระทบสิ่งแวดล้อม

วันที่ ม.ค. 2548

Technical Management

Tharitat.

Approved by

Supt S.

Thantia Kulsurwong
Scientist (4)

Supt Salanth
Section Head

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13430-61/ EMAIL



Analysis / Test Report

TESTING
No.0042

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
Lot ID: 23125266
Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857341-1C6

P/O : GT54-4210500514

Project Name : Monitoring EIA

Project Location : GT54

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125266-17 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | บริเวณสายพาน |
| Measurement Date | Nov 25 - Nov 26, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 1120939 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 53.2 | 73.0 | 48.1 |
| 11:00 AM - 12:00 PM | 52.8 | 72.9 | 47.6 |
| 12:00 PM - 01:00 PM | 49.0 | 66.9 | 44.5 |
| 01:00 PM - 02:00 PM | 51.0 | 68.7 | 45.9 |
| 02:00 PM - 03:00 PM | 51.8 | 67.4 | 46.7 |
| 03:00 PM - 04:00 PM | 51.0 | 69.3 | 45.7 |
| 04:00 PM - 05:00 PM | 50.2 | 74.9 | 44.7 |
| 05:00 PM - 06:00 PM | 51.4 | 72.7 | 45.1 |
| 06:00 PM - 07:00 PM | 48.9 | 70.2 | 45.1 |
| 07:00 PM - 08:00 PM | 49.8 | 73.0 | 46.1 |
| 08:00 PM - 09:00 PM | 48.5 | 68.8 | 45.5 |
| 09:00 PM - 10:00 PM | 46.8 | 63.4 | 43.4 |
| 10:00 PM - 11:00 PM | 47.8 | 62.3 | 43.4 |
| 11:00 PM - 12:00 AM | 45.6 | 64.5 | 43.1 |
| 12:00 AM - 01:00 AM | 45.5 | 64.7 | 41.9 |
| 01:00 AM - 02:00 AM | 45.6 | 73.5 | 42.3 |
| 02:00 AM - 03:00 AM | 45.2 | 65.2 | 42.7 |
| 03:00 AM - 04:00 AM | 45.6 | 58.8 | 42.5 |
| 04:00 AM - 05:00 AM | 46.8 | 66.8 | 43.1 |
| 05:00 AM - 06:00 AM | 49.1 | 76.1 | 43.4 |
| 06:00 AM - 07:00 AM | 53.8 | 77.4 | 45.1 |
| 07:00 AM - 08:00 AM | 52.7 | 77.0 | 45.8 |
| 08:00 AM - 09:00 AM | 51.6 | 75.7 | 47.1 |
| 09:00 AM - 10:00 AM | 50.5 | 70.9 | 46.4 |
| Leq Average 24 hrs. (dB(A)) | 50.1 | | |
| Lmax (dB(A)) | 77.4 | | 45.1 |
| L90 (dB(A)) | | | |
| Ldn (dB(A)) | 55.2 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO1996-1 and 1996-2

Standard 1. เป็นค่าการวัดระดับเสียงตามมาตรฐานฉบับที่ 15 (พ.ศ. 2540) (ค่าการวัดการรบกวนเสียงในท้องถิ่น)

Standard 2. เป็นค่าการวัดระดับเสียงตามมาตรฐานฉบับที่ 15 (พ.ศ. 2540) (ค่าการวัดการรบกวนเสียงในท้องถิ่น)

Issued on: 2548

Technical Management

Tharitak.

Approved by

Supt S.

Thantia Kulnawong

Scientist (4)

Supot Salameh

Section Head

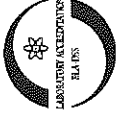
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RIGHT SOLUTIONS

13430-61/ ENAIL



Analysis / Test Report

TESTING
No.0042

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
Lot ID: 23125266
Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857342-1C6

P/O : GT54-4210500514

Project Name : Monitoring EIA

Project Location : GT54

Page 1 of 1

| | |
|-------------------|------------------------|
| Sample Number | 23125266-18 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | บริเวณสายพาน |
| Measurement Date | Nov 26 - Nov 27, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 1120939 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 49.1 | 67.0 | 45.2 |
| 11:00 AM - 12:00 PM | 48.4 | 73.9 | 43.5 |
| 12:00 PM - 01:00 PM | 46.3 | 60.6 | 41.1 |
| 01:00 PM - 02:00 PM | 47.3 | 65.2 | 42.3 |
| 02:00 PM - 03:00 PM | 47.2 | 66.0 | 42.5 |
| 03:00 PM - 04:00 PM | 49.9 | 72.4 | 43.3 |
| 04:00 PM - 05:00 PM | 46.4 | 65.7 | 42.1 |
| 05:00 PM - 06:00 PM | 51.9 | 74.5 | 41.7 |
| 06:00 PM - 07:00 PM | 49.7 | 67.8 | 42.1 |
| 07:00 PM - 08:00 PM | 44.7 | 65.9 | 42.3 |
| 08:00 PM - 09:00 PM | 47.6 | 75.2 | 42.9 |
| 09:00 PM - 10:00 PM | 46.3 | 68.7 | 42.3 |
| 10:00 PM - 11:00 PM | 49.9 | 74.7 | 42.4 |
| 11:00 PM - 12:00 AM | 48.5 | 67.8 | 40.2 |
| 12:00 AM - 01:00 AM | 43.8 | 63.1 | 40.4 |
| 01:00 AM - 02:00 AM | 43.8 | 64.3 | 40.9 |
| 02:00 AM - 03:00 AM | 47.2 | 62.7 | 41.0 |
| 03:00 AM - 04:00 AM | 47.0 | 64.2 | 43.0 |
| 04:00 AM - 05:00 AM | 48.0 | 67.1 | 45.7 |
| 05:00 AM - 06:00 AM | 50.2 | 77.6 | 44.7 |
| 06:00 AM - 07:00 AM | 52.8 | 71.6 | 46.4 |
| 07:00 AM - 08:00 AM | 53.7 | 73.2 | 47.0 |
| 08:00 AM - 09:00 AM | 51.6 | 78.7 | 46.7 |
| 09:00 AM - 10:00 AM | 50.5 | 71.3 | 46.1 |
| Leq Average 24 hrs. (dB(A)) | 49.2 | | |
| Lmax (dB(A)) | 78.7 | | 42.4 |
| L90 (dB(A)) | | | |
| Ldn (dB(A)) | 55.3 | 115 | |
| Standard (dB(A)) | 70 | | |

Reference Method : ISO1996-1 and 1996-2

Standard 1. เป็นค่าการวัดระดับเสียงตามมาตรฐานฉบับที่ 15 (พ.ศ. 2540) (ค่าการวัดการรบกวนเสียงในท้องถิ่น)

Standard 2. เป็นค่าการวัดระดับเสียงตามมาตรฐานฉบับที่ 15 (พ.ศ. 2540) (ค่าการวัดการรบกวนเสียงในท้องถิ่น)

Issued on: 2548

Technical Management

Tharitak.

Approved by

Supt S.

Thantia Kulnawong

Scientist (4)

Supot Salameh

Section Head

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RIGHT SOLUTIONS

13430-61/ ENAIL



TESTING
No.0042

Lot ID: 23125266
Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857343-1C6

Page 1 of 1



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

| | |
|-------------------|------------------------|
| Sample Number | 23125266-19 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | พื้นที่อยู่อาศัย |
| Measurement Date | Nov 27 - Nov 28, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 1120939 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 49.9 | 77.9 | 45.8 |
| 11:00 AM - 12:00 PM | 48.6 | 64.0 | 44.9 |
| 12:00 PM - 01:00 PM | 48.4 | 69.1 | 44.4 |
| 01:00 PM - 02:00 PM | 47.8 | 64.7 | 44.3 |
| 02:00 PM - 03:00 PM | 47.8 | 65.6 | 44.3 |
| 03:00 PM - 04:00 PM | 48.3 | 66.4 | 44.3 |
| 04:00 PM - 05:00 PM | 51.8 | 87.5 | 44.4 |
| 05:00 PM - 06:00 PM | 56.5 | 75.3 | 45.5 |
| 06:00 PM - 07:00 PM | 50.3 | 72.4 | 43.9 |
| 07:00 PM - 08:00 PM | 52.3 | 82.8 | 47.5 |
| 08:00 PM - 09:00 PM | 56.5 | 77.7 | 47.1 |
| 09:00 PM - 10:00 PM | 61.1 | 92.0 | 47.8 |
| 10:00 PM - 11:00 PM | 59.9 | 90.3 | 48.3 |
| 11:00 PM - 12:00 AM | 61.4 | 95.5 | 44.7 |
| 12:00 AM - 01:00 AM | 55.8 | 91.9 | 43.9 |
| 01:00 AM - 02:00 AM | 53.7 | 96.4 | 43.1 |
| 02:00 AM - 03:00 AM | 45.1 | 68.0 | 42.5 |
| 03:00 AM - 04:00 AM | 46.0 | 65.4 | 41.5 |
| 04:00 AM - 05:00 AM | 45.5 | 63.0 | 41.2 |
| 05:00 AM - 06:00 AM | 46.5 | 65.6 | 41.7 |
| 06:00 AM - 07:00 AM | 52.0 | 71.0 | 44.7 |
| 07:00 AM - 08:00 AM | 52.5 | 67.4 | 48.3 |
| 08:00 AM - 09:00 AM | 50.8 | 66.7 | 47.7 |
| 09:00 AM - 10:00 AM | 49.0 | 75.7 | 45.1 |
| Leq Average 24 hrs. (dB(A)) | 54.5 | 96.4 | 44.4 |
| Lmax (dB(A)) | | | |
| L90 (dB(A)) | | | |
| Ldn (dB(A)) | 61.8 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้มาตรฐานการวัดเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540) สำหรับชุมชนและพื้นที่อยู่อาศัย
2. ใช้มาตรฐานการวัดเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540) สำหรับพื้นที่อุตสาหกรรม

Technical Management
Tharitat.

Approved by

Supt S.

Supot Salantich
Section Head

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RIGHT SOLUTIONS

13430-61/ EMAIL



Analysis / Test Report

TESTING
No.0042

Lot ID: 23125266
Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857344-1C6

Page 1 of 1



Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

| | |
|-------------------|------------------------|
| Sample Number | 23125266-20 |
| Parameter | Noise (Leq 24 hrs.) |
| Location | พื้นที่อยู่อาศัย |
| Measurement Date | Nov 28 - Nov 29, 2023 |
| Measurement by | Anurak Tongkhajonsakda |
| Sound Level meter | Serial No. 1120939 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 51.0 | 74.6 | 44.6 |
| 11:00 AM - 12:00 PM | 48.7 | 69.0 | 44.1 |
| 12:00 PM - 01:00 PM | 46.8 | 62.8 | 42.3 |
| 01:00 PM - 02:00 PM | 48.3 | 65.4 | 42.5 |
| 02:00 PM - 03:00 PM | 48.3 | 69.0 | 44.0 |
| 03:00 PM - 04:00 PM | 50.3 | 72.1 | 44.3 |
| 04:00 PM - 05:00 PM | 48.8 | 70.8 | 44.6 |
| 05:00 PM - 06:00 PM | 49.4 | 74.2 | 44.2 |
| 06:00 PM - 07:00 PM | 49.3 | 72.3 | 43.5 |
| 07:00 PM - 08:00 PM | 48.8 | 62.7 | 45.2 |
| 08:00 PM - 09:00 PM | 47.7 | 62.7 | 44.2 |
| 09:00 PM - 10:00 PM | 50.1 | 69.1 | 44.7 |
| 10:00 PM - 11:00 PM | 47.7 | 64.0 | 44.7 |
| 11:00 PM - 12:00 AM | 46.0 | 64.9 | 43.9 |
| 12:00 AM - 01:00 AM | 45.8 | 73.2 | 43.1 |
| 01:00 AM - 02:00 AM | 48.1 | 62.7 | 43.0 |
| 02:00 AM - 03:00 AM | 48.9 | 77.4 | 43.3 |
| 03:00 AM - 04:00 AM | 50.4 | 82.7 | 42.8 |
| 04:00 AM - 05:00 AM | 48.8 | 77.0 | 43.6 |
| 05:00 AM - 06:00 AM | 48.2 | 61.7 | 45.3 |
| 06:00 AM - 07:00 AM | 50.1 | 62.1 | 45.1 |
| 07:00 AM - 08:00 AM | 53.8 | 76.3 | 48.9 |
| 08:00 AM - 09:00 AM | 52.0 | 74.1 | 47.6 |
| 09:00 AM - 10:00 AM | 51.2 | 70.6 | 46.8 |
| Leq Average 24 hrs. (dB(A)) | 49.5 | 82.7 | 44.2 |
| Lmax (dB(A)) | | | |
| L90 (dB(A)) | | | |
| Ldn (dB(A)) | 55.1 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้มาตรฐานการวัดเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540) สำหรับชุมชนและพื้นที่อยู่อาศัย
2. ใช้มาตรฐานการวัดเสียงตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ (พ.ร.บ. 2540) สำหรับพื้นที่อุตสาหกรรม

Technical Management
Tharitat.

Approved by

Supt S.

Supot Salantich
Section Head

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RIGHT SOLUTIONS

13430-61/ EMAIL



Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
P/O : GT54-421050514
Project Name : Monitoring EIA
Project Location : GT54

Lot ID: 23125266
Date Received : Dec 04, 2023
Date Reported : Dec 25, 2023
Report Number: 2857345-1C6

TESTING
NO 0042

Page 1 of 1

| | | | |
|---------------------|------------------------|--------------|-------------|
| Sample Number | 23125266-21 | | |
| Parameter | Noise (Leq 24 hrs.) | | |
| Location | บ้านนาเกลือ | | |
| Measurement Date | Nov 29 - Nov 30, 2023 | | |
| Measurement by | Anurak Tongkhajonsakda | | |
| Sound Level meter | Serial No. 1120939 | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 10:00 AM - 11:00 AM | 50.5 | 70.3 | 44.9 |
| 11:00 AM - 12:00 PM | 49.6 | 72.0 | 44.4 |
| 12:00 PM - 01:00 PM | 49.6 | 72.3 | 42.7 |
| 01:00 PM - 02:00 PM | 47.7 | 67.9 | 42.6 |
| 02:00 PM - 03:00 PM | 48.5 | 63.6 | 42.6 |
| 03:00 PM - 04:00 PM | 49.5 | 65.1 | 44.7 |
| 04:00 PM - 05:00 PM | 49.2 | 67.3 | 45.2 |
| 05:00 PM - 06:00 PM | 50.3 | 73.4 | 45.1 |
| 06:00 PM - 07:00 PM | 47.2 | 67.3 | 43.4 |
| 07:00 PM - 08:00 PM | 48.6 | 70.7 | 44.8 |
| 08:00 PM - 09:00 PM | 47.9 | 63.3 | 45.0 |
| 09:00 PM - 10:00 PM | 47.0 | 67.2 | 44.3 |
| 10:00 PM - 11:00 PM | 46.1 | 63.9 | 43.5 |
| 11:00 PM - 12:00 AM | 45.3 | 63.3 | 42.9 |
| 12:00 AM - 01:00 AM | 49.1 | 80.7 | 42.7 |
| 01:00 AM - 02:00 AM | 46.2 | 76.8 | 42.1 |
| 02:00 AM - 03:00 AM | 47.1 | 70.8 | 42.0 |
| 03:00 AM - 04:00 AM | 46.4 | 68.2 | 44.2 |
| 04:00 AM - 05:00 AM | 47.1 | 61.8 | 44.0 |
| 05:00 AM - 06:00 AM | 50.6 | 64.6 | 42.8 |
| 06:00 AM - 07:00 AM | 50.5 | 65.8 | 46.0 |
| 07:00 AM - 08:00 AM | 52.8 | 73.6 | 48.5 |
| 08:00 AM - 09:00 AM | 51.4 | 77.9 | 46.1 |
| 09:00 AM - 10:00 AM | 49.8 | 81.1 | 44.2 |

Standard (dB(A))
Reference Method : ISO1996-1 and 1996-2
Standard 1. ใช้มาตรฐานตามค่ามาตรฐานของเสียงดัง (พ.ร.บ. 2540) สำหรับแหล่งกำเนิดเสียงในชุมชน
2. ใช้มาตรฐานตามค่ามาตรฐานเสียงจากโรงงานอุตสาหกรรม และระดับเสียงที่มาจากโรงไฟฟ้า
พ.ร.บ. พ.ศ. 2548

Technical Management
Thanitak.

Thaicha Kulsumong
Scientist (4)

Approved by

Supt S.

Supot Salmateh
Section Head

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13430-617 EMAIL

ภาคผนวก ค-4

คุณภาพน้ำทิ้งจากระบบการผลิต



Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Puak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location: GTS4

TESTING
No.0042
Lot ID: 2371082
Date Received : Jul 03, 2023
Date Reported : Jul 12, 2023
Report Number : 2689956-1

Page 1 of 2

| | | | | | | | |
|--|--|-----|-----------|--------|---------------------------|--|------------------|
| Sample Number | 2371082-1 | | | | | | |
| Sample Date | Jul 03, 2023 11:30 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | น้ำทิ้งโรงงาน | | | | | | |
| Date Analysis Commenced | Jul 03, 2023 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment preservation standards (APHA, USEPA) | | | | | | |
| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <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 |
| Color (at Original pH) | ADMI | - | 5 | 12 | ≤600 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 12 | ≤600 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤10 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3520 B | Rayong |
| pH at 25 degree C * | - | - | - | 7.7 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 30.5 | ≤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 | 164 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 6 | ≤200 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | 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 : Narurat Thammasaro รหัสผู้เก็บ 7-323-a-9477

Remark:

Technical Management

N. Banphatit
Narumon Banchoangkit
Supervisor

Approved by

D. Changchon
Dej Changchon
Senior Manager

รหัสผู้เก็บ 7-323-a-9442

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AP(TH) : 616/10 Moo 5 T. Muanam Khru A. Buakdaeng Rayong 21140 Thailand รหัสผู้เก็บ 7-323-a-9442 466 0 3304 8555 466 0 3304 8556
ANALYST: NARUMON BANCHOANGKIT, SENIOR MANAGER: DEJ CHANGCHON, ALS (TH) Co., Ltd. An ALS Limited Company

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1301431 (TH)

5-Report_LAB_01.pdf (10/15/20)



Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Puak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location: GTS4

TESTING
No.0042
Lot ID: 2371082
Date Received : Jul 03, 2023
Date Reported : Jul 12, 2023
Report Number : 2689956-1

Page 2 of 2

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

Technical Management

N. Banphatit
Narumon Banchoangkit
Supervisor

Approved by

D. Changchon
Dej Changchon
Senior Manager

รหัสผู้เก็บ 7-323-a-9442

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AP(TH) : 616/10 Moo 5 T. Muanam Khru A. Buakdaeng Rayong 21140 Thailand รหัสผู้เก็บ 7-323-a-9442 466 0 3304 8555 466 0 3304 8556
ANALYST: NARUMON BANCHOANGKIT, SENIOR MANAGER: DEJ CHANGCHON, ALS (TH) Co., Ltd. An ALS Limited Company

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RIGHT SOLUTIONS

1301431 (TH)

5-Report_LAB_01.pdf (10/15/20)



Analysis / Test Report

Client : Gulf TSA Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location : GT54

TESTING
No.0042
Lot ID: 2376496

Date Received : Aug 04, 2023

Date Reported : Aug 11, 2023

Report Number : 2702192-1

Page 1 of 2

| | |
|-------------------------|--|
| Sample Number | 2376496-1 |
| Sample Date | Aug 04, 2023 10:45 AM |
| Sample Description | Wastewater |
| Location | ในพื้นที่โรงงาน |
| Date Analysis Commenced | Aug 04, 2023 |
| Condition of Sample | Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------------------|--|------------------|
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <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 |
| Color (at Original pH) | ADMI | - | 5 | 10 | ≤600 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 9 | ≤600 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | 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 * | - | - | - | 7.3 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (6) | Rayong |
| Temperature * | Degree C | - | - | 29.8 | ≤45 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 32 | ≤3000 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤200 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | 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 : Narurat thammassaro รหัสพนักงาน 3-323-9-9477

Remark :

Technical Management

N. Banphit

Narumon Banphongkit
Supervisor
รหัสพนักงาน 3-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
รหัสพนักงาน 3-323-9-9442

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13311461/THAIL

S.16-00001_AE_06_11-13-1549H



Analysis / Test Report

Client : Gulf TSA Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location : GT54

TESTING
No.0042
Lot ID: 2376496

Date Received : Aug 04, 2023

Date Reported : Aug 11, 2023

Report Number : 2702192-1

Page 2 of 2

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

Technical Management

N. Banphit

Narumon Banphongkit
Supervisor
รหัสพนักงาน 3-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
รหัสพนักงาน 3-323-9-9442

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RIGHT SOLUTIONS

13311461/THAIL

S.16-00001_AE_06_11-13-1549H



Project Location: GTS4

Lot ID: 2393204
Date Received : Sep 04, 2023
Date Reported : Sep 11, 2023
Report Number : 2741977-1

Page 2 of 2

| Analyte | Unit | LOD | LOQ (10x) | Result | Guideline / Specification | Method | Testing Location |
|---------|------|-----|--------------|--------|------------------------------|--------|---------------------|
|---------|------|-----|--------------|--------|------------------------------|--------|---------------------|

| Water Testing | | Specification | | Specification | | | |
|--|----------|---------------|-----|---------------|---------|--|--------|
| | | (LOR) | | | | | |
| 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 |
| Color (at Original pH) | ADMI | - | 5 | 14 | ≤600 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 12 | ≤600 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤10 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C * | - | - | - | 7.6 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 · H (5) | Rayong |
| Temperature * | Degree C | - | - | 33.2 | ≤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 | 88 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤200 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Remark.

RIGHT SOLUTIONS

4. Report: Air Quality Index



Project Location: GTSA

Lot ID: 2393204
Date Received : Sep 04, 2023
Date Reported : Sep 11, 2023
Report Number: 2741977-1

Page 2 of 2

www.kluweronline.nl

RIGHT SOLUTIONS

S:\reports\AR_GL_GL (3 ITEM)



Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT54

TESTING
No.0042
Lot ID: 23107365
Date Received : Oct 04, 2023
Date Reported : Oct 11, 2023
Report Number : 2774989-1

Page 1 of 2

| | | | | | | | |
|--|---|-----|-----------|--------|---------------------------|--|------------------|
| Sample Number | 23107365-1 | | | | | | |
| Sample Date | Oct 04, 2023 11:01 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | แม่น้ำห้วยกรวย | | | | | | |
| Date Analysis Commenced | Oct 04, 2023 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and two plastic bottles; sample containers comply to pretreatment preservation standards (APHA, USEPA) | | | | | | |
| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <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 |
| Color (at Original pH) | ADMI | - | 5 | 16 | ≤600 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 15 | ≤600 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Oil & Grease * | mg/L | - | 3 | <3 | ≤10 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B | Rayong |
| pH at 25 degree C * | | - | - | 7.6 | 5.5-9.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 – H (6) | Rayong |
| Temperature * | Degree C | - | - | 28.6 | ≤45 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 336 | ≤3000 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 5 | ≤200 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | 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 : Surawit Nareppong รหัสประจำตัว 3-323-9-0011

Remark :

Technical Management

N. Bangpit
Narumon Banchoangkit
Supervisor
รหัสประจำตัว 3-323-9-9445

Approved by

D. Chingchon
Dej Chingchon
Senior Manager
รหัสประจำตัว 3-323-9-9442

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RIGHT SOLUTIONS

23107365-1

S. Jiraporn, AS, CL, ref 141294



Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT54

TESTING
No.0042
Lot ID: 23107365
Date Received : Oct 04, 2023
Date Reported : Oct 11, 2023
Report Number : 2774989-1

Page 2 of 2

LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantization) / 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. Bangpit
Narumon Banchoangkit
Supervisor
รหัสประจำตัว 3-323-9-9445

Approved by

D. Chingchon
Dej Chingchon
Senior Manager
รหัสประจำตัว 3-323-9-9442

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RIGHT SOLUTIONS

23107365-1

S. Jiraporn, AS, CL, ref 141294



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location: GT54

TESTING
No.0042
Lot ID: 23125370
Date Received : Nov 01, 2023
Date Reported : Nov 08, 2023
Report Number : 2818136-1

Page 1 of 2

| | | | | | | | |
|--|--|-----|-----------|--------|---------------------------|---|------------------|
| Sample Number | 23125370-1 | | | | | | |
| Sampled Date | Nov 01, 2023 10:35 AM | | | | | | |
| Sample Description | Wastewater | | | | | | |
| Location | ในพื้นที่โรงงาน | | | | | | |
| Date Analysis Commenced | Nov 01, 2023 | | | | | | |
| Condition of Sample | Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |
| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
| Water Testing | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤500 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O ₂ G | Rayong |
| Color (at Original pH) | ADMI | - | 5 | 21 | ≤600 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 21 | ≤600 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | 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 |
| Temperature * | Degree C | - | - | 32.9 | ≤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 | 288 | ≤3000 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 11 | ≤200 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | 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 : Narurat thammassaro รหัสผู้ตรวจ 3-323-9-9477

Remark :

Technical Management
N.Bangphit
Narumon Banchoangkit
Supervisor
รหัสผู้ตรวจ 3-323-9-9445

Approved by
Dej Changchon
Senior Manager
รหัสผู้ตรวจ 3-323-9-9442

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location: GT54

TESTING
No.0042
Lot ID: 23125370
Date Received : Nov 01, 2023
Date Reported : Nov 08, 2023
Report Number : 2818136-1

Page 2 of 2

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.Bangphit
Narumon Banchoangkit
Supervisor
รหัสผู้ตรวจ 3-323-9-9445

Approved by
Dej Changchon
Senior Manager
รหัสผู้ตรวจ 3-323-9-9442

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Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT54

TESTING
No.0042
Lot ID: 23135893
Date Received : Dec 04, 2023
Date Reported : Dec 12, 2023
Report Number : 2842278-1

Page 1 of 2

| Sample Number | Sample Date | Sample Description | Location | Date Analysis Commenced | Condition of Sample | Analyte | Unit | LOD | LOQ (LOD) | Result | Guideline / Specification | Method | Testing Location |
|--|-----------------------|--------------------|----------------|-------------------------|--|---------|----------|-----|-----------|--------|---------------------------|--|------------------|
| 23135893-1 | Dec 04, 2023 10:30 AM | Wastewater | เขื่อนลำนางรอง | Dec 04, 2023 | Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment : preservation standards (APHA, USEPA) | | | | | | | | |
| 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 C | Rayong |
| Color (at Original pH) | | | | | | | ADMI | - | 5 | 15 | ≤600 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | | | | | | | ADMI | - | 5 | 13 | ≤600 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | 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 |
| Temperature * | | | | | | | Degree C | - | - | 29.3 | ≤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 | 292 | ≤3000 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | | | | | | | mg/L | - | 5 | <5 | ≤200 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | 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 : Nurat thannasorn วิธณานนท์ 3-323-a-9477

Technical Management

N. Banphit
Narumon Banchoangkit
Supervisor
วิธณานนท์ 3-323-a-9445

Approved by

D. Chingchon
Dej Chingchon
Senior Manager
วิธณานนท์ 3-323-a-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. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced or copied in full.

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Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT54

TESTING
No.0042
Lot ID: 23135893
Date Received : Dec 04, 2023
Date Reported : Dec 12, 2023
Report Number : 2842278-1

Page 2 of 2

Remark :
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Analyticals marked * refers 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. Banphit
Narumon Banchoangkit
Supervisor
วิธณานนท์ 3-323-a-9445

Approved by

D. Chingchon
Dej Chingchon
Senior Manager
วิธณานนท์ 3-323-a-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. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced or copied in full.

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ภาคผนวก ค-5

คุณภาพน้ำที่ระบายจากหอหล่อเย็น



Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Puak Daeng, Rayong
Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

TESTING
No.0042
Lot ID: 2371083
Date Received : Jul 03, 2023
Date Reported : Jul 10, 2023
Report Number : 268958-1

Page 1 of 2

| Sample Number | 2371083-1 | Unit | LOD | LOQ (LOF) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
|--|---|------|-----------|-----------|---------------|---------------|--|------------------|------------------|
| Sampled Date | Jul 03, 2023 11:15 AM | | | | | | | | |
| Sample Description | Wastewater | | | | | | | | |
| Location | บริเวณน้ำเสีย | | | | | | | | |
| Date Analysis Commenced | Jul 03, 2023 | | | | | | | | |
| Condition of Sample | Contained in one 800 bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | | | |
| Analyte | Unit | LOD | LOQ (LOF) | Result | Guideline (1) | Guideline (2) | Method | Testing Location | |
| Water Testing | | | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | No Standard | Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O.G | Rayong | |
| Color (at Original pH) | ADMI | - | 5 | 17 | ≤300 | No Standard | Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong | |
| Color (at pH 7.0) | ADMI | - | 5 | 16 | ≤300 | No Standard | Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong | |
| pH at 25 degree C * | | - | - | 8.1 | 5.5-9.0 | No Standard | Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong | |
| Temperature * | Degree C | - | - | 31.9 | ≤40 | ≤34 | 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 | 920 | ≤3000 | ≤1300 | Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong | |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | ≤50 | No Standard | Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong | |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf TSC Co., Ltd.

Sampling By : Naruol thamasaro รหัสผู้ควบคุม 3-323-9-9477, Panupong Manit รหัสผู้ควบคุม 3-204-9-8600

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

Technical Management : N. Banphit
Supervisor : Narumon Banchoangkit
รหัสผู้ควบคุม 3-323-9-9445

Approved by : D. Chanchon
Senior Manager : Dey Chanchon
รหัสผู้ควบคุม 3-323-9-9442

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Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Puak Daeng, Rayong
Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

TESTING
No.0042
Lot ID: 2371083
Date Received : Jul 03, 2023
Date Reported : Jul 10, 2023
Report Number : 268958-1

Page 2 of 2

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

Technical Management : N. Banphit
Supervisor : Narumon Banchoangkit
รหัสผู้ควบคุม 3-323-9-9445

Approved by : D. Chanchon
Senior Manager : Dey Chanchon
รหัสผู้ควบคุม 3-323-9-9442

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Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location :GTS4

Analysis / Test Report

TESTING
No.0042
Lot ID: 2376497
Date Received : Aug 04, 2023
Date Reported : Aug 11, 2023
Report Number : 2702193-1

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

Page 2 of 2



TESTING
No.0042
Lot ID: 2376497
Date Received : Aug 04, 2023
Date Reported : Aug 11, 2023
Report Number : 2702193-1



Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location :GTS4

Analysis / Test Report

Lot ID: 2376497
Date Received : Aug 04, 2023
Date Reported : Aug 11, 2023
Report Number : 2702193-2

Page 1 of 1

Sample Number 2376497-1
Sampled Date Aug 04, 2023 10:35 AM
Sample Description Wastewater
Location วนอุทยานเขาฉกรรจ์
Date Analysis Commenced Aug 05, 2023
Condition of Sample Contained in one BOD bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)

| Analyte | Unit | LOD | LOQ (LOD) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------|------|-------|-----------|--------------|---------------|---------------|---|------------------|
| Metals Testing | | | | | | | | |
| Calcium | mg/L | 0.003 | 0.005 | 3.93 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium | mg/L | 0.003 | 0.005 | 1.23 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR | - | - | - | 5.10 | No Standard | 0-10 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium | mg/L | 0.003 | 0.005 | 8.19 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | | |
| Chloride | mg/L | 0.05 | 0.1 | Not Detected | No Standard | ≤1.0 | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen | mg/L | - | 0.1 | 7.1 | No Standard | ≥4 | Standard methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C) | Rayong |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry and Commerce of Thailand (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T54 Co., Ltd.

Sampling By : Narunat thammakaro รหัสประจำตัว 3-323-4-9477, Panupong Manit วรณัฐกุล รหัสประจำตัว 3-204-4-8600

Remark :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

The above results are valid only for the analyzed samples as indicated in this report. This part of the report or findings may be reproduced in any form without written permission from the laboratory. The laboratory may not be held responsible for the results of the analysis if the sample is not properly preserved or if the sample is not representative of the lot.

Approved by

Savitree N
Savitree Nolsanang
Manager

ALS 104 Phatthana-an 40, Phatthana-an Rd., Khwaeng Phatthana-an, Khet Suan Luang, Bangkok 10250 Thailand Phone : +66 0 2760 3000 Fax : +66 0 2760 3197
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5. (Rev.01) AL 20.04 (1.0.2704)



Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location :GTS4

Analysis / Test Report

TESTING
No.0042
Lot ID: 2376497
Date Received : Aug 04, 2023
Date Reported : Aug 11, 2023
Report Number : 2702193-1

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

Page 2 of 2



TESTING
No.0042
Lot ID: 2376497
Date Received : Aug 04, 2023
Date Reported : Aug 11, 2023
Report Number : 2702193-1



Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location :GTS4

Analysis / Test Report

Lot ID: 2376497
Date Received : Aug 04, 2023
Date Reported : Aug 11, 2023
Report Number : 2702193-2

Page 1 of 1

Sample Number 2376497-1
Sampled Date Aug 04, 2023 10:35 AM
Sample Description Wastewater
Location วนอุทยานเขาฉกรรจ์
Date Analysis Commenced Aug 05, 2023
Condition of Sample Contained in one BOD bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)

| Analyte | Unit | LOD | LOQ (LOD) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------|------|-------|-----------|--------------|---------------|---------------|---|------------------|
| Metals Testing | | | | | | | | |
| Calcium | mg/L | 0.003 | 0.005 | 3.93 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium | mg/L | 0.003 | 0.005 | 1.23 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR | - | - | - | 5.10 | No Standard | 0-10 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium | mg/L | 0.003 | 0.005 | 8.19 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | | |
| Chloride | mg/L | 0.05 | 0.1 | Not Detected | No Standard | ≤1.0 | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen | mg/L | - | 0.1 | 7.1 | No Standard | ≥4 | Standard methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C) | Rayong |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry and Commerce of Thailand (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T54 Co., Ltd.

Sampling By : Narunat thammakaro รหัสประจำตัว 3-323-4-9477, Panupong Mani วรณัฐกุล รหัสประจำตัว 3-204-4-8600

Remark :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

The above results are valid only for the analyzed samples as indicated in this report. This part of the report or findings may be reproduced in any form without written permission from the laboratory. The laboratory may not be held responsible for the results of the analysis if the sample is not properly preserved or if the sample is not representative of the lot.

Approved by

Savitree N
Savitree Nolsanang
Manager

ALS 104 Phatthana-an 40, Phatthana-an Rd., Khwaeng Phatthana-an, Khet Suan Luang, Bangkok 10250 Thailand Phone : +66 0 2760 3000 Fax : +66 0 2760 3197
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5. (Rev.01) AL 20.04 (1.0.2704)



Project Location :GTS4

Date Reported : Sep 12, 2021
Report Number : 2741978-1

Condition of Sample
 Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, IISFPA)

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017). Guideline (2) : Environmental Impact Assessment Report of Gulf TSK Co., Ltd.

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

ทะเบียนเลขที่ ว-323-ศ-9442

www.alsglobal.com

5 Reports: AN-23, col 3 25994



Project Location :GTS4

Date Reported : Sep 12, 2011
Report Number : 2741978-1

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

**Narumon Banchongkit
Supervisor**

www.alsglobal.com

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location : GT54

TESTING
No.0009
Lot ID: 2393205
Date Received : Sep 04, 2023
Date Reported : Sep 12, 2023
Report Number : 2741978 2

Page 1 of 1

| Sample Number | Sampled Date | Sample Description | Location | Date Analysis Commenced | Condition of Sample |
|---------------|-----------------------|--------------------|-------------|-------------------------|---|
| 2393205-1 | Sep 04, 2023 10:20 AM | Wastewater | ภายในโรงงาน | Sep 05, 2023 | Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------|------|-------|-----------|--------------|---------------|---------------|---|------------------|
| Metals Testing | | | | | | | | |
| Calcium * | mg/L | 0.003 | 0.005 | 4.05 | No Standard | No Standard | In-house method - STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium * | mg/L | 0.003 | 0.005 | 1.23 | No Standard | No Standard | In-house method - STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR * | | | | 4.72 | No Standard | 0-10 | In-house method - STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium * | mg/L | 0.003 | 0.005 | 7.67 | No Standard | No Standard | In-house method - STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | | |
| Chloride * | mg/L | 0.05 | 0.1 | Not Detected | No Standard | ≤10 | In-house method - STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen * | mg/L | | 0.1 | 6.6 | No Standard | ≥4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1900-C (C) | Rayong |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T54 Co., Ltd.

Sampling By : Harunat thammassaro รหัสโรงงาน 3-323-a-9477, Panupong Hanit รหัสโรงงาน 3-204-a-8600

Remark :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantization) / LOR (Limit of Reporting)
- Analyte(s) marked * refers 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 Nongniam
Manager

Approved by

Det Chingchon
Senior Manager

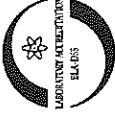
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E-mail : info@alsglobal.com

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1343 617 (PM)

5, Baan Lat, Lat 44 (S 5144)



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT54

TESTING
No.0042
Lot ID: 23107366
Date Received : Oct 04, 2023
Date Reported : Oct 12, 2023
Report Number : 2774999-1

Page 1 of 2

| Sample Number | Sampled Date | Sample Description | Location | Date Analysis Commenced | Condition of Sample |
|---------------|-----------------------|--------------------|-------------|-------------------------|---|
| 23107366-1 | Oct 04, 2023 10:51 AM | Wastewater | ภายในโรงงาน | Oct 04, 2023 | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------|---------------|--|------------------|
| Water Testing | | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| Color (at Original pH) | ADMI | - | 5 | 15 | ≤300 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 13 | ≤300 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| pH at 25 degree C * | | - | - | 8.0 | 5.5-9.0 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 31.1 | ≤40 | ≤34 | 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 | 692 | ≤3000 | ≤1300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 8 | ≤50 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T54 Co., Ltd.

Sampling By : Surawit Narapong รหัสโรงงาน 3-323-a-6011, Samut Khumphee รหัสโรงงาน 3-204-a-7830

Remark :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantization) / LOR (Limit of Reporting)
- Analyte(s) marked * refers not included in scope of Accreditation ISO/IEC 17025.

Approved by
N. Banphit
Narumon Banchoangkit
Supervisor

Approved by

Det Chingchon
Senior Manager

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1343 617 (PM)

5, Baan Lat, Lat 44 (S 5144)



Analysis / Test Report

Lot ID: 23107366
Date Received : Oct 04, 2023
Date Reported : Oct 12, 2023
Report Number : 2774999-1

1991

False

Lot ID: 23107366
Date Received : Oct 04, 2012
Date Reported : Oct 12, 2012
Report Number : 2774999

Page 10 of 10

| | | | | | | | | |
|-------------------------|--|-------|-----------|--------------|---------------|---------------|---|------------------|
| Sample Number | 23107366-1 | | | | | | | |
| Sampled Date | Oct 04, 2023 10:51 AM | | | | | | | |
| Sample Description | Wastewater | | | | | | | |
| Location | uaññññññññññ | | | | | | | |
| Date Analysis Commenced | Oct 05, 2023 | | | | | | | |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers empty to pretreatment - preservation standards (APHA, USEPA) | | | | | | | |
| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
| Metals Testing | | | | | | | | |
| Calcium | meq/L | 0.003 | 0.005 | 3.79 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium | meq/L | 0.003 | 0.005 | 1.15 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR | - | - | - | 4.72 | No Standard | 0-10 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium | meq/L | 0.003 | 0.005 | 7.41 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | | |
| Chlorite | mg/L | 0.05 | 0.1 | Not Detected | No Standard | ≤1.0 | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen | mg/L | - | 0.1 | 7.4 | No Standard | ≥4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C) | Rayong |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T54 Co., Ltd.

Remark :
 - LOD : Limit of Detection
 - " \leq " : Lower than LOD (Limit of Quantization) / LOR (Limit of Reporting)

Approved by

5

Dej Changchon
Senior Manager

หมายเลข 7-323-8-9442

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

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M/S. MAENAM KHU A. PHUKDAENG ROAD 21140 ARIYO 5 THAI AN ALS LIMITED COMPANY

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5 (Reports: A9 2G) (2011 09 05 AM)

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William

mon Chaimangwut
Scientist (3)

Address: 104 Phatthanakan Rd., Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10350 Thailand. E-mail: +66 0 2760 3000 Fax: +66 0 2760 3197
 Attn: Lapinwong Chaiyapattana Co., Ltd. An ALS Limited Company

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13431 617 EMAN.

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Analysis / Test Report

Client : Gulf TSA Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502169

Project Name : Monitoring EIA

Project Location : GTS4

TESTING
No.0042
Lot ID: 23125372

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2818139-1

Page 1 of 2

Page 2 of 2

Sample Number 23125372-1

Sample Date Nov 01, 2023 10:25 AM

Sample Description Wastewater

Location ต.บ้านใหม่ อ.บ้านค่าย จ.ระยอง

Date Analysis Commenced Nov 01, 2023

Condition of Sample Contained in one 800 bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------|---------------|---|------------------|
| Water Testing | | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | No Standard | Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| Color (at Original pH) | ADMI | - | 5 | 12 | ≤300 | No Standard | Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 12 | ≤300 | No Standard | Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| pH at 25 degree C * | - | - | - | 8.0 | 5.5-9.0 | No Standard | Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 30.6 | ≤40 | ≤34 | Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2550 D | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 700 | ≤3000 | ≤1300 | Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 6 | ≤50 | No Standard | Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Guideline (2) : Environmental Impact Assessment Report of Gulf TSA Co., Ltd.

Sampling By : ธารนัท ธารนิมมานะ ๓๖๑๙๓๗ ๓-๓๒๓-๙๔๗๗, Panupong Manit ๓๖๑๙๓๗ ๓-๓๐๓-๘๖๐๐

Remark :

LOD : Limit of Detection

C : Limit then LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

* Analysis marked * figure not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banphit

Narumon Banchoangkit

Supervisor

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Approved by

D. Chongchon

Deg. Chongchon

Senior Manager

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

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13431-41/ (PWA)

5. Report, A3, 304 (P.1) : 2024



Analysis / Test Report

Client : Gulf TSA Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502169

Project Name : Monitoring EIA

Project Location : GTS4

TESTING
No.0042
Lot ID: 23125372

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2818139-1

Page 1 of 2

Page 2 of 2

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

Technical Management

N. Banphit

Narumon Banchoangkit

Supervisor

๓๖๑๙๓๗ ๓-๓๒๓-๙๔๔๕

Approved by

D. Chongchon

Deg. Chongchon

Senior Manager

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

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13431-41/ (PWA)

5. Report, A3, 304 (P.1) : 2024



Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT&S4

Lot ID: 23125372
Date Received : Nov 01, 2023
Date Reported : Nov 09, 2023
Report Number : 2818139-2

Page 1 of 1

| Sample Number | 23125372-1 |
|-------------------------|---|
| Sample Date | Nov 01, 2023 10:25 AM |
| Sample Description | Wastewater |
| Location | ในพื้นที่เม้าด์ |
| Date Analysis Commenced | Nov 02, 2023 |
| Condition of Sample | Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------|------|-------|-----------|--------------|---------------|---------------|---|------------------|
| Metals Testing | | | | | | | | |
| Calcium | mg/L | 0.003 | 0.005 | 2.21 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium | mg/L | 0.003 | 0.005 | 0.65 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR | - | - | - | 5.20 | No Standard | 0-10 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium | mg/L | 0.003 | 0.005 | 6.22 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | | |
| Chloride | mg/L | 0.05 | 0.1 | Not Detected | No Standard | ≤1.0 | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen | mg/L | - | 0.1 | 7.0 | No Standard | ≥4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C) | Rayong |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, 0.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T&S Co., Ltd.

Sampling By : Nararat thammassaro รหัสประจำตัว 3-323-9-9477 , Panupong Manit รหัสประจำตัว 3-204-9-8600

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

N. Banphit

Approved by

Nararat Banphongkit
Supervisor

ATOPH 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand TEL: +66 0 3304 8555 FAX: +66 0 3304 8556
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5.18.00001_A4_201.01.1.5.18P00



Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT&S4

TESTING
No.0042
Lot ID: 23135894
Date Received : Dec 04, 2023
Date Reported : Dec 13, 2023
Report Number : 2842280-1

Page 1 of 2

| Sample Number | 23135894-1 |
|-------------------------|---|
| Sample Date | Dec 04, 2023 10:10 AM |
| Sample Description | Wastewater |
| Location | ในพื้นที่เม้าด์ |
| Date Analysis Commenced | Dec 04, 2023 |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
|--|----------|-----|-----------|--------|---------------|---------------|--|------------------|
| Water Testing | | | | | | | | |
| BOD (5 days at 20 Degree C) | mg/L | - | 2.0 | <2.0 | ≤20 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Rayong |
| Color (at Original pH) | ADMI | - | 5 | 15 | ≤300 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| Color (at pH 7.0) | ADMI | - | 5 | 12 | ≤300 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F | Rayong |
| pH at 25 degree C * | - | - | - | 8.1 | 5.5-9.0 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |
| Temperature * | Degree C | - | - | 29.4 | ≤40 | ≤34 | 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 | 852 | ≤3000 | ≤1300 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | 10 | ≤50 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, 0.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T&S Co., Ltd.

Sampling By : Nararat thammassaro รหัสประจำตัว 3-323-9-9477 , Panupong Manit รหัสประจำตัว 3-204-9-8600

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

Technical Management

Approved by

N. Banphit
Supervisor
รหัสประจำตัว 3-323-9-9485

Doi Changchon
Senior Manager
รหัสประจำตัว 3-323-9-9442

Results apply to the sample(s) as submitted, unless the sample(s) was re-analyzed by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.

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RIGHT SOLUTIONS

13101437/04AR

5.18.00001_A4_201.01.1.5.18P00



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT54



TESTING
No.0042
Lot ID: 23135894
Date Received : Dec 04, 2023
Date Reported : Dec 13, 2023
Report Number : 2842280-1

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

Page 2 of 2

Technical Management

N. Banphit
Narumon Banphonglit
Supervisor
โทรศัพท์ 3-323 3 9445

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 3-323 3-9442

Results apply to the samples as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or stored in any system without written consent from the laboratory.

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NIGHT SOLUTIONS

13401-561 (PAB)

S. (Resemb.) M. 264 up (4-3594)



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GT54

Lot ID: 23135894
Date Received : Dec 04, 2023
Date Reported : Dec 13, 2023
Report Number : 2842280-2

Page 1 of 1

Sample Number 23135894-1

Sampled Date Dec 04, 2023 10:10 AM

Sample Description Wastewater

Location อุบลใหญ่

Date Analysis Commenced Dec 06, 2023

Condition of Sample Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

| Analyte | Unit | LOQ | Result | Guideline (1) | Guideline (2) | Method | Testing Location |
|-----------------------|------|-------|--------|---------------|---------------|---|------------------|
| Metals Testing | | | | | | | |
| Cadmium | mg/L | 0.003 | 3.60 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium | mg/L | 0.003 | 1.09 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR | - | 0.10 | 4.61 | No Standard | 0-10 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium | mg/L | 0.003 | 7.05 | No Standard | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | |
| Chloride | mg/L | 0.05 | 0.1 | Not Detected | No Standard | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen | mg/L | - | 7.2 | No Standard | ≥4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Q (C) | Rayong |

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T54 Co., Ltd.

Sampling By : Narumon thammassaro โทรศัพท์ 3-323-3-9477, Panupong Hanit โทรศัพท์ 3-204-3-8600

Remark

LOQ : Limit of Detection

"<" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 3-323 3-9442

Approved by

Chamatt L.
Chanatagarn Inchoon
Section Head

Results apply to the samples as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced or stored in any system without written consent from the laboratory. ALS Laboratory Group (Thailand) Public Co., Ltd. An ALS Limited Company
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โทรศัพท์ 3-323 3-9445 โทรสาร 3-323 3-9446 An ALS Limited Company

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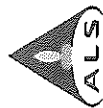
NIGHT SOLUTIONS

13401-561 (PAB)

S. (Resemb.) M. 264 up (4-3594)

ภาคผนวก ค-6

คุณภาพน้ำผิวดิน



Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Client : Gulf T54 Co., Ltd.
87 N.Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location: GT54

Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Page 1 of 12

| | |
|-------------------------|---|
| Sample Number | 23107360-1 |
| Sampled Date | Oct 18, 2023 9:40 AM |
| Sample Description | Surface water |
| Location | อาคาร 11F ถนนวิภาวดีรังสิต 200 ม.รพ. |
| Date Analysis Commenced | Oct 18, 2023 |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|-------|-----------|--------------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Calcium * | mg/L | 0.003 | 0.005 | 0.28 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium * | mg/L | 0.003 | 0.005 | 0.15 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR * | - | - | - | 0.63 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium * | mg/L | 0.003 | 0.005 | 0.29 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | |
| BOD * | mg/L | - | 2 | 3.0 | ≤4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210-B, part 4500 - O-C | Rayong |
| Chlorite * | mg/L | 0.05 | 0.1 | Not Detected | No Standard | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1993, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen * | mg/L | - | 0.1 | 6.5 | ≥2 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C) | Rayong |
| pH at 25 degree C | - | - | - | 7.2 | 5.0-9.0 | In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (6) | Rayong |

The above results are valid only for the analyzed samples as indicated in the report. The results are not valid for other samples without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

D. Chongchon
Dej Chongchon
Senior Manager

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NIGHT SOLUTIONS

13435-61 EMail

Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Client : Gulf T54 Co., Ltd.
87 N.Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location: GT54

Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Page 2 of 12

| | |
|-------------------------|---|
| Sample Number | 23107360-1 |
| Sampled Date | Oct 18, 2023 9:40 AM |
| Sample Description | Surface water |
| Location | อาคาร 11F ถนนวิภาวดีรังสิต 200 ม.รพ. |
| Date Analysis Commenced | Oct 18, 2023 |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|-----------------------------------|---|------------------|
| Water Testing | | | | | | | |
| Temperature * | Degree C | - | - | 31.7 | Not Change from natural condition | 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 | 81 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540-C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C * | mg/L | - | 5 | 11 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540-D | Rayong |

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n: Change from Natural condition not more than 3 degree C

Sampled By : Surawit Narapong

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.

Approved by

D. Chongchon
Dej Chongchon
Senior Manager

UTCHEP : 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand TEL : +66 0 3304 8555 FAX : +66 0 3304 8556

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NIGHT SOLUTIONS

13435-61 EMail



Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Client : Gulf T54 Co., Ltd.
87 M, Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Page 3 of 12

| | |
|-------------------------|---|
| Sample Number | 23107360-2 |
| Sample Date | Oct 18, 2023 10:15 AM |
| Sample Description | Surface water |
| Location | หน้าประตูรั้วบ้านเลขที่ 200 หมู่ 5 |
| Date Analysis Commenced | Oct 18, 2023 |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|-------|-----------|--------------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Calcium * | mg/L | 0.003 | 0.005 | 0.96 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium * | mg/L | 0.003 | 0.005 | 0.37 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR * | - | - | - | 0.91 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium * | mg/L | 0.003 | 0.005 | 0.74 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | |
| BOD * | mg/L | - | 2 | <2.0 | ≤4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Rayong |
| Chlorite * | mg/L | 0.05 | 0.1 | Not Detected | No Standard | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen * | mg/L | - | 0.1 | 8.2 | ≥2 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C) | Rayong |
| pH at 25 degree C | - | - | - | 7.5 | 5.0-9.0 | In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |

Approved by

Dej Changchon
Senior Manager

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RIGHT SOLUTIONS

13305-01/THAL

Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Client : Gulf T54 Co., Ltd.
87 M, Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Page 4 of 12

| | |
|-------------------------|---|
| Sample Number | 23107360-2 |
| Sample Date | Oct 18, 2023 10:15 AM |
| Sample Description | Surface water |
| Location | หน้าประตูรั้วบ้านเลขที่ 200 หมู่ 5 |
| Date Analysis Commenced | Oct 18, 2023 |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|-----------------------------------|---|------------------|
| Water Testing | | | | | | | |
| Temperature * | Degree C | - | - | 30.1 | Not Change from natural condition | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Dried at 180 degree C | mg/L | - | 5 | 170 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C * | mg/L | - | 5 | 14 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 D | Rayong |

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n: Change from Natural condition not more than 3 degree C
Sampled by : Suravit Narapong

Remark :

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

Approved by

Dej Changchon
Senior Manager

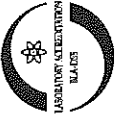
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RIGHT SOLUTIONS

13305-01/THAL



Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Client : Gulf T54 Co., Ltd.
87 N.Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location: GT54

Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Page 3 of 12

| | |
|-------------------------|---|
| Sample Number | 23107360-3 |
| Sampled Date | Oct 18, 2023 10:35 AM |
| Sample Description | Surface water |
| Location | แหล่งน้ำพื้นผิวในเขตโครงการ 200 เมตร |
| Date Analysis Commenced | Oct 18, 2023 |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|----------------|------|-------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Calcium * | mg/L | 0.003 | 0.005 | 1.43 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium * | mg/L | 0.003 | 0.005 | 0.42 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR * | - | - | - | 2.19 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium * | mg/L | 0.003 | 0.005 | 2.11 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |

| | | | | | | | |
|--------------------|------|------|-----|--------------|-------------|---|---------|
| Water Testing | | | | | | | |
| BOD * | mg/L | - | 2 | 2.7 | ≤4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Rayong |
| Chlorite * | mg/L | 0.05 | 0.1 | Not Detected | No Standard | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1993, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen * | mg/L | - | 0.1 | 7.7 | ≥2 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - O (C) | Rayong |
| pH at 25 degree C | | - | - | 7.7 | 5.0-9.0 | In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |

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Approved by

Dej Changchuan

Senior Manager

Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Client : Gulf T54 Co., Ltd.
87 N.Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location: GT54

Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Page 6 of 12

| | |
|-------------------------|---|
| Sample Number | 23107360-3 |
| Sampled Date | Oct 18, 2023 10:35 AM |
| Sample Description | Surface water |
| Location | แหล่งน้ำพื้นผิวในเขตโครงการ 200 เมตร |
| Date Analysis Commenced | Oct 18, 2023 |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|-----------------------------------|---|------------------|
| Water Testing | | | | | | | |
| Temperature * | Degree C | - | - | 30.8 | Not Change from natural condition | 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 | 350 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C * | mg/L | - | 5 | 15 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n: Change from Natural condition not more than 3 degree C

Sampled By : Surawit Narapong

Remark :

- LOD : Limit of Detection
- LOQ : Lower than LOQ (Unit of Quantization) / LOR (Unit of Reporting)
- "C" : Lower than LOQ (Unit of Quantization) / LOR (Unit of Reporting)
- Analysis marked * figure not included in scope of Accreditation ISO/IEC 17025.

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Approved by

Dej Changchuan

Senior Manager



Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Client : Gulf T&S Co., Ltd.
87 M,Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GTS4-4210500514
Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Client : Gulf T&S Co., Ltd.
87 M,Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GTS4-4210500514
Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Project Name : Monitoring EIA
Project Location : GTS4

Page 7 of 12

| | | | |
|-------------------------|--|---|--|
| Sample Number | | 23107360-4 | |
| Sampled Date | | Oct 18, 2023 10:50 AM | |
| Sample Description | | Surface water | |
| Location | | หน้าประตูรั้วหมู่บ้านสวน 200 units | |
| Date Analysis Commenced | | Oct 18, 2023 | |
| Condition of Sample | | Contained in four plastic bottles and one 800 bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|-------|-----------|--------------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Calcium * | mg/L | 0.003 | 0.005 | 1.22 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium * | mg/L | 0.003 | 0.005 | 0.41 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR * | - | - | - | 1.53 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium * | mg/L | 0.003 | 0.005 | 1.38 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | |
| BOD * | mg/L | - | 2 | <2.0 | ≤4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Rayong |
| Chlorite * | mg/L | 0.05 | 0.1 | Not Detected | No Standard | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen * | mg/L | - | 0.1 | 7.9 | ≥2 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C) | Rayong |
| pH at 25 degree C | - | - | - | 7.6 | 5.0-9.0 | In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |

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Approved by

D. Chuan

Dej Changchon
Senior Manager

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RIGHT SOLUTIONS

0305-011 (E&M)

Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Client : Gulf T&S Co., Ltd.
87 M,Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GTS4-4210500514
Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Client : Gulf T&S Co., Ltd.
87 M,Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GTS4-4210500514
Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Project Name : Monitoring EIA
Project Location : GTS4

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| | | | | | | | |
|--|---|-----|-----------|--------|-----------------------------------|---|------------------|
| Sample Number | 23107360-4 | | | | | | |
| Sampled Date | Oct 18, 2023 10:50 AM | | | | | | |
| Sample Description | Surface water | | | | | | |
| Location | หน้าประตูรั้วหมู่บ้านสวน 200 units | | | | | | |
| Date Analysis Commenced | Oct 18, 2023 | | | | | | |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | | | |
| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
| Water Testing | | | | | | | |
| Temperature * | Degree C | - | - | 30.7 | Not Change from natural condition | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B | Rayong |
| Total Dissolved Solids Oried at 180 degree C | mg/L | - | 5 | 244 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C * | mg/L | - | 5 | 60 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n: Change from Natural condition not more than 3 degree C
Sampled By : Surawit Narapong

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

Approved by

D. Chuan

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RIGHT SOLUTIONS

0305-011 (E&M)



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
87 N.Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GT54-4210500314
Project Name : Monitoring EIA
Project Location: GT54

TESTING
No.0042
Lot ID: 23107360
Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

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| | | | | | |
|-------------------------|---|--|--|--|--|
| Sample Number | 23107360-5 | | | | |
| Sampled Date | Oct 18, 2023 11:15 AM | | | | |
| Sample Description | Surface water | | | | |
| Location | สถานีพัฒนาที่ดิน กรุงเทพมหานคร/สุพรรณบุรี 2 ml. | | | | |
| Date Analysis Commenced | Oct 18, 2023 | | | | |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|-------|-----------|--------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Calcium * | mg/L | 0.003 | 0.005 | 0.86 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium * | mg/L | 0.003 | 0.005 | 0.29 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR * | - | - | - | 1.52 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium * | mg/L | 0.003 | 0.005 | 1.15 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |

| | | | | | | | |
|----------------------|------|------|-----|--------------|-------------|---|---------|
| Water Testing | | | | | | | |
| BOD * | mg/L | - | 2 | 2.8 | ≤4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Rayong |
| Chlorite * | mg/L | 0.05 | 0.1 | Not Detected | No Standard | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1993, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen * | mg/L | - | 0.1 | 9.5 | ≥2 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C) | Rayong |
| pH at 25 degree C | - | - | - | 8.9 | 5.0-9.0 | In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |

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Dej Changchon

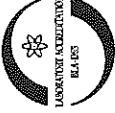
Dej Changchon
Senior Manager

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RIGHT SOLUTIONS

1340-60 PMS



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
87 N.Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GT54-4210500314
Project Name : Monitoring EIA
Project Location: GT54

TESTING
No.0042
Lot ID: 23107360
Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Page 10 of 12

| | | | | | |
|-------------------------|---|--|--|--|--|
| Sample Number | 23107360-5 | | | | |
| Sampled Date | Oct 18, 2023 11:15 AM | | | | |
| Sample Description | Surface water | | | | |
| Location | สถานีพัฒนาที่ดิน กรุงเทพมหานคร/สุพรรณบุรี 2 ml. | | | | |
| Date Analysis Commenced | Oct 18, 2023 | | | | |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) | | | | |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|-----------------------------------|---|------------------|
| Water Testing | | | | | | | |
| Temperature * | Degree C | - | - | 32.0 | Not Change from natural condition | 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 | 182 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C * | mg/L | - | 5 | 12 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n° Change from Natural condition not more than 3 degree C
Sampled By : Surawit Narapong

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

Approved by

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RIGHT SOLUTIONS

1340-60 PMS



Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Client : Gulf T54 Co., Ltd.
87 M,Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location: GTS4

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| | |
|-------------------------|---|
| Sample Number | 23107360-6 |
| Sample Date | Oct 18, 2023 11:35 AM |
| Sample Description | Surface water |
| Location | อำเภอห้วยน้ำริน อำเภอนาทม จังหวัดน่าน 4 ม |
| Date Analysis Commenced | Oct 18, 2023 |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|-----------------------|------|-------|-----------|--------------|---------------------------|---|------------------|
| Metals Testing | | | | | | | |
| Calcium * | mg/L | 0.003 | 0.005 | 0.87 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Magnesium * | mg/L | 0.003 | 0.005 | 0.29 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| SAR * | - | - | - | 1.54 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Sodium * | mg/L | 0.003 | 0.005 | 1.17 | No Standard | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Water Testing | | | | | | | |
| BOD * | mg/L | - | 2 | 3.7 | ≤4 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C | Rayong |
| Chlorite * | mg/L | 0.05 | 0.1 | Not Detected | No Standard | In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1 | Bangkok |
| Dissolved Oxygen * | mg/L | - | 0.1 | 7.9 | ≥2 | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-C (C) | Rayong |
| pH at 25 degree C | - | - | - | 9.0 | 5.0-9.0 | In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Rayong |

Approved by

D. Chuan

Dej Changchon
Senior Manager

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RIGHT SOLUTIONS

13106411 (EN)

Analysis / Test Report

TESTING
No.0042
Lot ID: 23107360

Date Received : Oct 18, 2023
Date Reported : Nov 02, 2023
Report Number : 2774986-1 C6

Client : Gulf T54 Co., Ltd.
87 M,Thai Tower All Season Place, 11th Floor, Wireless Road, Lumpini, Pathumwan,
Bangkok Thailand 10330
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location: GTS4

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| | |
|-------------------------|---|
| Sample Number | 23107360-6 |
| Sample Date | Oct 18, 2023 11:35 AM |
| Sample Description | Surface water |
| Location | อำเภอห้วยน้ำริน อำเภอนาทม จังหวัดน่าน 4 ม |
| Date Analysis Commenced | Oct 18, 2023 |
| Condition of Sample | Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method | Testing Location |
|--|----------|-----|-----------|--------|-----------------------------------|---|------------------|
| Water Testing | | | | | | | |
| Temperature * | Degree C | - | - | 32.1 | Not Change from natural condition | 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 | 184 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C | Rayong |
| Total Suspended Solids Dried at 103-105 degree C * | mg/L | - | 5 | 10 | No Standard | Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D | Rayong |

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, dated February 24, B.E. 2537 (Class 4)
n: Change from Natural condition not more than 3 degree C
Sampled by : Surawit Narapong

Remark :

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

Approved by

D. Chuan

Dej Changchon
Senior Manager

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RIGHT SOLUTIONS

13106411 (EN)

ภาคผนวก ค-7

ระดับเสียงภายในสถานประกอบการ



Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand 21140
Lot ID: 2376493
Date Received : Aug 21, 2023
Date Reported : Aug 24, 2023
Report Number: 275372-1

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

| | | | |
|---------------------|---------------------|--------------|-------------|
| Sample Number | 2376493-1 | | |
| Parameter | Noise (Leq 8 hrs.) | | |
| Location | Ultra Cooling Tower | | |
| Measurement Date | Aug 18, 2023 | | |
| Measurement by | Jaradrawee Sruksa | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 09:57 AM - 10:57 AM | 77.8 | 78.3 | 77.6 |
| 10:57 AM - 11:57 AM | 77.6 | 78.3 | 77.5 |
| 11:57 AM - 12:57 PM | 76.3 | 81.5 | 76.1 |
| 12:57 PM - 01:57 PM | 76.1 | 76.6 | 75.9 |
| 01:57 PM - 02:57 PM | 76.1 | 77.0 | 75.9 |
| 02:57 PM - 03:57 PM | 76.0 | 76.5 | 75.8 |
| 03:57 PM - 04:57 PM | 76.2 | 76.8 | 76.0 |
| 04:57 PM - 05:57 PM | 76.9 | 77.9 | 76.3 |

Technical Management

Tharitak.

Thantika Kulsumwong
Scientist (4)

Approved by

Supt S.

Supt Salameh
Section Head

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ALS LAB: 616/10 Moo 5 T Maenam Khu A Phrakdaeng Rayong 21140 Thailand

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RIGHT SOLUTIONS

13431-61/ EMAIL

S Vapanta, Air Noise ref (11 284M)



Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand 21140
Lot ID: 2376493
Date Received : Aug 21, 2023
Date Reported : Aug 24, 2023
Report Number: 275373-1

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

| | | | |
|---------------------|------------------------|--------------|-------------|
| Sample Number | 2376493-2 | | |
| Parameter | Noise (Leq 8 hrs.) | | |
| Location | Ultra Boiler Feed Pump | | |
| Measurement Date | Aug 18, 2023 | | |
| Measurement by | Jaradrawee Sruksa | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 10:09 AM - 11:09 AM | 79.3 | 80.7 | 79.0 |
| 11:09 AM - 12:09 PM | 79.0 | 80.1 | 78.7 |
| 12:09 PM - 01:09 PM | 79.0 | 81.9 | 78.6 |
| 01:09 PM - 02:09 PM | 79.1 | 81.0 | 78.7 |
| 02:09 PM - 03:09 PM | 79.1 | 81.7 | 78.7 |
| 03:09 PM - 04:09 PM | 79.1 | 80.9 | 78.7 |
| 04:09 PM - 05:09 PM | 79.1 | 81.1 | 78.7 |
| 05:09 PM - 06:09 PM | 79.2 | 81.2 | 78.8 |

Technical Management

Tharitak.

Thantika Kulsumwong
Scientist (4)

Approved by

Supt S.

Supt Salameh
Section Head

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RIGHT SOLUTIONS

13431-61/ EMAIL

S Vapanta, Air Noise ref (11 284M)



Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2376493
Date Received : Aug 21, 2023
Date Reported : Aug 24, 2023
Report Number: 2755374-1

Page 1 of 1

| | | | | |
|---------------------|--------------------|--------------|-------------|--|
| Sample Number | 2376493-3 | | | |
| Parameter | Noise (Leq 8 hrs.) | | | |
| Location | Ultra Gas Metering | | | |
| Measurement Date | Aug 18, 2023 | | | |
| Measurement by | Jaradawee Sruksa | | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) | |
| 09:45 AM - 10:45 AM | 66.3 | 75.0 | 66.0 | |
| 10:45 AM - 11:45 AM | 66.0 | 68.5 | 65.8 | |
| 11:45 AM - 12:45 PM | 66.1 | 69.0 | 65.9 | |
| 12:45 PM - 01:45 PM | 66.4 | 70.7 | 66.0 | |
| 01:45 PM - 02:45 PM | 66.6 | 72.4 | 66.0 | |
| 02:45 PM - 03:45 PM | 66.5 | 69.0 | 66.1 | |
| 03:45 PM - 04:45 PM | 66.2 | 68.7 | 65.9 | |
| 04:45 PM - 05:45 PM | 66.3 | 68.8 | 65.9 | |

Technical Management
Tharitak.
Scientist (t)
Thanita Kulsunwong

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Supt S.
Supot Salanteh
Section Head

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13431-61/ EMAIL
S. Vejaporn, Air Noise rpt (11 28AM)



Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2376493
Date Received : Aug 21, 2023
Date Reported : Aug 24, 2023
Report Number: 2755375-1

Page 1 of 1

| | | | |
|---------------------|--|--------------|-------------|
| Sample Number | 2376493-4 | | |
| Parameter | Noise (Leq 8 hrs.) | | |
| Location | Ultra Gas Turbine Accessories System (Ranarassathana GTG 11 use GTG12) | | |
| Measurement Date | Aug 18, 2023 | | |
| Measurement by | Jaradawee Sruksa | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 09:44 AM - 10:44 AM | 78.0 | 89.3 | 77.4 |
| 10:44 AM - 11:44 AM | 77.9 | 88.5 | 77.5 |
| 11:44 AM - 12:44 PM | 77.8 | 87.5 | 77.2 |
| 12:44 PM - 01:44 PM | 77.7 | 87.4 | 77.1 |
| 01:44 PM - 02:44 PM | 78.0 | 86.5 | 77.5 |
| 02:44 PM - 03:44 PM | 77.9 | 80.5 | 77.5 |
| 03:44 PM - 04:44 PM | 78.0 | 79.2 | 77.6 |
| 04:44 PM - 05:44 PM | 77.8 | 79.0 | 77.4 |

Technical Management
Tharitak.
Scientist (t)
Thanita Kulsunwong

Approved by
Supt S.
Supot Salanteh
Section Head

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13431-61/ EMAIL
S. Vejaporn, Air Noise rpt (11 28AM)



Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2376493
Date Received : Aug 21, 2023
Date Reported : Aug 24, 2023
Report Number: 2755376-1
P/O :
Project Name : Monitoring EIA
Project Location : GT54

Page 1 of 1

| | |
|---|--------------------------------------|
| Sample Number | 2376493-5 |
| Parameter | Noise (Leq 8 hrs.) |
| Location | Whana Steam Turbine Generator |
| Measurement Date | Aug 18, 2023 |
| Measurement by | Jaradrawee Siruksa |
| Time | |
| | Leq (dB(A)) Lmax (dB(A)) L90 (dB(A)) |
| 09:53 AM - 10:53 AM | 82.4 83.3 82.2 |
| 10:53 AM - 11:53 AM | 82.4 83.9 82.1 |
| 11:53 AM - 12:53 PM | 82.4 87.6 82.1 |
| 12:53 PM - 01:53 PM | 82.6 87.8 82.1 |
| 01:53 PM - 02:53 PM | 82.6 88.3 82.0 |
| 02:53 PM - 03:53 PM | 82.6 87.0 82.1 |
| 03:53 PM - 04:53 PM | 82.6 87.7 82.1 |
| 04:53 PM - 05:53 PM | 82.7 88.8 82.1 |
| Leq Average 8 hrs. (dB(A)) | 82.5 |
| Lmax (dB(A)) | 88.8 |
| Standard (dB(A)) | 140 |
| Reference Method : ISO1996-1 and 1996-2 | |
| Standard : Environmental Impact Assessment Report of Gulf TSA Co., Ltd. | |
| Environmental Impact Assessment Report of Gulf TSA Co., Ltd. | |
| การประเมินผลกระทบสิ่งแวดล้อมจากโรงไฟฟ้าพลังงานความร้อน | |
| ตามมาตรฐานวิธีประเมินผลกระทบสิ่งแวดล้อมจากโรงงาน | |

Technical Management : *Thanitak.* Approved by : *Supt S.*
Scientist (4) Supot Salameh
Section Head

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Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2376493
Date Received : Aug 21, 2023
Date Reported : Aug 24, 2023
Report Number: 2755377-1
P/O :
Project Name : Monitoring EIA
Project Location : GT54

Page 1 of 1

| | |
|---|--------------------------------------|
| Sample Number | 2376493-6 |
| Parameter | Noise (Leq 8 hrs.) |
| Location | Whana Steam Turbine Lube Oil Skid |
| Measurement Date | Aug 18, 2023 |
| Measurement by | Jaradrawee Siruksa |
| Time | |
| | Leq (dB(A)) Lmax (dB(A)) L90 (dB(A)) |
| 10:00 AM - 11:00 AM | 77.0 78.4 76.7 |
| 11:00 AM - 12:00 PM | 76.6 78.6 76.3 |
| 12:00 PM - 01:00 PM | 76.6 77.7 76.2 |
| 01:00 PM - 02:00 PM | 76.6 77.8 76.3 |
| 02:00 PM - 03:00 PM | 76.6 77.7 76.3 |
| 03:00 PM - 04:00 PM | 76.9 78.0 76.6 |
| 04:00 PM - 05:00 PM | 76.9 77.8 76.6 |
| 05:00 PM - 06:00 PM | 76.7 77.9 76.4 |
| Leq Average 8 hrs. (dB(A)) | 76.7 |
| Lmax (dB(A)) | 78.6 |
| Standard (dB(A)) | 140 |
| Reference Method : ISO1996-1 and 1996-2 | |
| Standard : Environmental Impact Assessment Report of Gulf TSA Co., Ltd. | |
| Environmental Impact Assessment Report of Gulf TSA Co., Ltd. | |
| การประเมินผลกระทบสิ่งแวดล้อมจากโรงไฟฟ้าพลังงานความร้อน | |
| ตามมาตรฐานวิธีประเมินผลกระทบสิ่งแวดล้อมจากโรงงาน | |

Technical Management : *Thanitak.* Approved by : *Supt S.*
Scientist (4) Supot Salameh
Section Head

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Analysis / Test Report

Client : Gulf TSI Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Phrak Daeng, Rayong Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4
Lot ID: 23125341
Date Received : Nov 16, 2023
Date Reported : Nov 21, 2023
Report Number: 2842204-1

Page 1 of 1

| | |
|---|---------------------|
| Sample Number | 23125341-1 |
| Parameter | Noise (Leq 8 hrs.) |
| Location | สถานี Cooling Tower |
| Measurement Date | Nov 15, 2023 |
| Measurement by | Thitipong Buddaeng |
| Time | |
| 09:50 AM - 10:50 AM | 86.3 |
| 10:50 AM - 11:50 AM | 77.0 |
| 11:50 AM - 12:50 PM | 77.1 |
| 12:50 PM - 01:50 PM | 77.1 |
| 01:50 PM - 02:50 PM | 77.1 |
| 02:50 PM - 03:50 PM | 77.2 |
| 03:50 PM - 04:50 PM | 77.3 |
| 04:50 PM - 05:50 PM | 77.2 |
| Leq Average 8 hrs. (dB(A)) | 79.9 |
| Lmax (dB(A)) | 107.6 |
| Standard (dB(A)) | 85 |
| Reference Method : ISO 1996-1 and 1996-2 | |
| Standard : Environmental Impact Assessment Report of Gulf TSI Co., Ltd. ใช้มาตรฐานการประเมินค่าผลกระทบสิ่งแวดล้อม ตามมาตรฐานที่จัดทำขึ้นเพื่อวัตถุประสงค์ในการศึกษา | |

Technical Management

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Thantia Kulsuwong
Scientist (4)

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Supot Salantich
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13431-61/ EMAIL

S. Veeraporn, Air Noise rpt (10-47AM)



Analysis / Test Report

Client : Gulf TSI Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Phrak Daeng, Rayong Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4
Lot ID: 23125341
Date Received : Nov 16, 2023
Date Reported : Nov 21, 2023
Report Number: 2842205-1

Page 1 of 1

| | |
|---|------------------------|
| Sample Number | 23125341-2 |
| Parameter | Noise (Leq 8 hrs.) |
| Location | สถานี Boiler Feed Pump |
| Measurement Date | Nov 15, 2023 |
| Measurement by | Thitipong Buddaeng |
| Time | |
| 09:20 AM - 10:20 AM | 78.9 |
| 10:20 AM - 11:20 AM | 78.5 |
| 11:20 AM - 12:20 PM | 80.2 |
| 12:20 PM - 01:20 PM | 79.6 |
| 01:20 PM - 02:20 PM | 80.2 |
| 02:20 PM - 03:20 PM | 80.6 |
| 03:20 PM - 04:20 PM | 81.2 |
| 04:20 PM - 05:20 PM | 80.5 |
| Leq Average 8 hrs. (dB(A)) | 80.0 |
| Lmax (dB(A)) | 84.9 |
| Standard (dB(A)) | 85 |
| Reference Method : ISO 1996-1 and 1996-2 | |
| Standard : Environmental Impact Assessment Report of Gulf TSI Co., Ltd. ใช้มาตรฐานการประเมินค่าผลกระทบสิ่งแวดล้อม ตามมาตรฐานที่จัดทำขึ้นเพื่อวัตถุประสงค์ในการศึกษา | |

Technical Management

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13431-61/ EMAIL

S. Veeraporn, Air Noise rpt (10-47AM)



Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 23125341
Date Received : Nov 16, 2023
Date Reported : Nov 21, 2023
Report Number: 2842206-1

Page 1 of 1

| Sample Number | 23125341-3 |
|---|--|
| Parameter | Noise (Leq 8 hrs.) |
| Location | อุโมงค์ Gas Metering |
| Measurement Date | Nov 15, 2023 |
| Measurement by | Thilipong Buadhang |
| Time | |
| 09:42 AM - 10:42 AM | 64.1 |
| 10:42 AM - 11:42 AM | 63.1 |
| 11:42 AM - 12:42 PM | 66.5 |
| 12:42 PM - 01:42 PM | 64.5 |
| 01:42 PM - 02:42 PM | 64.8 |
| 02:42 PM - 03:42 PM | 64.9 |
| 03:42 PM - 04:42 PM | 64.8 |
| 04:42 PM - 05:42 PM | 64.8 |
| Leq Average 8 hrs. (dB(A)) | 64.8 |
| Lmax (dB(A)) | 83.3 |
| Standard (dB(A)) | 85 |
| Reference Method : ISO1996-1 and 1996-2 | |
| Standard | Environmental Impact Assessment Report of Gulf T&S Co., Ltd. โครงการประเมินผลกระทบสิ่งแวดล้อม ก๊าซธรรมชาติอุตสาหกรรมปิโตรเคมี ตามมาตรฐานการประเมินผลกระทบสิ่งแวดล้อมในประเทศไทย พ.ศ.๒๕๖๓ |

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Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O : 4210502169
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 23125341
Date Received : Nov 16, 2023
Date Reported : Nov 21, 2023
Report Number: 2842207-1

Page 1 of 1

| Sample Number | 23125341-4 |
|---|--|
| Parameter | Noise (Leq 8 hrs.) |
| Location | อุโมงค์ Gas Turbine Accesories System (ระบบจ่ายแก๊ส GTG 11 use GTG12) |
| Measurement Date | Nov 15, 2023 |
| Measurement by | Thilipong Buadhang |
| Time | |
| 09:00 AM - 10:00 AM | 70.8 |
| 10:00 AM - 11:00 AM | 70.3 |
| 11:00 AM - 12:00 PM | 74.0 |
| 12:00 PM - 01:00 PM | 75.4 |
| 01:00 PM - 02:00 PM | 75.6 |
| 02:00 PM - 03:00 PM | 75.7 |
| 03:00 PM - 04:00 PM | 75.9 |
| 04:00 PM - 05:00 PM | 76.2 |
| Leq Average 8 hrs. (dB(A)) | 74.7 |
| Lmax (dB(A)) | 79.6 |
| Standard (dB(A)) | 85 |
| Reference Method : ISO1996-1 and 1996-2 | |
| Standard | Environmental Impact Assessment Report of Gulf T&S Co., Ltd. โครงการประเมินผลกระทบสิ่งแวดล้อม ก๊าซธรรมชาติอุตสาหกรรมปิโตรเคมี ตามมาตรฐานการประเมินผลกระทบสิ่งแวดล้อมในประเทศไทย พ.ศ.๒๕๖๓ |

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Analysis / Test Report

Client : Gulf TSE Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Phrak Daeng, Rayong Thailand 21140

P/O : 4210502169

Date Received : Nov 16, 2023

Date Reported : Nov 21, 2023

Report Number: 2842208-1

Lot ID: 23125341

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

| | |
|---|--|
| Sample Number | 23125341-5 |
| Parameter | Noise (Leq 8 hrs.) |
| Location | บริเวณ Steam Turbine Generator |
| Measurement Date | Nov 15, 2023 |
| Measurement by | Thitpong Buddheng |
| Time | |
| 09:05 AM - 10:05 AM | 82.3 |
| 10:05 AM - 11:05 AM | 82.2 |
| 11:05 AM - 12:05 PM | 83.5 |
| 12:05 PM - 01:05 PM | 83.0 |
| 01:05 PM - 02:05 PM | 83.1 |
| 02:05 PM - 03:05 PM | 83.6 |
| 03:05 PM - 04:05 PM | 84.0 |
| 04:05 PM - 05:05 PM | 83.2 |
| Leq Average 8 hrs. (dB(A)) | 83.2 |
| Lmax (dB(A)) | 84.4 |
| Standard (dB(A)) | 85 |
| Reference Method | : ISO1996-1 and 1996-2 |
| Standard | : Environmental Impact Assessment Report of Gulf TSE Co., Ltd. |
| หมายเหตุ: การวัดเสียงครั้งนี้ เป็นการวัดเสียงตามมาตรฐาน ตามข้อกำหนดการรายงานการประเมินผลกระทบสิ่งแวดล้อม พ.ร.บ. ๒๕๖๑ | |

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S Report_Air Noise rpt (10-17MM)



Analysis / Test Report

Client : Gulf TSE Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Phrak Daeng, Rayong Thailand 21140

P/O : 4210502169

Date Received : Nov 16, 2023

Date Reported : Nov 21, 2023

Report Number: 2842209-1

Lot ID: 23125341

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

| | |
|---|--|
| Sample Number | 23125341-6 |
| Parameter | Noise (Leq 8 hrs.) |
| Location | บริเวณ Steam Turbine Lube Oil Skid |
| Measurement Date | Nov 15, 2023 |
| Measurement by | Thitpong Buddheng |
| Time | |
| 09:41 AM - 10:41 AM | 76.7 |
| 10:41 AM - 11:41 AM | 76.7 |
| 11:41 AM - 12:41 PM | 77.0 |
| 12:41 PM - 01:41 PM | 77.3 |
| 01:41 PM - 02:41 PM | 77.6 |
| 02:41 PM - 03:41 PM | 77.7 |
| 03:41 PM - 04:41 PM | 77.9 |
| 04:41 PM - 05:41 PM | 77.7 |
| Leq Average 8 hrs. (dB(A)) | 77.3 |
| Lmax (dB(A)) | 80.4 |
| Standard (dB(A)) | 85 |
| Reference Method | : ISO1996-1 and 1996-2 |
| Standard | : Environmental Impact Assessment Report of Gulf TSE Co., Ltd. |
| หมายเหตุ: การวัดเสียงครั้งนี้ เป็นการวัดเสียงตามมาตรฐาน ตามข้อกำหนดการรายงานการประเมินผลกระทบสิ่งแวดล้อม พ.ร.บ. ๒๕๖๑ | |

Technical Management

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S Report_Air Noise rpt (10-17MM)

ภาคผนวก ค-8

ความร้อนภายในสถานประกอบการ



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluek Daeng,
Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2376495
Date Received : Aug 21, 2023
Date Reported : Aug 24, 2023
Report Number: 2702186-1

Page 1 of 4

Sample Number 2376495-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Aug 18, 2023
Measurement by Nattakorn Vonginyoo
Location อุบัติการณ์ 1 ฝั่ง (ฝั่ง-สนามหญ้าด้านหน้า : - สนาม : -)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|-----------------------------|----------------|-----------|----------|---------|---------|
| Unit Condenser Exhaust Unit | 120 | 29.2 | 25.9 | 37.0 | 36.8 |
| Average (WBGT) | | 29.2 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Supt S.

Approved by

Wichan Choonharat

Supot Salamtich
Section Head

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluek Daeng,
Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2376495
Date Received : Aug 21, 2023
Date Reported : Aug 24, 2023
Report Number: 2702186-1

Page 2 of 4

Sample Number 2376495-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Aug 18, 2023
Measurement by Nattakorn Vonginyoo
Location อุบัติการณ์ 1 ฝั่ง (ฝั่ง-สนามหญ้าด้านหน้า : - สนาม : -)

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|-----------------------------|----------------|-----------|----------|---------|---------|
| Unit Condenser Exhaust Unit | 120 | 29.3 | 25.8 | 37.5 | 37.0 |
| Average (WBGT) | | 29.3 | | | |
| 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

Supt S.

Approved by

Wichan Choonharat

Supot Salamtich
Section Head

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Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasek, Pluak Daeng,
Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 2376495

Date Received : Aug 21, 2023

Date Reported : Aug 24, 2023

Report Number: 2702186-1

Page 3 of 4

| | |
|------------------|---|
| Sample Number | 2376495-3 |
| Parameter | Heat Stress (Sampling Time : 10.00 AM - 12.00 PM) |
| Measurement Date | Aug 18, 2023 |
| Measurement by | Nattakorn Vongjinyoo |
| Location | บริเวณ 1 พื้น (ผ้า-วามเงา) : - อุณหภูมิ : - |

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|---------------------|----------------|-----------|----------|---------|---------|
| บริเวณ Generator | 120 | 28.6 | 25.5 | 36.1 | 35.2 |
| Average (WBGT) | | 28.6 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

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Supat Salanth
Section Head

Approved by

Wichan Choonharat

Wichan Choonharat
Assistant Manager

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5 (Report), Air Heat (12-4899)



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasek, Pluak Daeng,
Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 2376495

Date Received : Aug 21, 2023

Date Reported : Aug 24, 2023

Report Number: 2702186-1

Page 4 of 4

| | |
|------------------|---|
| Sample Number | 2376495-4 |
| Parameter | Heat Stress (Sampling Time : 10.00 AM - 12.00 PM) |
| Measurement Date | Aug 18, 2023 |
| Measurement by | Nattakorn Vongjinyoo |
| Location | บริเวณ 1 พื้น (ผ้า-วามเงา) : - อุณหภูมิ : - |

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|---------------------|----------------|-----------|----------|---------|---------|
| บริเวณ Gas Turbine | 120 | 28.2 | 25.1 | 36.0 | 34.0 |
| Average (WBGT) | | 28.2 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Supt S.

Supat Salanth
Section Head

Approved by

Wichan Choonharat

Wichan Choonharat
Assistant Manager

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5 (Report), Air Heat (12-4899)



Analysis / Test Report

Client: Gulf Tsa Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Piuak Daeng,
Rayong Thailand 21140
P/O : 4210502169

Page 2 of 4

| | | | | | | |
|--------------------|---|-----------|----------|---------|---------|--|
| Sample Number | 23125362-2 | | | | | |
| Parameter | Heat Stress (Sampling Time : 10.00 AM - 12.00 PM) | | | | | |
| Measurement Date | Nov 15, 2023 | | | | | |
| Measurement by | Annal Wongpakke | | | | | |
| Location | บริเวณ 1 หน้า (ตำแหน่ง : - นาน : -) | | | | | |
| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) | |
| บริเวณ 1 หน้า | 120 | 28.8 | 25.7 | 36.5 | 35.0 | |
| Average (WBGT) | | 28.8 | | | | |
| Guidline 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

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

Supat Salamtech
Section Head

Unit 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand Fax 66 0 2760 3000 Tel 66 0 2760 3159
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Analysis / Test Report

Client : Gulf T54 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,
Rayong Thailand 21140

P/O : 4210502169

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 23125362

Date Received : Nov 16, 2023

Date Reported : Nov 20, 2023

Report Number: 2818128-1

Page 3 of 4

| | |
|------------------|---|
| Sample Number | 23125362-3 |
| Parameter | Heat Stress (Sampling Time : 10.00 AM - 12.00 PM) |
| Measurement Date | Nov 15, 2023 |
| Measurement by | Annat Wongkhe |
| Location | บริเวณ 1 หลัง (ด้านหลังอาคาร : - unun : -) |

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|---------------------|----------------|-----------|----------|---------|---------|
| บริเวณ Generator | 120 | 29.3 | 26.5 | 36.0 | 35.2 |
| Average (WBGT) | | 29.3 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

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Supot Silamth
Section Head

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Wichan Choonharat
Assistant Manager



Analysis / Test Report

Client : Gulf T54 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,
Rayong Thailand 21140

P/O : 4210502169

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 23125362

Date Received : Nov 16, 2023

Date Reported : Nov 20, 2023

Report Number: 2818128-1

Page 4 of 4

| | |
|------------------|---|
| Sample Number | 23125362-4 |
| Parameter | Heat Stress (Sampling Time : 10.00 AM - 12.00 PM) |
| Measurement Date | Nov 15, 2023 |
| Measurement by | Annat Wongkhe |
| Location | บริเวณ 1 หลัง (ด้านหลังอาคาร : - unun : -) |

| Location | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|---------------------|----------------|-----------|----------|---------|---------|
| บริเวณ Gas Turbine | 120 | 28.9 | 26.2 | 35.8 | 33.9 |
| Average (WBGT) | | 28.9 | | | |
| Guideline WBGT (°C) | | 34.0 | | | |

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

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Supot Silamth
Section Head

Approved by

Wichan Choonharat

Wichan Choonharat
Assistant Manager

ภาคผนวก ค-9

แสงสว่างภายในสถานประกอบการ



Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand 21140
P/O :
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (1)-1 C6
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2375088 (1)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (1)-1 C6
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | Illuminance (Lux) | | Spot | Average | Spot/Min | Average | Comment |
|-------------|--|------------------|-----------|----------|-----|-------------------|---------|---------|---------|----------|---------|---------|
| | | | | | | Spot | Average | | | | | |
| 1 | Spot : Administration Building : 1st Floor : 1st Admin. 1 | 2375088 (1)-1 | 18-Aug-23 | Day time | 1 | 719 | - | 300-400 | - | - | - | Pass |
| 2 | Spot : Administration Building : 1st Floor : 1st Admin. 1 | 2375088 (1)-2 | 18-Aug-23 | Day time | 1 | 422 | - | 400-500 | - | - | - | Pass |
| 3 | Spot : Administration Building : 1st Floor : 1st Admin. 2 | 2375088 (1)-3 | 18-Aug-23 | Day time | 1 | 433 | - | 400-500 | - | - | - | Pass |
| 4 | Spot : Administration Building : 1st Floor : 1st Operation Manager | 2375088 (1)-4 | 18-Aug-23 | Day time | 1 | 474 | - | 400-500 | - | - | - | Pass |
| 5 | Spot : Administration Building : 1st Floor : 1st EHS | 2375088 (1)-5 | 18-Aug-23 | Day time | 1 | 745 | - | 400-500 | - | - | - | Pass |
| 6 | Spot : Administration Building : 1st Floor : 1st EHS Manager | 2375088 (1)-6 | 18-Aug-23 | Day time | 1 | 644 | - | 400-500 | - | - | - | Pass |
| 7 | Spot : Administration Building : 1st Floor : 1st Admin. Manager | 2375088 (1)-7 | 18-Aug-23 | Day time | 1 | 440 | - | 400-500 | - | - | - | Pass |
| 8 | Spot : Administration Building : 1st Floor : 1st Plant Manager | 2375088 (1)-8 | 18-Aug-23 | Day time | 1 | 439 | - | 400-500 | - | - | - | Pass |
| 9 | Spot : Administration Building : 1st Floor : 1st IT | 2375088 (1)-9 | 18-Aug-23 | Day time | 1 | 407 | - | 400-500 | - | - | - | Pass |
| 10 | Spot : Administration Building : 1st Floor : 1st Tenda 1 | 2375088 (1)-10 | 18-Aug-23 | Day time | 1 | 533 | - | 400-500 | - | - | - | Pass |
| 11 | Spot : Administration Building : 1st Floor : 1st Tenda 2 | 2375088 (1)-11 | 18-Aug-23 | Day time | 1 | 452 | - | 400-500 | - | - | - | Pass |
| 12 | Area : Administration Building : 1st Floor : Inside | 2375088 (1)-12 | 18-Aug-23 | Day time | 1 | 340 | 318 | 50 | 100 | - | - | Pass |
| | | 2375088 (1)-13 | 18-Aug-23 | Day time | 2 | 411 | - | - | - | - | - | Pass |
| | | 2375088 (1)-14 | 18-Aug-23 | Day time | 3 | 480 | - | - | - | - | - | Pass |
| | | 2375088 (1)-15 | 18-Aug-23 | Day time | 4 | 245 | - | - | - | - | - | Pass |
| | | 2375088 (1)-16 | 18-Aug-23 | Day time | 5 | 190 | - | - | - | - | - | Pass |
| | | 2375088 (1)-17 | 18-Aug-23 | Day time | 6 | 244 | - | - | - | - | - | Pass |
| 13 | Area : Administration Building : 1st Floor : Outside | 2375088 (1)-18 | 18-Aug-23 | Day time | 1 | 710 | 741 | 150 | 300 | - | - | Pass |
| | | 2375088 (1)-19 | 18-Aug-23 | Day time | 2 | 772 | - | - | - | - | - | Pass |

Technical Management

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Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand 21140
P/O :
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (1)-1
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2375088 (1)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (1)-1

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | Illuminance (Lux) | | Spot | Average | Spot/Min | Average | Comment |
|-------------|--|------------------|-----------|----------|-----|-------------------|---------|------|---------|----------|---------|---------|
| | | | | | | Spot | Average | | | | | |
| 15 | Area : Administration Building : 1st Floor : Outside | 2375088 (1)-20 | 18-Aug-23 | Day time | 1 | 300 | 362 | 150 | 300 | - | - | Pass |
| | | 2375088 (1)-21 | 18-Aug-23 | Day time | 2 | 319 | - | - | - | - | - | Pass |
| | | 2375088 (1)-22 | 18-Aug-23 | Day time | 3 | 317 | - | - | - | - | - | Pass |
| | | 2375088 (1)-23 | 18-Aug-23 | Day time | 4 | 400 | - | - | - | - | - | Pass |
| | | 2375088 (1)-24 | 18-Aug-23 | Day time | 5 | 452 | - | - | - | - | - | Pass |
| | | 2375088 (1)-25 | 18-Aug-23 | Day time | 6 | 411 | - | - | - | - | - | Pass |
| | | 2375088 (1)-26 | 18-Aug-23 | Day time | 7 | 400 | - | - | - | - | - | Pass |
| | | 2375088 (1)-27 | 18-Aug-23 | Day time | 8 | 359 | - | - | - | - | - | Pass |
| | | 2375088 (1)-28 | 18-Aug-23 | Day time | 9 | 327 | - | - | - | - | - | Pass |
| | | 2375088 (1)-29 | 18-Aug-23 | Day time | 10 | 316 | - | - | - | - | - | Pass |
| | | 2375088 (1)-30 | 18-Aug-23 | Day time | 11 | 342 | - | - | - | - | - | Pass |
| | | 2375088 (1)-31 | 18-Aug-23 | Day time | 12 | 402 | - | - | - | - | - | Pass |
| 16 | Area : Administration Building : 1st Floor : Outside | 2375088 (1)-32 | 18-Aug-23 | Day time | 1 | 606 | 529 | 150 | 300 | - | - | Pass |
| | | 2375088 (1)-33 | 18-Aug-23 | Day time | 2 | 532 | - | - | - | - | - | Pass |
| | | 2375088 (1)-34 | 18-Aug-23 | Day time | 3 | 531 | - | - | - | - | - | Pass |
| | | 2375088 (1)-35 | 18-Aug-23 | Day time | 4 | 446 | - | - | - | - | - | Pass |
| 17 | Area : Administration Building : 1st Floor : Outside | 2375088 (1)-36 | 18-Aug-23 | Day time | 1 | 412 | 369 | 150 | 300 | - | - | Pass |
| | | 2375088 (1)-37 | 18-Aug-23 | Day time | 2 | 365 | - | - | - | - | - | Pass |
| | | 2375088 (1)-38 | 18-Aug-23 | Day time | 3 | 311 | - | - | - | - | - | Pass |
| | | 2375088 (1)-39 | 18-Aug-23 | Day time | 4 | 388 | - | - | - | - | - | Pass |

Measurement by : Nattakorn Vongvinyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 350 dated February 21 B.E.2561 (2018)

Technical Management

Supot Salamech
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2375088 (2)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number: 2375088 (2)-1 C6

Page 1 of 2

| Lay out No. | Location | Reference Number | Date | GTS4 | | No. | Illuminance (Lux) | Guideline Limit | | Comment |
|-------------|---|------------------|-----------|------------|---------|-----|-------------------|-----------------|---------|---------|
| | | | | Spot | Average | | | Spot/Min | Average | |
| 1 | Area : CCR : Control Building : 1st Floor : Switchgear Room | 2375088 (2)-1 | 18-Aug-23 | Day time | 1 | 385 | 352 | 100 | 200 | Pass |
| | | 2375088 (2)-2 | 18-Aug-23 | Day time | 2 | 369 | | | | |
| | | 2375088 (2)-3 | 18-Aug-23 | Day time | 3 | 355 | | | | |
| | | 2375088 (2)-4 | 18-Aug-23 | Day time | 4 | 362 | | | | |
| | | 2375088 (2)-5 | 18-Aug-23 | Day time | 5 | 325 | | | | |
| | | 2375088 (2)-6 | 18-Aug-23 | Day time | 6 | 311 | | | | |
| | | 2375088 (2)-7 | 18-Aug-23 | Day time | 7 | 372 | | | | |
| | | 2375088 (2)-8 | 18-Aug-23 | Day time | 8 | 365 | | | | |
| | | 2375088 (2)-9 | 18-Aug-23 | Day time | 9 | 362 | | | | |
| | | 2375088 (2)-10 | 18-Aug-23 | Day time | 10 | 378 | | | | |
| | | 2375088 (2)-11 | 18-Aug-23 | Day time | 11 | 312 | | | | |
| | | 2375088 (2)-12 | 18-Aug-23 | Day time | 12 | 349 | | | | |
| | | 2375088 (2)-13 | 18-Aug-23 | Day time | 13 | 330 | | | | |
| | | 2375088 (2)-14 | 18-Aug-23 | Day time | 14 | 355 | | | | |
| | | 2375088 (2)-15 | 18-Aug-23 | Day time | 15 | 360 | | | | |
| | | 2375088 (2)-16 | 18-Aug-23 | Day time | 16 | 350 | | | | |
| | | 2375088 (2)-17 | 18-Aug-23 | Day time | 17 | 377 | | | | |
| | | 2375088 (2)-18 | 18-Aug-23 | Day time | 18 | 371 | | | | |
| | | 2375088 (2)-19 | 18-Aug-23 | Night time | 1 | 372 | 345 | 100 | 200 | Pass |
| | | 2375088 (2)-20 | 18-Aug-23 | Night time | 2 | 366 | | | | |
| | | 2375088 (2)-21 | 18-Aug-23 | Night time | 3 | 340 | | | | |
| | | 2375088 (2)-22 | 18-Aug-23 | Night time | 4 | 337 | | | | |
| | | 2375088 (2)-23 | 18-Aug-23 | Night time | 5 | 324 | | | | |
| | | 2375088 (2)-24 | 18-Aug-23 | Night time | 6 | 315 | | | | |
| | | 2375088 (2)-25 | 18-Aug-23 | Night time | 7 | 344 | | | | |
| | | 2375088 (2)-26 | 18-Aug-23 | Night time | 8 | 360 | | | | |
| | | 2375088 (2)-27 | 18-Aug-23 | Night time | 9 | 366 | | | | |
| | | 2375088 (2)-28 | 18-Aug-23 | Night time | 10 | 371 | | | | |
| | | 2375088 (2)-29 | 18-Aug-23 | Night time | 11 | 309 | | | | |
| | | 2375088 (2)-30 | 18-Aug-23 | Night time | 12 | 342 | | | | |
| | | 2375088 (2)-31 | 18-Aug-23 | Night time | 13 | 327 | | | | |
| | | 2375088 (2)-32 | 18-Aug-23 | Night time | 14 | 360 | | | | |
| | | 2375088 (2)-33 | 18-Aug-23 | Night time | 15 | 366 | | | | |
| | | 2375088 (2)-34 | 18-Aug-23 | Night time | 16 | 351 | | | | |
| | | 2375088 (2)-35 | 18-Aug-23 | Night time | 17 | 348 | | | | |
| | | 2375088 (2)-36 | 18-Aug-23 | Night time | 18 | 353 | | | | |
| 2 | Area : CCR : Control Building : 1st Floor : Warehouse 1A | 2375088 (2)-37 | 18-Aug-23 | Day time | 1 | 375 | 462 | 50 | 100 | Pass |
| | | 2375088 (2)-38 | 18-Aug-23 | Day time | 2 | 546 | | | | |
| | | 2375088 (2)-39 | 18-Aug-23 | Night time | 1 | 205 | 211 | 50 | 100 | Pass |
| | | 2375088 (2)-40 | 18-Aug-23 | Night time | 2 | 217 | | | | |

Technical Management
Supot Salantich
Section Head

Approved by
Nikhon Chonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2375088 (2)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number: 2375088 (2)-1

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | GTS3 | | No. | Illuminance (Lux) | Guideline Limit | | Comment |
|-------------|--|------------------|-----------|------------|---------|-----|-------------------|-----------------|---------|---------|
| | | | | Spot | Average | | | Spot/Min | Average | |
| 1 | Area : CCR : Control Building : 1st Floor : Warehouse 1A | 2375088 (2)-1 | 18-Aug-23 | Day time | 1 | 385 | 352 | 100 | 200 | Pass |
| | | 2375088 (2)-2 | 18-Aug-23 | Day time | 2 | 369 | | | | |
| | | 2375088 (2)-3 | 18-Aug-23 | Day time | 3 | 355 | | | | |
| | | 2375088 (2)-4 | 18-Aug-23 | Day time | 4 | 362 | | | | |
| | | 2375088 (2)-5 | 18-Aug-23 | Day time | 5 | 325 | | | | |
| | | 2375088 (2)-6 | 18-Aug-23 | Day time | 6 | 311 | | | | |
| | | 2375088 (2)-7 | 18-Aug-23 | Day time | 7 | 372 | | | | |
| | | 2375088 (2)-8 | 18-Aug-23 | Day time | 8 | 365 | | | | |
| | | 2375088 (2)-9 | 18-Aug-23 | Day time | 9 | 362 | | | | |
| | | 2375088 (2)-10 | 18-Aug-23 | Day time | 10 | 378 | | | | |
| | | 2375088 (2)-11 | 18-Aug-23 | Day time | 11 | 312 | | | | |
| | | 2375088 (2)-12 | 18-Aug-23 | Day time | 12 | 349 | | | | |
| | | 2375088 (2)-13 | 18-Aug-23 | Day time | 13 | 330 | | | | |
| | | 2375088 (2)-14 | 18-Aug-23 | Day time | 14 | 355 | | | | |
| | | 2375088 (2)-15 | 18-Aug-23 | Day time | 15 | 360 | | | | |
| | | 2375088 (2)-16 | 18-Aug-23 | Day time | 16 | 350 | | | | |
| | | 2375088 (2)-17 | 18-Aug-23 | Day time | 17 | 377 | | | | |
| | | 2375088 (2)-18 | 18-Aug-23 | Day time | 18 | 371 | | | | |
| | | 2375088 (2)-19 | 18-Aug-23 | Night time | 1 | 372 | 345 | 100 | 200 | Pass |
| | | 2375088 (2)-20 | 18-Aug-23 | Night time | 2 | 366 | | | | |
| | | 2375088 (2)-21 | 18-Aug-23 | Night time | 3 | 340 | | | | |
| | | 2375088 (2)-22 | 18-Aug-23 | Night time | 4 | 337 | | | | |
| | | 2375088 (2)-23 | 18-Aug-23 | Night time | 5 | 324 | | | | |
| | | 2375088 (2)-24 | 18-Aug-23 | Night time | 6 | 315 | | | | |
| | | 2375088 (2)-25 | 18-Aug-23 | Night time | 7 | 344 | | | | |
| | | 2375088 (2)-26 | 18-Aug-23 | Night time | 8 | 360 | | | | |
| | | 2375088 (2)-27 | 18-Aug-23 | Night time | 9 | 366 | | | | |
| | | 2375088 (2)-28 | 18-Aug-23 | Night time | 10 | 371 | | | | |
| | | 2375088 (2)-29 | 18-Aug-23 | Night time | 11 | 309 | | | | |
| | | 2375088 (2)-30 | 18-Aug-23 | Night time | 12 | 342 | | | | |
| | | 2375088 (2)-31 | 18-Aug-23 | Night time | 13 | 327 | | | | |
| | | 2375088 (2)-32 | 18-Aug-23 | Night time | 14 | 360 | | | | |
| | | 2375088 (2)-33 | 18-Aug-23 | Night time | 15 | 366 | | | | |
| | | 2375088 (2)-34 | 18-Aug-23 | Night time | 16 | 351 | | | | |
| | | 2375088 (2)-35 | 18-Aug-23 | Night time | 17 | 348 | | | | |
| | | 2375088 (2)-36 | 18-Aug-23 | Night time | 18 | 353 | | | | |
| 2 | Area : CCR : Control Building : 1st Floor : Warehouse 1A | 2375088 (2)-37 | 18-Aug-23 | Day time | 1 | 375 | 462 | 50 | 100 | Pass |
| | | 2375088 (2)-38 | 18-Aug-23 | Day time | 2 | 546 | | | | |
| | | 2375088 (2)-39 | 18-Aug-23 | Night time | 1 | 205 | 211 | 50 | 100 | Pass |
| | | 2375088 (2)-40 | 18-Aug-23 | Night time | 2 | 217 | | | | |

Technical Management
Supot Salantich
Section Head

Approved by
Nikhon Chonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf T&S Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

Lot ID: 2375088 (3)

Date Received : Aug 20, 2023

Date Reported : Sep 07, 2023

Report Number: 2375088 (3)-1 C6

Page 1 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS4 | | | Comment |
|-------------|--|------------------|-----------|------------|-----|---------|-------------------|-----------------|---------|
| | | | | | | Spot | Illuminance (Lux) | Guideline Limit | |
| | | | | | | Average | Spot/Min | Average | |
| 1 | Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.1 | 2375088 (3)-1 | 18-Aug-23 | Day time | 1 | 407 | - | 400-500 | Pass |
| | | 2375088 (3)-2 | 18-Aug-23 | Night time | 1 | 409 | - | 400-500 | Pass |
| 2 | Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.2 | 2375088 (3)-3 | 18-Aug-23 | Day time | 1 | 403 | - | 400-500 | Pass |
| | | 2375088 (3)-4 | 18-Aug-23 | Night time | 1 | 412 | - | 400-500 | Pass |
| 3 | Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.1 | 2375088 (3)-5 | 18-Aug-23 | Day time | 1 | 450 | - | 400-500 | Pass |
| | | 2375088 (3)-6 | 18-Aug-23 | Night time | 1 | 422 | - | 400-500 | Pass |
| 4 | Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.2 | 2375088 (3)-7 | 18-Aug-23 | Day time | 1 | 414 | - | 400-500 | Pass |
| | | 2375088 (3)-8 | 18-Aug-23 | Night time | 1 | 461 | - | 400-500 | Pass |
| 5 | Spot : CCR : Control Building : 3rd Floor : DC5 | 2375088 (3)-9 | 18-Aug-23 | Day time | 1 | 541 | - | 400-500 | Pass |
| | | 2375088 (3)-10 | 18-Aug-23 | Night time | 1 | 543 | - | 400-500 | Pass |
| 6 | Spot : CCR : Control Building : 3rd Floor : 1st Shift Leader | 2375088 (3)-11 | 18-Aug-23 | Day time | 1 | 341 | - | 300-400 | Pass |
| | | 2375088 (3)-12 | 18-Aug-23 | Night time | 1 | 309 | - | 300-400 | Pass |
| 7 | Spot : CCR : Control Building : 3rd Floor : 1st Shift Leader | 2375088 (3)-13 | 18-Aug-23 | Day time | 1 | 485 | - | 300-400 | Pass |
| | | 2375088 (3)-14 | 18-Aug-23 | Night time | 1 | 527 | - | 300-400 | Pass |
| 8 | Spot : CCR : Control Building : 3rd Floor : 1st Daytime Operation | 2375088 (3)-15 | 18-Aug-23 | Day time | 1 | 432 | - | 400-500 | Pass |
| | | 2375088 (3)-16 | 18-Aug-23 | Day time | 1 | 660 | - | 400-500 | Pass |
| 10 | Spot : CCR : Control Building : 3rd Floor : 1st Permit | 2375088 (3)-17 | 18-Aug-23 | Day time | 1 | 643 | - | 400-500 | Pass |
| | | 2375088 (3)-18 | 18-Aug-23 | Night time | 1 | 514 | - | 400-500 | Pass |
| 11 | Spot : CCR : Control Building : 3rd Floor : 1st Shift Leader Daytime | 2375088 (3)-19 | 18-Aug-23 | Day time | 1 | 511 | - | 400-500 | Pass |
| | | 2375088 (3)-20 | 18-Aug-23 | Day time | 1 | 535 | - | 400-500 | Pass |
| 12 | Spot : CCR : Control Building : 3rd Floor : 1st Shift Leader GTS3 | 2375088 (3)-21 | 18-Aug-23 | Night time | 1 | 496 | - | 400-500 | Pass |
| | | 2375088 (3)-22 | 18-Aug-23 | Day time | 1 | 490 | - | 400-500 | Pass |
| 13 | Spot : CCR : Control Building : 3rd Floor : 1st Shift Leader GTS4 | 2375088 (3)-23 | 18-Aug-23 | Night time | 1 | 493 | - | 400-500 | Pass |

Technical Management

Supot Salameh
Section Head

Approved by

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RIGHT SOLUTIONS



Analysis / Test Report

Client : Gulf T&S Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

Lot ID: 2375088 (3)

Date Received : Aug 20, 2023

Date Reported : Sep 07, 2023

Report Number: 2375088 (3)-1

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS3 | | | Comment | |
|-------------|--|------------------|-----------|------------|-----|------|---------------------------|----------------------------------|---------|------|
| | | | | | | Spot | Illuminance (Lux) Average | Guideline Limit Spot/Min Average | | |
| 14 | Area : CCR : Control Building : 3rd Floor : ๓๓๓๓๓ | 2375088 (3)-24 | 18-Aug-23 | Day time | 1 | 245 | 521 | 50 | 100 | Pass |
| | | 2375088 (3)-25 | 18-Aug-23 | Day time | 2 | 584 | | | | |
| | | 2375088 (3)-26 | 18-Aug-23 | Day time | 3 | 673 | | | | |
| | | 2375088 (3)-27 | 18-Aug-23 | Day time | 4 | 554 | | | | |
| | | 2375088 (3)-28 | 18-Aug-23 | Day time | 5 | 551 | | | | |
| | | 2375088 (3)-29 | 18-Aug-23 | Night time | 1 | 208 | 501 | 50 | 100 | Pass |
| | | 2375088 (3)-30 | 18-Aug-23 | Night time | 2 | 609 | | | | |
| | | 2375088 (3)-31 | 18-Aug-23 | Night time | 3 | 653 | | | | |
| | | 2375088 (3)-32 | 18-Aug-23 | Night time | 4 | 520 | | | | |
| | | 2375088 (3)-33 | 18-Aug-23 | Night time | 5 | 515 | | | | |
| 15 | Area : CCR : Control Building : 3rd Floor : ๓๓๓๓๓๓๓๓ | 2375088 (3)-34 | 18-Aug-23 | Day time | 1 | 560 | 572 | 50 | 100 | Pass |
| | | 2375088 (3)-35 | 18-Aug-23 | Day time | 2 | 584 | | | | |
| | | 2375088 (3)-36 | 18-Aug-23 | Night time | 1 | 264 | 277 | 50 | 100 | Pass |
| | | 2375088 (3)-37 | 18-Aug-23 | Night time | 2 | 290 | | | | |

Measurement by : Nattakorn Vonginoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 350 dated February 21 B.E.2561 (2018)

Technical Management

Supot Salameh
Section Head

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RIGHT SOLUTIONS



Analysis / Test Report

Client : Gulf T&I Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Taat, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2375088 (4)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number: 2375088 (4)-1 C6

Page 1 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS4 | | | Comment |
|-------------|--|------------------|-----------|------------|-----|-------------------|----------|---------|---------|
| | | | | | | Illuminance (Lux) | Spot/Min | Average | |
| 1 | Area : Electrical Building : ตู้ 2 : Battery Room | 2375088 (4)-1 | 18-Aug-23 | Day time | 1 | 245 | 100 | 200 | Pass |
| | | 2375088 (4)-2 | 18-Aug-23 | Day time | 2 | 294 | 100 | 200 | Pass |
| | | 2375088 (4)-3 | 18-Aug-23 | Night time | 1 | 300 | 100 | 200 | Pass |
| | | 2375088 (4)-4 | 18-Aug-23 | Night time | 2 | 324 | 100 | 200 | Pass |
| 2 | Area : Electrical Building : ตู้ 2 : Electrical Room | 2375088 (4)-5 | 18-Aug-23 | Day time | 1 | 1,846 | 100 | 200 | Pass |
| | | 2375088 (4)-6 | 18-Aug-23 | Day time | 2 | 290 | 100 | 200 | Pass |
| | | 2375088 (4)-7 | 18-Aug-23 | Day time | 3 | 3,412 | 100 | 200 | Pass |
| | | 2375088 (4)-8 | 18-Aug-23 | Day time | 4 | 2,184 | 100 | 200 | Pass |
| | | 2375088 (4)-9 | 18-Aug-23 | Day time | 5 | 447 | 100 | 200 | Pass |
| | | 2375088 (4)-10 | 18-Aug-23 | Day time | 6 | 556 | 100 | 200 | Pass |
| | | 2375088 (4)-11 | 18-Aug-23 | Day time | 7 | 649 | 100 | 200 | Pass |
| | | 2375088 (4)-12 | 18-Aug-23 | Day time | 8 | 662 | 100 | 200 | Pass |
| | | 2375088 (4)-13 | 18-Aug-23 | Day time | 9 | 400 | 100 | 200 | Pass |
| | | 2375088 (4)-14 | 18-Aug-23 | Day time | 10 | 480 | 100 | 200 | Pass |
| | | 2375088 (4)-15 | 18-Aug-23 | Day time | 11 | 1,775 | 100 | 200 | Pass |
| | | 2375088 (4)-16 | 18-Aug-23 | Day time | 12 | 1,235 | 100 | 200 | Pass |
| | | 2375088 (4)-17 | 18-Aug-23 | Day time | 13 | 1,321 | 100 | 200 | Pass |
| | | 2375088 (4)-18 | 18-Aug-23 | Day time | 14 | 1,179 | 100 | 200 | Pass |
| | | 2375088 (4)-19 | 18-Aug-23 | Day time | 15 | 972 | 100 | 200 | Pass |
| | | 2375088 (4)-20 | 18-Aug-23 | Day time | 16 | 926 | 100 | 200 | Pass |
| | | 2375088 (4)-21 | 18-Aug-23 | Day time | 17 | 1,021 | 100 | 200 | Pass |
| | | 2375088 (4)-22 | 18-Aug-23 | Day time | 18 | 983 | 100 | 200 | Pass |
| | | 2375088 (4)-23 | 18-Aug-23 | Night time | 1 | 336 | 100 | 200 | Pass |
| | | 2375088 (4)-24 | 18-Aug-23 | Night time | 2 | 180 | 100 | 200 | Pass |
| | | 2375088 (4)-25 | 18-Aug-23 | Night time | 3 | 356 | 100 | 200 | Pass |
| | | 2375088 (4)-26 | 18-Aug-23 | Night time | 4 | 371 | 100 | 200 | Pass |
| | | 2375088 (4)-27 | 18-Aug-23 | Night time | 5 | 289 | 100 | 200 | Pass |
| | | 2375088 (4)-28 | 18-Aug-23 | Night time | 6 | 310 | 100 | 200 | Pass |
| | | 2375088 (4)-29 | 18-Aug-23 | Night time | 7 | 379 | 100 | 200 | Pass |
| | | 2375088 (4)-30 | 18-Aug-23 | Night time | 8 | 344 | 100 | 200 | Pass |
| | | 2375088 (4)-31 | 18-Aug-23 | Night time | 9 | 305 | 100 | 200 | Pass |
| | | 2375088 (4)-32 | 18-Aug-23 | Night time | 10 | 326 | 100 | 200 | Pass |
| | | 2375088 (4)-33 | 18-Aug-23 | Night time | 11 | 415 | 100 | 200 | Pass |
| | | 2375088 (4)-34 | 18-Aug-23 | Night time | 12 | 395 | 100 | 200 | Pass |
| | | 2375088 (4)-35 | 18-Aug-23 | Night time | 13 | 338 | 100 | 200 | Pass |
| | | 2375088 (4)-36 | 18-Aug-23 | Night time | 14 | 372 | 100 | 200 | Pass |
| | | 2375088 (4)-37 | 18-Aug-23 | Night time | 15 | 366 | 100 | 200 | Pass |
| | | 2375088 (4)-38 | 18-Aug-23 | Night time | 16 | 348 | 100 | 200 | Pass |
| | | 2375088 (4)-39 | 18-Aug-23 | Night time | 17 | 297 | 100 | 200 | Pass |
| | | 2375088 (4)-40 | 18-Aug-23 | Night time | 18 | 369 | 100 | 200 | Pass |

Technical Management
Supt S.
Supot Salameh
Section Head

Approved by
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Wichan Choonharat
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RIGHT SOLUTIONS



Analysis / Test Report

Client : Gulf T&I Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Taat, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2375088 (4)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number: 2375088 (4)-1

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS3 | | | Comment |
|-------------|--|------------------|-----------|------------|-----|-------------------|----------|---------|---------|
| | | | | | | Illuminance (Lux) | Spot/Min | Average | |
| 3 | Area : Electrical Building : ตู้ 1 : VVO | 2375088 (4)-41 | 18-Aug-23 | Day time | 1 | 3,349 | 50 | 100 | Pass |
| | | 2375088 (4)-42 | 18-Aug-23 | Day time | 2 | 3,647 | 50 | 100 | Pass |
| | | 2375088 (4)-43 | 18-Aug-23 | Night time | 1 | 267 | 50 | 100 | Pass |
| 4 | Area : Electrical Building : ตู้ 2 : VVO | 2375088 (4)-44 | 18-Aug-23 | Night time | 2 | 255 | 50 | 100 | Pass |
| | | 2375088 (4)-45 | 18-Aug-23 | Day time | 1 | 339 | 50 | 100 | Pass |
| | | 2375088 (4)-46 | 18-Aug-23 | Day time | 2 | 325 | 50 | 100 | Pass |
| | | 2375088 (4)-47 | 18-Aug-23 | Night time | 1 | 207 | 50 | 100 | Pass |
| | | 2375088 (4)-48 | 18-Aug-23 | Night time | 2 | 234 | 50 | 100 | Pass |

Measurement by : Nattaborn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management
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Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluek Daeng, Rayong Thailand 21140
P/O :
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (5)-1 C6
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2375088 (5)

Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (5)-1 C6

Page 1 of 1

| Lay out No. | Reference Number | Date | Time | No. | Illuminance (Lux) | | Spot | Guideline Limit | | Comment |
|-------------|--|-----------|------------|-----|-------------------|----------|---------|-----------------|----------|---------|
| | | | | | Average | Spot/Min | | Average | Spot/Min | |
| 1 | 2375088 (5)-1 2375088 (5)-2 | 18-Aug-23 | Day time | 1 | 332 | - | 300-400 | - | - | Pass |
| | | 18-Aug-23 | Night time | 1 | 309 | - | 300-400 | - | - | Pass |
| 2 | 2375088 (5)-3 2375088 (5)-4 2375088 (5)-5 2375088 (5)-6 | 18-Aug-23 | Day time | 1 | 324 | 320 | 50 | 100 | 100 | Pass |
| | | 18-Aug-23 | Day time | 2 | 315 | 122 | 50 | 100 | 100 | Pass |
| | | 18-Aug-23 | Night time | 1 | 108 | | | | | |
| | | 18-Aug-23 | Night time | 2 | 136 | | | | | |

Measurement by : Nattakam Vongnyoo
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 3RD dated February 21 B.E.2561 (2018)

Technical Management

Supot Salameeth
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Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluek Daeng, Rayong Thailand 21140
P/O :
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (6)-1 C5
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2375088 (6)

Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (6)-1 C5

Page 1 of 2

| Lay out No. | Reference Number | Date | Time | No. | Illuminance (Lux) | | Spot | Guideline Limit | | Comment |
|-------------|---|-----------|------------|-----|-------------------|----------|---------|-----------------|----------|---------|
| | | | | | Average | Spot/Min | | Average | Spot/Min | |
| 1 | Area : Switchyard Control Building Plan : GTS3 : Battery Room 2375088 (6)-1 2375088 (6)-2 2375088 (6)-3 2375088 (6)-4 | 18-Aug-23 | Day time | 1 | 309 | 311 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Day time | 2 | 313 | | | | | |
| | | 18-Aug-23 | Night time | 1 | 306 | 308 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Night time | 2 | 309 | | | | | |
| 2 | Area : Switchyard Control Building Plan : GTS3 : Substation GTS3 2375088 (6)-5 2375088 (6)-6 2375088 (6)-7 2375088 (6)-8 | 18-Aug-23 | Day time | 1 | 507 | 539 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Day time | 2 | 514 | | | | | |
| | | 18-Aug-23 | Day time | 3 | 535 | | | | | |
| | | 18-Aug-23 | Day time | 4 | 600 | | | | | |
| | 2375088 (6)-9 2375088 (6)-10 2375088 (6)-11 2375088 (6)-12 | 18-Aug-23 | Night time | 1 | 489 | 467 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Night time | 2 | 444 | | | | | |
| | | 18-Aug-23 | Night time | 3 | 476 | | | | | |
| | | 18-Aug-23 | Night time | 4 | 459 | | | | | |
| 3 | Spot : Switchyard Control Building Plan : GTS3 : Switchgear 2375088 (6)-13 2375088 (6)-14 | 18-Aug-23 | Day time | 1 | 308 | - | 300-400 | - | - | Pass |
| | | 18-Aug-23 | Night time | 1 | 306 | - | 300-400 | - | - | Pass |
| 4 | Area : Switchyard Control Building Plan : GTS3 : Switchgear Control Room 2375088 (6)-15 2375088 (6)-16 2375088 (6)-17 2375088 (6)-18 | 18-Aug-23 | Day time | 1 | 521 | 553 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Day time | 2 | 549 | | | | | |
| | | 18-Aug-23 | Day time | 3 | 551 | | | | | |
| | | 18-Aug-23 | Day time | 4 | 592 | | | | | |
| | 2375088 (6)-19 2375088 (6)-20 2375088 (6)-21 2375088 (6)-22 | 18-Aug-23 | Night time | 1 | 473 | 469 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Night time | 2 | 468 | | | | | |
| | | 18-Aug-23 | Night time | 3 | 470 | | | | | |
| | | 18-Aug-23 | Night time | 4 | 465 | | | | | |
| 5 | Area : Switchyard Control Building Plan : GTS4 : Battery Room 2375088 (6)-23 2375088 (6)-24 2375088 (6)-25 2375088 (6)-26 | 18-Aug-23 | Day time | 1 | 227 | 236 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Day time | 2 | 245 | | | | | |
| | | 18-Aug-23 | Night time | 1 | 230 | 238 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Night time | 2 | 245 | | | | | |
| 6 | Area : Switchyard Control Building Plan : GTS4 : Substation GTS4 2375088 (6)-27 2375088 (6)-28 2375088 (6)-29 2375088 (6)-30 | 18-Aug-23 | Day time | 1 | 415 | 410 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Day time | 2 | 409 | | | | | |
| | | 18-Aug-23 | Day time | 3 | 400 | | | | | |
| | | 18-Aug-23 | Day time | 4 | 415 | | | | | |
| | 2375088 (6)-31 2375088 (6)-32 2375088 (6)-33 2375088 (6)-34 | 18-Aug-23 | Night time | 1 | 427 | 420 | 100 | 200 | 200 | Pass |
| | | 18-Aug-23 | Night time | 2 | 433 | | | | | |
| | | 18-Aug-23 | Night time | 3 | 409 | | | | | |
| | | 18-Aug-23 | Night time | 4 | 411 | | | | | |
| 7 | Spot : Switchyard Control Building Plan : GTS4 : Switchgear 2375088 (6)-35 2375088 (6)-36 | 18-Aug-23 | Day time | 1 | 469 | - | 300-400 | - | - | Pass |
| | | 18-Aug-23 | Night time | 1 | 378 | - | 300-400 | - | - | Pass |

Technical Management

Supot Salameeth
Section Head

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Assistant Manager

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Analysis / Test Report

Client : Gulf TSM Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2375088 (6)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number: 2375088 (6)-1

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS4 | | | Comment |
|-------------|---|------------------|-----------|------------|-----|------|---------|----------|---------|
| | | | | | | Spot | Average | Spot/Min | |
| B | Area : Switchyard Control Building Plan : GTS4 : Switchyard Control Room | 2375088 (6)-37 | 18-Aug-23 | Day time | 1 | 423 | 458 | 100 | Pass |
| | | 2375088 (6)-38 | 18-Aug-23 | Day time | 2 | 468 | | | |
| | | 2375088 (6)-39 | 18-Aug-23 | Day time | 3 | 477 | | | |
| | | 2375088 (6)-40 | 18-Aug-23 | Day time | 4 | 465 | | | |
| | | 2375088 (6)-41 | 18-Aug-23 | Night time | 1 | 409 | 442 | 100 | Pass |
| | | 2375088 (6)-42 | 18-Aug-23 | Night time | 2 | 466 | | | |
| | | 2375088 (6)-43 | 18-Aug-23 | Night time | 3 | 453 | | | |
| | | 2375088 (6)-44 | 18-Aug-23 | Night time | 4 | 442 | | | |

Measurement by : Nattakam Vonginyoo
Guideline : Notification of Department of Labour Protection and Welfare, B.E. 2550 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2551 (2018)

Technical Management
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Analysis / Test Report

Client : Gulf TSM Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phrak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2375088 (7)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number: 2375088 (7)-1 C6

Page 1 of 1

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS4 | | | Comment |
|-------------|--|------------------|-----------|------------|-----|-------|---------|----------|---------|
| | | | | | | Spot | Average | Spot/Min | |
| 1 | Spot : Water Treatment Control Building : Fire Pump | 2375088 (7)-1 | 18-Aug-23 | Day time | 1 | 3,290 | - | 300-400 | Pass |
| | | 2375088 (7)-2 | 18-Aug-23 | Day time | 2 | 3,442 | - | 600 | Pass |
| | | 2375088 (7)-3 | 18-Aug-23 | Day time | 3 | 4,239 | - | 300 | Pass |
| | | 2375088 (7)-4 | 18-Aug-23 | Night time | 1 | 315 | - | 300-400 | Pass |
| 2 | Spot : Water Treatment Control Building : Laboratory 1 (Fume Hood) | 2375088 (7)-5 | 18-Aug-23 | Day time | 1 | 489 | - | 400-500 | Pass |
| | | 2375088 (7)-6 | 18-Aug-23 | Night time | 1 | 446 | - | 400-500 | Pass |
| 3 | Spot : Water Treatment Control Building : Laboratory 2 (Water Table) | 2375088 (7)-7 | 18-Aug-23 | Day time | 1 | 572 | - | 400-500 | Pass |
| | | 2375088 (7)-8 | 18-Aug-23 | Night time | 1 | 501 | - | 400-500 | Pass |
| 4 | Spot : Water Treatment Control Building : Office Laboratory | 2375088 (7)-9 | 18-Aug-23 | Day time | 1 | 417 | - | 400-500 | Pass |
| | | 2375088 (7)-10 | 18-Aug-23 | Night time | 1 | 403 | - | 400-500 | Pass |
| 5 | Spot : Water Treatment Control Building : Water Treatment | 2375088 (7)-11 | 18-Aug-23 | Day time | 1 | 572 | - | 300-400 | Pass |
| | | 2375088 (7)-12 | 18-Aug-23 | Night time | 1 | 594 | - | 300-400 | Pass |

Measurement by : Nattakam Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E. 2550 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2551 (2018)

Technical Management
Supt S
Supt Salameh
Section Head

Approved by
Nichan Choonharat
Assistant Manager

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





Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Project Name : Monitoring EIA
Report Number : 2375088 (8)-1 C6
Project Location : GTS4

Lot ID: 2375088 (8)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (8)-1 C6

Page 1 of 2

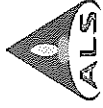
| Lay out No. | Location | Reference Number | Date | Time | No. | Illuminance (Lux) | | Guideline Limit | | Comment |
|-------------|--|------------------|-----------|----------|-----|-------------------|---------|-----------------|---------|---------|
| | | | | | | Spot | Average | Spot/Min | Average | |
| | | | | | | | | | | |
| GTS4 | | | | | | | | | | |
| 1 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 1 | 2375088 (8)-1 | 18-Aug-23 | Day time | 1 | 345 | - | 300-400 | - | Pass |
| 4 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 1 | 2375088 (8)-2 | 18-Aug-23 | Day time | 1 | 413 | - | 400-500 | - | Pass |
| 5 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 2 | 2375088 (8)-3 | 18-Aug-23 | Day time | 1 | 435 | - | 400-500 | - | Pass |
| 6 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 3 | 2375088 (8)-4 | 18-Aug-23 | Day time | 1 | 411 | - | 400-500 | - | Pass |
| 7 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 4 | 2375088 (8)-5 | 18-Aug-23 | Day time | 1 | 408 | - | 400-500 | - | Pass |
| 8 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 1 | 2375088 (8)-6 | 18-Aug-23 | Day time | 1 | 416 | - | 400-500 | - | Pass |
| 9 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 2 | 2375088 (8)-7 | 18-Aug-23 | Day time | 1 | 412 | - | 400-500 | - | Pass |
| 10 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 3 | 2375088 (8)-8 | 18-Aug-23 | Day time | 1 | 422 | - | 400-500 | - | Pass |
| 11 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 4 | 2375088 (8)-9 | 18-Aug-23 | Day time | 1 | 415 | - | 400-500 | - | Pass |
| 12 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 1 | 2375088 (8)-10 | 18-Aug-23 | Day time | 1 | 409 | - | 400-500 | - | Pass |
| 13 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 2 | 2375088 (8)-11 | 18-Aug-23 | Day time | 1 | 413 | - | 400-500 | - | Pass |
| 14 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 3 | 2375088 (8)-12 | 18-Aug-23 | Day time | 1 | 407 | - | 400-500 | - | Pass |
| 15 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME 4 | 2375088 (8)-13 | 18-Aug-23 | Day time | 1 | 402 | - | 400-500 | - | Pass |
| 16 | Spot : Workshop and Warehouse : 2nd Floor : 1st ME Manager | 2375088 (8)-14 | 18-Aug-23 | Day time | 1 | 424 | - | 400-500 | - | Pass |
| 17 | Area : Workshop and Warehouse : 2nd Floor : 1st ME 2 | 2375088 (8)-15 | 18-Aug-23 | Day time | 1 | 412 | 448 | 50 | 100 | Pass |
| | Floor : 1st ME 2 | 2375088 (8)-16 | 18-Aug-23 | Day time | 2 | 392 | - | - | - | Pass |
| | | 2375088 (8)-17 | 18-Aug-23 | Day time | 3 | 541 | | | | |
| 18 | Area : Workshop and Warehouse : 2nd Floor : 1st ME 2 | 2375088 (8)-18 | 18-Aug-23 | Day time | 1 | 99 | 102 | 50 | 100 | Pass |
| | Floor : 1st ME 2 | 2375088 (8)-19 | 18-Aug-23 | Day time | 2 | 104 | | | | |

Technical Management :  Supot Salameh
Section Head

Approved by :  Wichan Choonharat
Assistant Manager

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ALS LABORATORY GROUP (THAILAND) PUBLIC COMPANY LIMITED An ALS Limited Company



Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Project Name : Monitoring EIA
Report Number : 2375088 (8)-1
Project Location : GTS4

Lot ID: 2375088 (8)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number : 2375088 (8)-1

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | Illuminance (Lux) | | Guideline Limit | | Comments |
|-------------|--|--|---|--|-----|-------------------|---------|-----------------|---------|----------|
| | | | | | | Spot | Average | Spot/Min | Average | |
| GTS3 | | | | | | | | | | |
| 19 | Area : Workshop and Warehouse : 2nd Floor : 1st ME 2 | 2375088 (8)-20 2375088 (8)-21 | 18-Aug-23 18-Aug-23 | Day time Day time | 1 | 87 | 114 | 50 | 100 | Pass |
| | | | | | 2 | 141 | | | | |
| 20 | Area : Workshop and Warehouse : 2nd Floor : Washroom | 2375088 (8)-22 2375088 (8)-23 | 18-Aug-23 18-Aug-23 | Day time Day time | 1 | 499 | 470 | 150 | 300 | Pass |
| | | | | | 2 | 441 | | | | |
| 21 | Area : Workshop and Warehouse : 2nd Floor : Washru | 2375088 (8)-24 2375088 (8)-25 | 18-Aug-23 18-Aug-23 | Day time Day time | 1 | 310 | 316 | 50 | 100 | Pass |
| | | | | | 2 | 321 | | | | |
| 22 | Area : Workshop and Warehouse : 2nd Floor : Washru | 2375088 (8)-26 2375088 (8)-27 | 18-Aug-23 18-Aug-23 | Day time Day time | 1 | 362 | 362 | 150 | 300 | Pass |
| | | | | | 2 | 351 | | | | |
| 23 | Area : Workshop and Warehouse : 2nd Floor : Washru W/H | 2375088 (8)-28 2375088 (8)-29 2375088 (8)-30 2375088 (8)-31 2375088 (8)-32 2375088 (8)-33 | 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 | Day time Day time Day time Day time Day time Day time | 3 | 349 | | | | |
| | | | | | 4 | 473 | | | | |
| | | | | | 5 | 309 | | | | |
| | | | | | 6 | 328 | | | | |
| | | | | | 1 | 421 | 466 | 25 | 50 | Pass |
| | | | | | 2 | 511 | | | | |
| 24 | Area : Workshop and Warehouse : 2nd Floor : Store | 2375088 (8)-34 2375088 (8)-35 | 18-Aug-23 18-Aug-23 | Day time Day time | 1 | 114 | 581 | 50 | 100 | Pass |
| | | | | | 2 | 133 | | | | |
| 25 | Area : Workshop and Warehouse : 2nd Floor : Store | 2375088 (8)-36 2375088 (8)-37 2375088 (8)-38 2375088 (8)-39 2375088 (8)-40 2375088 (8)-41 2375088 (8)-42 2375088 (8)-43 2375088 (8)-44 2375088 (8)-45 2375088 (8)-46 2375088 (8)-47 2375088 (8)-48 2375088 (8)-49 | 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 18-Aug-23 | Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time | 3 | 143 | | | | |
| | | | | | 4 | 152 | | | | |
| | | | | | 5 | 600 | | | | |
| | | | | | 6 | 544 | | | | |
| | | | | | 7 | 942 | | | | |
| | | | | | 8 | 831 | | | | |
| | | | | | 9 | 977 | | | | |
| | | | | | 10 | 938 | | | | |
| | | | | | 11 | 745 | | | | |
| | | | | | 12 | 669 | | | | |
| | | | | | 13 | 635 | | | | |
| | | | | | 14 | 739 | | | | |
| | | | | | 15 | 622 | | | | |
| | | | | | 16 | 609 | | | | |

Measurement by : Nattakorn Vonginyoo

Guidelines : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management :  Supot Salameh
Section Head

Approved by :  Wichan Choonharat
Assistant Manager

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ALS LABORATORY GROUP (THAILAND) PUBLIC COMPANY LIMITED An ALS Limited Company



Analysis / Test Report


Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Aug 20, 2023
Project Name : Monitoring EIA
Report Number : 2375088 (9)-1 C6
Project Location: GTS4

Lot ID: 2375088 (9)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number: 2375088 (9)-1
Project Location: GTS4

Page 1 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS4 | | | Comment | |
|-------------|--|------------------|-----------|----------|-----|-------------------|---------|-----------------|---------|---------|
| | | | | | | Illuminance (Lux) | | Guideline Limit | | |
| | | | | | | Spot | Average | Spot/Min | | Average |
| 1 | Area : Workshop and Warehouse : Ground Floor : Store Bin 1 | 2375088 (9)-1 | 18-Aug-23 | Day time | 1 | 519 | 357 | 50 | 100 | Pass |
| | | | 18-Aug-23 | Day time | 2 | 293 | | | | |
| | | | 18-Aug-23 | Day time | 3 | 393 | | | | |
| | | | 18-Aug-23 | Day time | 4 | 380 | | | | |
| | | | 18-Aug-23 | Day time | 5 | 378 | | | | |
| | | | 18-Aug-23 | Day time | 6 | 311 | | | | |
| | | | 18-Aug-23 | Day time | 7 | 367 | | | | |
| | | | 18-Aug-23 | Day time | 8 | 386 | | | | |
| | | | 18-Aug-23 | Day time | 9 | 361 | | | | |
| | | | 18-Aug-23 | Day time | 10 | 455 | | | | |
| | | | 18-Aug-23 | Day time | 11 | 266 | | | | |
| | | | 18-Aug-23 | Day time | 12 | 230 | | | | |
| | | | 18-Aug-23 | Day time | 13 | 373 | | | | |
| | | | 18-Aug-23 | Day time | 14 | 392 | | | | |
| | | | 18-Aug-23 | Day time | 15 | 324 | | | | |
| | | | 18-Aug-23 | Day time | 16 | 287 | | | | |
| 2 | Area : Workshop and Warehouse : Ground Floor : Warehouse W/H | 2375088 (9)-17 | 18-Aug-23 | Day time | 1 | 479 | 372 | 50 | 100 | Pass |
| | | | 18-Aug-23 | Day time | 2 | 266 | | | | |
| 3 | Area : Workshop and Warehouse : Ground Floor : Warehouse W/H Tug | 2375088 (9)-19 | 18-Aug-23 | Day time | 1 | 697 | 662 | 50 | 100 | Pass |
| | | | 18-Aug-23 | Day time | 2 | 627 | | | | |
| 4 | Area : Workshop and Warehouse : Ground Floor : Warehouse Bin 1 | 2375088 (9)-21 | 18-Aug-23 | Day time | 1 | 329 | 336 | 50 | 100 | Pass |
| | | | 18-Aug-23 | Day time | 2 | 344 | | | | |
| | | | 18-Aug-23 | Day time | 3 | 327 | | | | |
| | | | 18-Aug-23 | Day time | 4 | 346 | | | | |
| | | | 18-Aug-23 | Day time | 5 | 355 | | | | |
| | | | 18-Aug-23 | Day time | 6 | 317 | | | | |
| 5 | Area : Workshop and Warehouse : Ground Floor : Warehouse Tool Room (AC 1-3) | 2375088 (9)-27 | 18-Aug-23 | Day time | 1 | 495 | 396 | 50 | 100 | Pass |
| | | | 18-Aug-23 | Day time | 2 | 367 | | | | |
| | | | 18-Aug-23 | Day time | 3 | 327 | | | | |
| 6 | Spot : Workshop and Warehouse : Ground Floor : Warehouse Office 1 T53 | 2375088 (9)-30 | 18-Aug-23 | Day time | 1 | 423 | - | 400-500 | - | Pass |
| | | | | | | | | | | |
| 7 | Spot : Workshop and Warehouse : Ground Floor : Warehouse Office 2 T54 | 2375088 (9)-31 | 18-Aug-23 | Day time | 1 | 634 | - | 400-500 | - | Pass |
| | | | | | | | | | | |
| 8 | Spot : Workshop and Warehouse : Ground Floor : Warehouse Calibration Area T55 | 2375088 (9)-32 | 18-Aug-23 | Day time | 1 | 419 | - | 400-500 | - | Pass |
| | | | | | | | | | | |

Technical Management :  Supat Salantich
Section Head

Approved by :  Wichan Choonharat
Assistant Manager

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+66 0 2760 3000 FAX +66 0 2760 3187

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RIGHT SOLUTIONS



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Aug 20, 2023
Project Name : Monitoring EIA
Report Number : 2375088 (9)-1
Project Location: GTS4

Lot ID: 2375088 (9)
Date Received : Aug 20, 2023
Date Reported : Sep 07, 2023
Report Number: 2375088 (9)-1
Project Location: GTS4

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| Lay out No. | Location | Reference Number | Date | Time | No. | GTS3 | | | | Comment |
|-------------|--|------------------|-----------|----------|-----|-------------------|---------|-----------------|---------|---------|
| | | | | | | Illuminance (Lux) | | Guideline Limit | | |
| | | | | | | Spot | Average | Spot/Min | Average | |
| 9 | Area : Workshop and Warehouse : Ground Floor : โรงงาน อาคาร 1 | 2375088 (9)-33 | 18-Aug-23 | Day time | 1 | 367 | 380 | 150 | 300 | Pass |
| | | | 18-Aug-23 | Day time | 2 | 445 | | | | |
| | | | 18-Aug-23 | Day time | 3 | 344 | | | | |
| | | | 18-Aug-23 | Day time | 4 | 378 | | | | |
| | | | 18-Aug-23 | Day time | 5 | 364 | | | | |
| | | | 18-Aug-23 | Day time | 6 | 375 | | | | |
| | | | 18-Aug-23 | Day time | 7 | 376 | | | | |
| | | | 18-Aug-23 | Day time | 8 | 388 | | | | |
| | | | 18-Aug-23 | Day time | 9 | 380 | | | | |

Measurement by : Nattakarn Vongnyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21, B.E.2561 (2018)

Technical Management :  Supat Salantich
Section Head

Approved by :  Wichan Choonharat
Assistant Manager

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RIGHT SOLUTIONS



Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Taat, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number : 23125282 (1)-1 C6
Project Name : Monitoring EIA
Project Location: GT54

Lot ID: 23125282 (1)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (1)-1 C6
Project Name : Monitoring EIA
Project Location: GT54

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| GTS3 | | | | | | | | | |
|-------------|--|------------------|-----------|----------|-----|------|---------------------------|----------|---------|
| Lay out No. | Location | Reference Number | Date | Time | No. | Spot | Illuminance (Lux) Average | Spot/Min | Comment |
| 1 | Spot : Administration Building : 1st Floor : 1st Admin. 1 | 23125282 (1)-1 | 15-Nov-23 | Day time | 1 | 878 | - | 300-400 | Pass |
| 2 | Spot : Administration Building : 1st Floor : 1st Admin. 1 | 23125282 (1)-2 | 15-Nov-23 | Day time | 1 | 427 | - | 400-500 | Pass |
| 3 | Spot : Administration Building : 1st Floor : 1st Admin. 2 | 23125282 (1)-3 | 15-Nov-23 | Day time | 1 | 462 | - | 400-500 | Pass |
| 4 | Spot : Administration Building : 1st Floor : 1st Operation Manager | 23125282 (1)-4 | 15-Nov-23 | Day time | 1 | 503 | - | 400-500 | Pass |
| 5 | Spot : Administration Building : 1st Floor : 1st EHS | 23125282 (1)-5 | 15-Nov-23 | Day time | 1 | 733 | - | 400-500 | Pass |
| 6 | Spot : Administration Building : 1st Floor : 1st EHS Manager | 23125282 (1)-6 | 15-Nov-23 | Day time | 1 | 968 | - | 400-500 | Pass |
| 7 | Spot : Administration Building : 1st Floor : 1st Admin. Manager | 23125282 (1)-7 | 15-Nov-23 | Day time | 1 | 415 | - | 400-500 | Pass |
| 8 | Spot : Administration Building : 1st Floor : 1st Plant Manager | 23125282 (1)-8 | 15-Nov-23 | Day time | 1 | 456 | - | 400-500 | Pass |
| 9 | Spot : Administration Building : 1st Floor : 1st IT | 23125282 (1)-9 | 15-Nov-23 | Day time | 1 | 429 | - | 400-500 | Pass |
| 10 | Spot : Administration Building : 1st Floor : 1st Admin. 1 | 23125282 (1)-10 | 15-Nov-23 | Day time | 1 | 431 | - | 400-500 | Pass |
| 11 | Spot : Administration Building : 1st Floor : 1st Admin. 2 | 23125282 (1)-11 | 15-Nov-23 | Day time | 1 | 587 | - | 400-500 | Pass |
| 12 | Area : Administration Building : 1st Floor : 1st Admin. 1 | 23125282 (1)-12 | 15-Nov-23 | Day time | 1 | 385 | 433 | 50 | 100 |
| | | 23125282 (1)-13 | 15-Nov-23 | Day time | 2 | 508 | | | |
| | | 23125282 (1)-14 | 15-Nov-23 | Day time | 3 | 414 | | | |
| | | 23125282 (1)-15 | 15-Nov-23 | Day time | 4 | 446 | | | |
| | | 23125282 (1)-16 | 15-Nov-23 | Day time | 5 | 321 | | | |
| | | 23125282 (1)-17 | 15-Nov-23 | Day time | 6 | 523 | | | |
| 13 | Area : Administration Building : 1st Floor : 1st Admin. 1 | 23125282 (1)-18 | 15-Nov-23 | Day time | 1 | 841 | 876 | 100 | 200 |
| | | 23125282 (1)-19 | 15-Nov-23 | Day time | 2 | 910 | | | |

Technical Management
Supat Salameeh
Section Head

Approved by
Wichan Choonharat
Assistant Manager

Technical Management
Supat Salameeh
Section Head

Approved by
Wichan Choonharat
Assistant Manager

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

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TEL: +66 2 2760 3000 FAX: +66 2 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Project Name : Monitoring EIA
Report Number: 23125282 (2)-1 C6
Project Location: GT54

Lot ID: 23125282 (2)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (2)-1 C6

Page 1 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTSS | | | Comment |
|-------------|---|------------------|-----------|------------|-----|------|---------------------------|--------------------------|---------|
| | | | | | | Spot | Illuminance (Lux) Average | Guideline Limit Spot/Min | |
| 1 | Area : CCR : Control Building : 1st Floor : Switchgear Room | 23125282 (2)-1 | 15-Nov-23 | Day time | 1 | 262 | 362 | 100 | Pass |
| | | 23125282 (2)-2 | 15-Nov-23 | Day time | 2 | 374 | | | |
| | | 23125282 (2)-3 | 15-Nov-23 | Day time | 3 | 298 | | | |
| | | 23125282 (2)-4 | 15-Nov-23 | Day time | 4 | 361 | | | |
| | | 23125282 (2)-5 | 15-Nov-23 | Day time | 5 | 314 | | | |
| | | 23125282 (2)-6 | 15-Nov-23 | Day time | 6 | 372 | | | |
| | | 23125282 (2)-7 | 15-Nov-23 | Day time | 7 | 487 | | | |
| | | 23125282 (2)-8 | 15-Nov-23 | Day time | 8 | 362 | | | |
| | | 23125282 (2)-9 | 15-Nov-23 | Day time | 9 | 318 | | | |
| | | 23125282 (2)-10 | 15-Nov-23 | Day time | 10 | 362 | | | |
| | | 23125282 (2)-11 | 15-Nov-23 | Day time | 11 | 340 | | | |
| | | 23125282 (2)-12 | 15-Nov-23 | Day time | 12 | 285 | | | |
| | | 23125282 (2)-13 | 15-Nov-23 | Day time | 13 | 318 | | | |
| | | 23125282 (2)-14 | 15-Nov-23 | Day time | 14 | 414 | | | |
| | | 23125282 (2)-15 | 15-Nov-23 | Day time | 15 | 400 | | | |
| | | 23125282 (2)-16 | 15-Nov-23 | Day time | 16 | 513 | | | |
| | | 23125282 (2)-17 | 15-Nov-23 | Day time | 17 | 442 | | | |
| | | 23125282 (2)-18 | 15-Nov-23 | Day time | 18 | 219 | | | |
| | | 23125282 (2)-19 | 15-Nov-23 | Night time | 1 | 257 | | | |
| | | 23125282 (2)-20 | 15-Nov-23 | Night time | 2 | 341 | | | |
| | | 23125282 (2)-21 | 15-Nov-23 | Night time | 3 | 300 | | | |
| | | 23125282 (2)-22 | 15-Nov-23 | Night time | 4 | 302 | | | |
| | | 23125282 (2)-23 | 15-Nov-23 | Night time | 5 | 283 | | | |
| | | 23125282 (2)-24 | 15-Nov-23 | Night time | 6 | 331 | | | |
| | | 23125282 (2)-25 | 15-Nov-23 | Night time | 7 | 491 | | | |
| | | 23125282 (2)-26 | 15-Nov-23 | Night time | 8 | 367 | | | |
| | | 23125282 (2)-27 | 15-Nov-23 | Night time | 9 | 308 | | | |
| | | 23125282 (2)-28 | 15-Nov-23 | Night time | 10 | 400 | | | |
| | | 23125282 (2)-29 | 15-Nov-23 | Night time | 11 | 342 | | | |
| | | 23125282 (2)-30 | 15-Nov-23 | Night time | 12 | 291 | | | |
| | | 23125282 (2)-31 | 15-Nov-23 | Night time | 13 | 324 | | | |
| | | 23125282 (2)-32 | 15-Nov-23 | Night time | 14 | 391 | | | |
| | | 23125282 (2)-33 | 15-Nov-23 | Night time | 15 | 406 | | | |
| | | 23125282 (2)-34 | 15-Nov-23 | Night time | 16 | 412 | | | |
| | | 23125282 (2)-35 | 15-Nov-23 | Night time | 17 | 431 | | | |
| | | 23125282 (2)-36 | 15-Nov-23 | Night time | 18 | 229 | | | |

Technical Management
Supot Salamech
Section Head

Approved by
Wichan Choonharat
Assistant Manager

Signature
Wichan Choonharat
Assistant Manager

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RIGHT SOLUTIONS



Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Project Name : Monitoring EIA
Report Number: 23125282 (2)-1 C6
Project Location: GT54

Lot ID: 23125282 (2)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (2)-1 C6

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTSS | | | Comment |
|-------------|---|------------------|-----------|------------|-----|------|---------------------------|--------------------------|---------|
| | | | | | | Spot | Illuminance (Lux) Average | Guideline Limit Spot/Min | |
| 2 | Area : CCR : Control Building : 1st Floor : Switchgear Room | 23125282 (2)-37 | 15-Nov-23 | Day time | 1 | 431 | 396 | 50 | Pass |
| | | 23125282 (2)-38 | 15-Nov-23 | Day time | 2 | 362 | | | |
| | | 23125282 (2)-39 | 15-Nov-23 | Night time | 1 | 264 | 288 | 50 | Pass |
| | | 23125282 (2)-40 | 15-Nov-23 | Night time | 2 | 312 | | | |

Measurement by : Amnat Wongrakken

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management
Supot Salamech
Section Head

Approved by
Wichan Choonharat
Assistant Manager

Signature
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Phrak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 23125282 (4)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (4)-1 C6

Page 1 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS3 | | | Comment |
|-------------|---|------------------|-----------|------------|-----|-------|---------------------------|----------------------------------|---------|
| | | | | | | Spot | Illuminance (Lux) Average | Guideline Limit Spot/Min Average | |
| 1 | Area : Electrical Building : ชั้น 2 : Battery Room | 23125282 (4)-1 | 15-Nov-23 | Day time | 1 | 205 | 211 | 100 | Pass |
| | | 23125282 (4)-2 | 15-Nov-23 | Day time | 2 | 217 | | | |
| | | 23125282 (4)-3 | 15-Nov-23 | Night time | 1 | 221 | 215 | 100 | Pass |
| | | 23125282 (4)-4 | 15-Nov-23 | Night time | 2 | 209 | | | |
| | | 23125282 (4)-5 | 15-Nov-23 | Day time | 1 | 1,446 | 1384 | 100 | Pass |
| 2 | Area : Electrical Building : ชั้น 2 : Electrical Room | 23125282 (4)-6 | 15-Nov-23 | Day time | 2 | 991 | | | |
| | | 23125282 (4)-7 | 15-Nov-23 | Day time | 3 | 815 | | | |
| | | 23125282 (4)-8 | 15-Nov-23 | Day time | 4 | 2,383 | | | |
| | | 23125282 (4)-9 | 15-Nov-23 | Day time | 5 | 1,874 | | | |
| | | 23125282 (4)-10 | 15-Nov-23 | Day time | 6 | 1,214 | | | |
| | | 23125282 (4)-11 | 15-Nov-23 | Day time | 7 | 987 | | | |
| | | 23125282 (4)-12 | 15-Nov-23 | Day time | 8 | 899 | | | |
| | | 23125282 (4)-13 | 15-Nov-23 | Day time | 9 | 2,716 | | | |
| | | 23125282 (4)-14 | 15-Nov-23 | Day time | 10 | 2,093 | | | |
| | | 23125282 (4)-15 | 15-Nov-23 | Day time | 11 | 1,068 | | | |
| | | 23125282 (4)-16 | 15-Nov-23 | Day time | 12 | 1,439 | | | |
| | | 23125282 (4)-17 | 15-Nov-23 | Day time | 13 | 1,372 | | | |
| | | 23125282 (4)-18 | 15-Nov-23 | Day time | 14 | 1,846 | | | |
| | | 23125282 (4)-19 | 15-Nov-23 | Day time | 15 | 1,126 | | | |
| | | 23125282 (4)-20 | 15-Nov-23 | Day time | 16 | 1,372 | | | |
| | | 23125282 (4)-21 | 15-Nov-23 | Day time | 17 | 991 | | | |
| | | 23125282 (4)-22 | 15-Nov-23 | Day time | 18 | 1,044 | | | |
| | | 23125282 (4)-23 | 15-Nov-23 | Night time | 1 | 911 | 1080 | 100 | Pass |
| | | 23125282 (4)-24 | 15-Nov-23 | Night time | 2 | 441 | | | |
| | | 23125282 (4)-25 | 15-Nov-23 | Night time | 3 | 741 | | | |
| | | 23125282 (4)-26 | 15-Nov-23 | Night time | 4 | 1,211 | | | |
| | | 23125282 (4)-27 | 15-Nov-23 | Night time | 5 | 1,211 | | | |
| | | 23125282 (4)-28 | 15-Nov-23 | Night time | 6 | 1,126 | | | |
| | | 23125282 (4)-29 | 15-Nov-23 | Night time | 7 | 619 | | | |
| | | 23125282 (4)-30 | 15-Nov-23 | Night time | 8 | 711 | | | |
| | | 23125282 (4)-31 | 15-Nov-23 | Night time | 9 | 1,981 | | | |
| | | 23125282 (4)-32 | 15-Nov-23 | Night time | 10 | 1,819 | | | |
| | | 23125282 (4)-33 | 15-Nov-23 | Night time | 11 | 900 | | | |
| | | 23125282 (4)-34 | 15-Nov-23 | Night time | 12 | 1,211 | | | |
| | | 23125282 (4)-35 | 15-Nov-23 | Night time | 13 | 1,093 | | | |
| | | 23125282 (4)-36 | 15-Nov-23 | Night time | 14 | 1,421 | | | |
| | | 23125282 (4)-37 | 15-Nov-23 | Night time | 15 | 1,099 | | | |
| | | 23125282 (4)-38 | 15-Nov-23 | Night time | 16 | 1,211 | | | |
| | | 23125282 (4)-39 | 15-Nov-23 | Night time | 17 | 811 | | | |
| | | 23125282 (4)-40 | 15-Nov-23 | Night time | 18 | 911 | | | |

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

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Section Head

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Wichan Choocharat
Assistant Manager



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Phrak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 23125282 (4)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (4)-1 C6

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GT53 | | | Comment | |
|-------------|---|------------------|-----------|------------|-----|-------|---------------------------|----------------------------------|---------|------|
| | | | | | | Spot | Illuminance (Lux) Average | Guideline Limit Spot/Min Average | | |
| 3 | Area : Electrical Building : ชั้น 1 : Warehouse | 23125282 (4)-41 | 15-Nov-23 | Day time | 1 | 6,410 | 6010 | 50 | 100 | Pass |
| | | 23125282 (4)-42 | 15-Nov-23 | Day time | 2 | 5,610 | | | | |
| | | 23125282 (4)-43 | 15-Nov-23 | Night time | 1 | 121 | 128 | 50 | 100 | Pass |
| | | 23125282 (4)-44 | 15-Nov-23 | Night time | 2 | 134 | | | | |
| 4 | Area : Electrical Building : ชั้น 2 : Warehouse | 23125282 (4)-45 | 15-Nov-23 | Day time | 1 | 198 | 200 | 50 | 100 | Pass |
| | | 23125282 (4)-46 | 15-Nov-23 | Day time | 2 | 201 | | | | |
| | | 23125282 (4)-47 | 15-Nov-23 | Night time | 1 | 210 | 214 | 50 | 100 | Pass |
| | | 23125282 (4)-48 | 15-Nov-23 | Night time | 2 | 219 | | | | |

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

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Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (5)-1 C6
Project Name : Monitoring EIA
Project Location: GT54

Page 1 of 1

| Lay out No. | Location | Reference Number | Date | Time | No. | Illuminance (Lux) | | | Comment |
|-------------|---|------------------|-----------|------------|-----|-------------------|---------|----------|---------|
| | | | | | | Spot | Average | Spot/Min | |
| 1 | Spot : Electrical Building : ตู้ 3 : Switchgear | 23125282 (5)-1 | 15-Nov-23 | Day time | 1 | 385 | - | 300-400 | Pass |
| | | 23125282 (5)-2 | 15-Nov-23 | Night time | 1 | 377 | - | 300-400 | Pass |
| 2 | Area : Electrical Building : ตู้ 3 : ควบคุม | 23125282 (5)-3 | 15-Nov-23 | Day time | 1 | 326 | 308 | 50 | 100 |
| | | 23125282 (5)-4 | 15-Nov-23 | Day time | 2 | 291 | | | |
| | | 23125282 (5)-5 | 15-Nov-23 | Night time | 1 | 134 | 138 | 50 | 100 |
| | | 23125282 (5)-6 | 15-Nov-23 | Night time | 2 | 141 | | | |

Measurement by : Annat Wongsakhen
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)



Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (6)-1 C6
Project Name : Monitoring EIA
Project Location: GT54

Page 1 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | Illuminance (Lux) | | | Comment |
|-------------|--|------------------|-----------|------------|-----|-------------------|---------|----------|---------|
| | | | | | | Spot | Average | Spot/Min | |
| 1 | Area : Switchyard Control Building Plan : GT53 : Battery Room | 23125282 (6)-1 | 15-Nov-23 | Day time | 1 | 252 | 240 | 100 | 200 |
| | | 23125282 (6)-2 | 15-Nov-23 | Day time | 2 | 227 | | | |
| | | 23125282 (6)-3 | 15-Nov-23 | Night time | 1 | 244 | 270 | 100 | 200 |
| | | 23125282 (6)-4 | 15-Nov-23 | Night time | 2 | 295 | | | |
| 2 | Area : Switchyard Control Building Plan : GT53 : Substation GT53 | 23125282 (6)-5 | 15-Nov-23 | Day time | 1 | 607 | 522 | 100 | 200 |
| | | 23125282 (6)-6 | 15-Nov-23 | Day time | 2 | 615 | | | |
| | | 23125282 (6)-7 | 15-Nov-23 | Day time | 3 | 449 | | | |
| | | 23125282 (6)-8 | 15-Nov-23 | Day time | 4 | 416 | | | |
| | | 23125282 (6)-9 | 15-Nov-23 | Night time | 1 | 346 | 393 | 100 | 200 |
| | | 23125282 (6)-10 | 15-Nov-23 | Night time | 2 | 412 | | | |
| | | 23125282 (6)-11 | 15-Nov-23 | Night time | 3 | 400 | | | |
| | | 23125282 (6)-12 | 15-Nov-23 | Night time | 4 | 414 | | | |
| 3 | Spot : Switchyard Control Building Plan : GT53 : Switchgear | 23125282 (6)-13 | 15-Nov-23 | Day time | 1 | 398 | - | 300-400 | Pass |
| | | 23125282 (6)-14 | 15-Nov-23 | Night time | 1 | 356 | - | 300-400 | Pass |
| 4 | Area : Switchyard Control Building Plan : GT53 : Switchyard Control Room | 23125282 (6)-15 | 15-Nov-23 | Day time | 1 | 446 | 568 | 100 | 200 |
| | | 23125282 (6)-16 | 15-Nov-23 | Day time | 2 | 425 | | | |
| | | 23125282 (6)-17 | 15-Nov-23 | Day time | 3 | 652 | | | |
| | | 23125282 (6)-18 | 15-Nov-23 | Day time | 4 | 748 | | | |
| | | 23125282 (6)-19 | 15-Nov-23 | Night time | 1 | 366 | 434 | 100 | 200 |
| | | 23125282 (6)-20 | 15-Nov-23 | Night time | 2 | 508 | | | |
| | | 23125282 (6)-21 | 15-Nov-23 | Night time | 3 | 551 | | | |
| | | 23125282 (6)-22 | 15-Nov-23 | Night time | 4 | 311 | | | |
| 5 | Area : Switchyard Control Building Plan : GT54 : Battery Room | 23125282 (6)-23 | 15-Nov-23 | Day time | 1 | 204 | 208 | 100 | 200 |
| | | 23125282 (6)-24 | 15-Nov-23 | Day time | 2 | 213 | | | |
| | | 23125282 (6)-25 | 15-Nov-23 | Night time | 1 | 231 | 236 | 100 | 200 |
| | | 23125282 (6)-26 | 15-Nov-23 | Night time | 2 | 242 | | | |
| 6 | Area : Switchyard Control Building Plan : GT54 : Substation GT54 | 23125282 (6)-27 | 15-Nov-23 | Day time | 1 | 498 | 467 | 100 | 200 |
| | | 23125282 (6)-28 | 15-Nov-23 | Day time | 2 | 410 | | | |
| | | 23125282 (6)-29 | 15-Nov-23 | Day time | 3 | 426 | | | |
| | | 23125282 (6)-30 | 15-Nov-23 | Day time | 4 | 533 | | | |
| | | 23125282 (6)-31 | 15-Nov-23 | Night time | 1 | 365 | 400 | 100 | 200 |
| | | 23125282 (6)-32 | 15-Nov-23 | Night time | 2 | 374 | | | |
| | | 23125282 (6)-33 | 15-Nov-23 | Night time | 3 | 347 | | | |
| | | 23125282 (6)-34 | 15-Nov-23 | Night time | 4 | 515 | | | |

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Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Nov 17, 2023
Project Name : Monitoring EIA
Report Number: 23125282 (6)-1 C6
Project Location: GTS4

Lot ID: 23125282 (6)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (6)-1 C6

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | Illuminance (Lux) | | Guideline Limit | | Comment |
|-------------|--|------------------|-----------|------------|-----|-------------------|---------|-----------------|---------|---------|
| | | | | | | Spot | Average | Spot/Min | Average | |
| 7 | Spot : Switchyard Control Building Plan : GTS4 : Switchgear | 23125282 (6)-35 | 15-Nov-23 | Day time | 1 | 455 | - | 300-400 | - | Pass |
| | | 23125282 (6)-36 | 15-Nov-23 | Night time | 1 | 439 | - | 300-400 | - | Pass |
| 8 | Area : Switchyard Control Building Plan : GTS4 : Switchyard Control Room | 23125282 (6)-37 | 15-Nov-23 | Day time | 1 | 549 | 473 | 100 | 200 | Pass |
| | | 23125282 (6)-38 | 15-Nov-23 | Day time | 2 | 410 | - | - | - | - |
| | | 23125282 (6)-39 | 15-Nov-23 | Day time | 3 | 426 | - | - | - | - |
| | | 23125282 (6)-40 | 15-Nov-23 | Day time | 4 | 506 | - | - | - | - |
| | | 23125282 (6)-41 | 15-Nov-23 | Night time | 1 | 515 | 501 | 100 | 200 | Pass |
| | | 23125282 (6)-42 | 15-Nov-23 | Night time | 2 | 501 | - | - | - | - |
| | | 23125282 (6)-43 | 15-Nov-23 | Night time | 3 | 503 | - | - | - | - |
| | | 23125282 (6)-44 | 15-Nov-23 | Night time | 4 | 484 | - | - | - | - |

Measurement by : Amnat Wongrakthan

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Measurement by : Amnat Wongrakthan

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Nov 17, 2023
Project Name : Monitoring EIA
Report Number: 23125282 (7)-1 C6
Project Location: GTS4

Lot ID: 23125282 (7)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (7)-1 C6

Page 1 of 1

| Lay out No. | Location | Reference Number | Date | Time | No. | Illuminance (Lux) | | Guideline Limit | | Comment |
|-------------|--|------------------|-----------|------------|-----|-------------------|---------|-----------------|---------|---------|
| | | | | | | Spot | Average | Spot/Min | Average | |
| 1 | Spot : Water Treatment Control Building : Fire Pump | 23125282 (7)-1 | 15-Nov-23 | Day time | 1 | 3,890 | - | 300-400 | - | Pass |
| | | 23125282 (7)-2 | 15-Nov-23 | Day time | 2 | 4,120 | - | 600 | - | - |
| | | 23125282 (7)-3 | 15-Nov-23 | Day time | 3 | 6,740 | - | 300 | - | - |
| | | 23125282 (7)-4 | 15-Nov-23 | Night time | 1 | 301 | - | 300-400 | - | Pass |
| 2 | Spot : Water Treatment Control Building : Laboratory 1 (Fume Hood) | 23125282 (7)-5 | 15-Nov-23 | Day time | 1 | 501 | - | 400-500 | - | Pass |
| | | 23125282 (7)-6 | 15-Nov-23 | Night time | 1 | 499 | - | 400-500 | - | Pass |
| 3 | Spot : Water Treatment Control Building : Laboratory 2 (Water Table) | 23125282 (7)-7 | 15-Nov-23 | Day time | 1 | 485 | - | 400-500 | - | Pass |
| | | 23125282 (7)-8 | 15-Nov-23 | Night time | 1 | 588 | - | 400-500 | - | Pass |
| 4 | Spot : Water Treatment Control Building : Office Laboratory | 23125282 (7)-9 | 15-Nov-23 | Day time | 1 | 423 | - | 400-500 | - | Pass |
| | | 23125282 (7)-10 | 15-Nov-23 | Night time | 1 | 406 | - | 400-500 | - | Pass |
| 5 | Spot : Water Treatment Control Building : Water Treatment | 23125282 (7)-11 | 15-Nov-23 | Day time | 1 | 620 | - | 300-400 | - | Pass |
| | | 23125282 (7)-12 | 15-Nov-23 | Night time | 1 | 670 | - | 300-400 | - | Pass |

Measurement by : Amnat Wongrakthan

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

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Section Head

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Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number : 23125282 (8)-1 C6
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 23125282 (8)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (8)-1 C6
Project Name : Monitoring EIA
Project Location: GTS4

Page 1 of 2

Page 2 of 2

| GTS3 | | | | | | | | | |
|-------------|---|------------------|-----------|----------|-----|------------------------|---------|----------|-------------------------|
| Lay out No. | Location | Reference Number | Date | Time | No. | Illuminance (Lux) Spot | Average | Spot/Min | Guideline Limit Average |
| 1 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 1 | 23125282 (8)-1 | 15-Nov-23 | Day time | 1 | 317 | - | 300-400 | - |
| 4 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 1 | 23125282 (8)-2 | 15-Nov-23 | Day time | 1 | 405 | - | 400-500 | - |
| 5 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 2 | 23125282 (8)-3 | 15-Nov-23 | Day time | 1 | 432 | - | 400-500 | - |
| 6 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 3 | 23125282 (8)-4 | 15-Nov-23 | Day time | 1 | 410 | - | 400-500 | - |
| 7 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 4 | 23125282 (8)-5 | 15-Nov-23 | Day time | 1 | 419 | - | 400-500 | - |
| 8 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 1 | 23125282 (8)-6 | 15-Nov-23 | Day time | 1 | 438 | - | 400-500 | - |
| 9 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 2 | 23125282 (8)-7 | 15-Nov-23 | Day time | 1 | 441 | - | 400-500 | - |
| 10 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 3 | 23125282 (8)-8 | 15-Nov-23 | Day time | 1 | 404 | - | 400-500 | - |
| 11 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 4 | 23125282 (8)-9 | 15-Nov-23 | Day time | 1 | 419 | - | 400-500 | - |
| 12 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 1 | 23125282 (8)-10 | 15-Nov-23 | Day time | 1 | 403 | - | 400-500 | - |
| 13 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 2 | 23125282 (8)-11 | 15-Nov-23 | Day time | 1 | 408 | - | 400-500 | - |
| 14 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 3 | 23125282 (8)-12 | 15-Nov-23 | Day time | 1 | 449 | - | 400-500 | - |
| 15 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 4 | 23125282 (8)-13 | 15-Nov-23 | Day time | 1 | 471 | - | 400-500 | - |
| 16 | Spot : Workshop and Warehouse : 2nd Floor : Warehouse 1 | 23125282 (8)-14 | 15-Nov-23 | Day time | 1 | 565 | - | 400-500 | - |
| 17 | Area : Workshop and Warehouse : 2nd Floor : Warehouse 1 | 23125282 (8)-15 | 15-Nov-23 | Day time | 1 | 327 | 314 | 50 | 100 |
| | | 23125282 (8)-16 | 15-Nov-23 | Day time | 2 | 302 | | | |
| | | 23125282 (8)-17 | 15-Nov-23 | Day time | 3 | 312 | | | |

Measurement by : Annat Wongkhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management
Supot Salantich
Section Head

Approved by
Wichan Choonharat
Assistant Manager

Technical Management
Supot Salantich
Section Head

Approved by
Wichan Choonharat
Assistant Manager

Results apply to the sample as submitted. Unless time 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 : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasek, Pluek Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 23125282 (9)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (9)-1 C6

Page 1 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS3 | | | | Comment |
|-------------|---|------------------|-----------|----------|-----|-------------------|---------|-----------------|---------|---------|
| | | | | | | Illuminance (Lux) | | Guideline Limit | | |
| | | | | | | Spot | Average | Spot/Min | Average | |
| 1 | Area : Workshop and Warehouse : Ground Floor : Store Bu 1 | 23125282 (9)-1 | 15-Nov-23 | Day time | 1 | 497 | 401 | 100 | 200 | Pass |
| | | 23125282 (9)-2 | 15-Nov-23 | Day time | 2 | 363 | | | | |
| | | 23125282 (9)-3 | 15-Nov-23 | Day time | 3 | 393 | | | | |
| | | 23125282 (9)-4 | 15-Nov-23 | Day time | 4 | 389 | | | | |
| | | 23125282 (9)-5 | 15-Nov-23 | Day time | 5 | 346 | | | | |
| | | 23125282 (9)-6 | 15-Nov-23 | Day time | 6 | 437 | | | | |
| | | 23125282 (9)-7 | 15-Nov-23 | Day time | 7 | 514 | | | | |
| | | 23125282 (9)-8 | 15-Nov-23 | Day time | 8 | 362 | | | | |
| | | 23125282 (9)-9 | 15-Nov-23 | Day time | 9 | 404 | | | | |
| | | 23125282 (9)-10 | 15-Nov-23 | Day time | 10 | 323 | | | | |
| | | 23125282 (9)-11 | 15-Nov-23 | Day time | 11 | 441 | | | | |
| | | 23125282 (9)-12 | 15-Nov-23 | Day time | 12 | 484 | | | | |
| | | 23125282 (9)-13 | 15-Nov-23 | Day time | 13 | 431 | | | | |
| | | 23125282 (9)-14 | 15-Nov-23 | Day time | 14 | 349 | | | | |
| | | 23125282 (9)-15 | 15-Nov-23 | Day time | 15 | 352 | | | | |
| | | 23125282 (9)-16 | 15-Nov-23 | Day time | 16 | 328 | | | | |
| 2 | Area : Workshop and Warehouse : Ground Floor : Warehouse WH | 23125282 (9)-17 | 15-Nov-23 | Day time | 1 | 676 | 768 | 50 | 100 | Pass |
| | | 23125282 (9)-18 | 15-Nov-23 | Day time | 2 | 859 | | | | |
| 3 | Area : Workshop and Warehouse : Ground Floor : Warehouse WH Tng | 23125282 (9)-19 | 15-Nov-23 | Day time | 1 | 1,146 | 1224 | 50 | 100 | Pass |
| | | 23125282 (9)-20 | 15-Nov-23 | Day time | 2 | 1,301 | | | | |
| 4 | Area : Workshop and Warehouse : Ground Floor : Warehouse Bu 1 | 23125282 (9)-21 | 15-Nov-23 | Day time | 1 | 403 | 380 | 50 | 100 | Pass |
| | | 23125282 (9)-22 | 15-Nov-23 | Day time | 2 | 396 | | | | |
| | | 23125282 (9)-23 | 15-Nov-23 | Day time | 3 | 358 | | | | |
| | | 23125282 (9)-24 | 15-Nov-23 | Day time | 4 | 407 | | | | |
| | | 23125282 (9)-25 | 15-Nov-23 | Day time | 5 | 368 | | | | |
| | | 23125282 (9)-26 | 15-Nov-23 | Day time | 6 | 347 | | | | |
| 5 | Area : Workshop and Warehouse : Ground Floor : Warehouse Room (AC 1-3) | 23125282 (9)-27 | 15-Nov-23 | Day time | 1 | 640 | 607 | 100 | 200 | Pass |
| | | 23125282 (9)-28 | 15-Nov-23 | Day time | 2 | 653 | | | | |
| | | 23125282 (9)-29 | 15-Nov-23 | Day time | 3 | 529 | | | | |
| 6 | Spot : Workshop and Warehouse : Ground Floor : Warehouse Office 1 T53 | 23125282 (9)-30 | 15-Nov-23 | Day time | 1 | 443 | - | 400-500 | - | Pass |
| | | | | | | | | | | |
| 7 | Spot : Workshop and Warehouse : Ground Floor : Warehouse Office 2 T54 | 23125282 (9)-31 | 15-Nov-23 | Day time | 1 | 404 | - | 400-500 | - | Pass |
| | | | | | | | | | | |

Technical Management

Supot Salantich
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasek, Pluek Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 23125282 (9)
Date Received : Nov 17, 2023
Date Reported : Nov 21, 2023
Report Number: 23125282 (9)-1 C6

Page 2 of 2

| Lay out No. | Location | Reference Number | Date | Time | No. | GTS3 | | | Illuminance (Lux) | Guideline Limit | | Comment |
|-------------|--|------------------|-----------|----------|-----|------|---------|----------|-------------------|-----------------|------|---------|
| | | | | | | Spot | Average | Spot/Min | | Average | | |
| 8 | Spot : Workshop and Warehouse : Ground Floor : 1st Calibration Unit พื้นที่การสอบเทียบ | 23125282 (9)-32 | 15-Nov-23 | Day time | 1 | 466 | - | 400-500 | - | - | Pass | |
| 9 | Area : Workshop and Warehouse : Ground Floor : 1st Calibration Unit พื้นที่การสอบเทียบ | 23125282 (9)-33 | 15-Nov-23 | Day time | 1 | 632 | 537 | 150 | 300 | - | Pass | |
| | | 23125282 (9)-34 | 15-Nov-23 | Day time | 2 | 542 | | | | | | |
| | | 23125282 (9)-35 | 15-Nov-23 | Day time | 3 | 495 | | | | | | |
| | | 23125282 (9)-36 | 15-Nov-23 | Day time | 4 | 460 | | | | | | |
| | | 23125282 (9)-37 | 15-Nov-23 | Day time | 5 | 539 | | | | | | |
| | | 23125282 (9)-38 | 15-Nov-23 | Day time | 6 | 615 | | | | | | |
| | | 23125282 (9)-39 | 15-Nov-23 | Day time | 7 | 523 | | | | | | |
| | | 23125282 (9)-40 | 15-Nov-23 | Day time | 8 | 495 | | | | | | |
| | | 23125282 (9)-41 | 15-Nov-23 | Day time | 9 | 530 | | | | | | |

Measurement by : Annat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 35D dated February 21 B.E.2561 (2018)

Technical Management

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ภาคผนวก ค-10

แผนผังแสดงเส้นระดับเสียง (Noise Contour Map)



Reference Number : Lot 20133934-1

Measurement Date : Aug 26, 2021



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