

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321491
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2577950-1

Page 1 of 1

Sample Description : Air Quality
Location : บริเวณด้านทิศตะวันออกของโครงการ (A1) (GPS 47P 0733041, 1404296)
Date Analysis Commenced : Apr 26, 2023
Condition of Sample : Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2321491-1	Apr 18 - Apr 19, 2023	0.058	0.026	758	32
2321491-2	Apr 19 - Apr 20, 2023	0.087	0.042	758	32
2321491-3	Apr 20 - Apr 21, 2023	0.054	0.039	758	32
2321491-4	Apr 21 - Apr 22, 2023	0.106	0.050	758	32
2321491-5	Apr 22 - Apr 23, 2023	0.102	0.050	758	32
2321491-6	Apr 23 - Apr 24, 2023	0.038	0.022	758	32
2321491-7	Apr 24 - Apr 25, 2023	0.077	0.019	758	32
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 : Kantaphon Maneesampan

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321491
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2577950-2

Page 1 of 1

Sample Description : Air Quality
Location : ศูนย์วิจัยและพัฒนาสิ่งแวดล้อมสงขลา (A2) (GPS 47P 0731971, 1408110)
Date Analysis Commenced : Apr 26, 2023
Condition of Sample : Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2321491-8	Apr 18 - Apr 19, 2023	0.040	0.027	758	32
2321491-9	Apr 19 - Apr 20, 2023	0.056	0.039	758	32
2321491-10	Apr 20 - Apr 21, 2023	0.062	0.040	758	32
2321491-11	Apr 21 - Apr 22, 2023	0.069	0.053	758	32
2321491-12	Apr 22 - Apr 23, 2023	0.069	0.047	758	32
2321491-13	Apr 23 - Apr 24, 2023	0.041	0.025	758	32
2321491-14	Apr 24 - Apr 25, 2023	0.061	0.030	758	32
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 : Kantaphon Maneesampan

Remark :

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321491
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2577950-3

Page 1 of 1

Sample Description Air Quality
Location เมืองหนองนาคราช (A3) (GPS 47P 0735023, 1406283)
Date Analysis Commenced Apr 26, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2321491-15	Apr 18 - Apr 19, 2023	0.048	0.029	758	32
2321491-16	Apr 19 - Apr 20, 2023	0.073	0.044	758	32
2321491-17	Apr 20 - Apr 21, 2023	0.084	0.047	758	32
2321491-18	Apr 21 - Apr 22, 2023	0.091	0.050	758	32
2321491-19	Apr 22 - Apr 23, 2023	0.085	0.030	758	32
2321491-20	Apr 23 - Apr 24, 2023	0.062	0.014	758	32
2321491-21	Apr 24 - Apr 25, 2023	0.081	0.035	758	32
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 : Kantaphon Maneesampan

Remark :

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

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321491
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2577950-4

Page 1 of 1

Sample Description Air Quality
Location โรงเรือนบำบัดน้ำเสีย (โกลดเวย์จันทร) (A4) (GPS 47P 0735347, 1406723)
Date Analysis Commenced Apr 26, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2321491-22	Apr 18 - Apr 19, 2023	0.054	0.047	758	32
2321491-23	Apr 19 - Apr 20, 2023	0.058	0.044	758	32
2321491-24	Apr 20 - Apr 21, 2023	0.097	0.045	758	32
2321491-25	Apr 21 - Apr 22, 2023	0.093	0.053	758	32
2321491-26	Apr 22 - Apr 23, 2023	0.075	0.041	758	32
2321491-27	Apr 23 - Apr 24, 2023	0.054	0.021	758	32
2321491-28	Apr 24 - Apr 25, 2023	0.080	0.028	758	32
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 : Kantaphon Maneesampan

Remark :

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321489
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2577957-1

Page 1 of 1

Sample Description Air Quality
Location รั้วด้านทิศตะวันออกของโครงการ (A1) (GPS 47P 0733041, 1404296)
Parameter Sulfur Dioxide (ppm)
Measurement Date Apr 18, 2023 - Apr 25, 2023
Measurement by Kantaphon Maneesampan

	2321489-1	2321489-2	2321489-3	2321489-4	2321489-5	2321489-6	2321489-7
Time	Apr 18, 2023	Apr 19, 2023	Apr 20, 2023	Apr 21, 2023	Apr 22, 2023	Apr 23, 2023	Apr 24, 2023
09:00 AM - 10:00 AM	0.001	0.003	0.003	0.003	0.003	0.004	0.004
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.003	0.003	0.004	0.004
11:00 AM - 12:00 PM	0.004	0.003	0.003	0.003	0.003	0.004	0.004
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.003	0.003	0.004	0.004
01:00 PM - 02:00 PM	0.003	0.003	0.004	0.003	0.003	0.004	0.004
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.004	0.003	0.004
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.003	0.004	0.004
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.003	0.003	0.004	0.004
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.003	0.004	0.004
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.003	0.002	0.003	0.003	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.003	0.002	0.003	0.003	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.003	0.002	0.003	0.003	0.004	0.004	0.004
02:00 AM - 03:00 AM	0.003	0.002	0.003	0.003	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
Average	0.003	0.003	0.003	0.003	0.003	0.004	0.004
1hr - Maximum	0.004	0.003	0.004	0.003	0.004	0.004	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321489
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2640360-1

Page 1 of 1

Sample Description Air Quality
Location ศูนย์วิจัยและพัฒนาสิ่งแวดล้อมสงขลัม (A2) (GPS 47P 0731971, 1408110)
Parameter Sulfur Dioxide (ppm)
Measurement Date Apr 18, 2023 - Apr 25, 2023
Measurement by Kantaphon Maneesampan

	2321489-8	2321489-9	2321489-10	2321489-11	2321489-12	2321489-13	2321489-14
Time	Apr 18, 2023	Apr 19, 2023	Apr 20, 2023	Apr 21, 2023	Apr 22, 2023	Apr 23, 2023	Apr 24, 2023
11:00 AM - 12:00 PM	0.007	0.008	0.008	0.007	0.008	0.008	0.007
12:00 PM - 01:00 PM	0.008	0.008	0.008	0.007	0.008	0.008	0.007
01:00 PM - 02:00 PM	0.008	0.008	0.008	0.007	0.008	0.008	0.007
02:00 PM - 03:00 PM	0.008	0.011	0.008	0.007	0.008	0.008	0.008
03:00 PM - 04:00 PM	0.008	0.009	0.008	0.008	0.008	0.008	0.008
04:00 PM - 05:00 PM	0.008	0.009	0.008	0.008	0.008	0.008	0.008
05:00 PM - 06:00 PM	0.008	0.008	0.008	0.008	0.008	0.008	0.008
06:00 PM - 07:00 PM	0.008	0.008	0.008	0.008	0.008	0.008	0.008
07:00 PM - 08:00 PM	0.008	0.008	0.008	0.008	0.008	0.008	0.008
08:00 PM - 09:00 PM	0.008	0.008	0.008	0.008	0.008	0.007	0.008
09:00 PM - 10:00 PM	0.008	0.008	0.008	0.007	0.008	0.007	0.008
10:00 PM - 11:00 PM	0.008	0.008	0.008	0.007	0.008	0.008	0.008
11:00 PM - 12:00 AM	0.008	0.008	0.008	0.008	0.008	0.008	0.008
12:00 AM - 01:00 AM	0.008	0.008	0.008	0.007	0.008	0.008	0.008
01:00 AM - 02:00 AM	0.008	0.008	0.008	0.007	0.008	0.008	0.008
02:00 AM - 03:00 AM	0.008	0.008	0.008	0.007	0.008	0.008	0.008
03:00 AM - 04:00 AM	0.008	0.008	0.008	0.008	0.007	0.008	0.008
04:00 AM - 05:00 AM	0.008	0.008	0.008	0.007	0.008	0.008	0.008
05:00 AM - 06:00 AM	0.008	0.008	0.008	0.008	0.008	0.008	0.008
06:00 AM - 07:00 AM	0.008	0.008	0.007	0.007	0.008	0.008	0.007
07:00 AM - 08:00 AM	0.008	0.008	0.007	0.008	0.007	0.008	0.007
08:00 AM - 09:00 AM	0.008	0.008	0.007	0.008	0.008	0.008	0.008
09:00 AM - 10:00 AM	0.008	0.008	0.007	0.008	0.008	0.008	0.007
10:00 AM - 11:00 AM	0.008	0.008	0.007	0.008	0.008	0.008	0.008
Average	0.008	0.008	0.007	0.007	0.008	0.008	0.008
1hr - Maximum	0.008	0.011	0.008	0.008	0.008	0.008	0.008
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 : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321489
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2640363-1

Page 1 of 1

Sample Description Air Quality
Location เมืองใหม่บางตาพร (A3) (GPS 47P 0735023, 1406283)
Parameter Sulfur Dioxide (ppm)
Measurement Date Apr 18, 2023 - Apr 25, 2023
Measurement by Kantaphon Maneesampan

Time	2321489-15 Apr 18, 2023	2321489-16 Apr 19, 2023	2321489-17 Apr 20, 2023	2321489-18 Apr 21, 2023	2321489-19 Apr 22, 2023	2321489-20 Apr 23, 2023	2321489-21 Apr 24, 2023
10:00 AM - 11:00 AM	0.031	0.020	0.036	0.028	0.022	0.040	0.037
11:00 AM - 12:00 PM	0.022	0.020	0.046	0.025	0.020	0.030	0.033
12:00 PM - 01:00 PM	0.034	0.020	0.040	0.023	0.020	0.032	0.025
01:00 PM - 02:00 PM	0.028	0.022	0.041	0.027	0.020	0.040	0.027
02:00 PM - 03:00 PM	0.021	0.022	0.028	0.040	0.020	0.041	0.022
03:00 PM - 04:00 PM	0.020	0.020	0.022	0.023	0.020	0.027	0.021
04:00 PM - 05:00 PM	0.019	0.020	0.021	0.021	0.020	0.021	0.020
05:00 PM - 06:00 PM	0.019	0.020	0.020	0.020	0.020	0.020	0.020
06:00 PM - 07:00 PM	0.019	0.020	0.020	0.020	0.020	0.020	0.020
07:00 PM - 08:00 PM	0.019	0.020	0.020	0.020	0.020	0.021	0.020
08:00 PM - 09:00 PM	0.019	0.020	0.020	0.020	0.020	0.020	0.020
09:00 PM - 10:00 PM	0.019	0.020	0.020	0.020	0.020	0.020	0.020
10:00 PM - 11:00 PM	0.019	0.020	0.020	0.020	0.020	0.022	0.020
11:00 PM - 12:00 AM	0.019	0.020	0.020	0.020	0.020	0.023	0.020
12:00 AM - 01:00 AM	0.020	0.020	0.020	0.020	0.020	0.023	0.020
01:00 AM - 02:00 AM	0.020	0.020	0.020	0.020	0.020	0.023	0.021
02:00 AM - 03:00 AM	0.020	0.020	0.020	0.020	0.020	0.022	0.021
03:00 AM - 04:00 AM	0.020	0.020	0.020	0.020	0.020	0.021	0.021
04:00 AM - 05:00 AM	0.023	0.022	0.020	0.020	0.022	0.021	0.021
05:00 AM - 06:00 AM	0.025	0.021	0.020	0.020	0.023	0.020	0.021
06:00 AM - 07:00 AM	0.024	0.021	0.020	0.021	0.022	0.020	0.021
07:00 AM - 08:00 AM	0.022	0.020	0.020	0.021	0.020	0.020	0.033
08:00 AM - 09:00 AM	0.020	0.020	0.021	0.025	0.024	0.023	0.022
09:00 AM - 10:00 AM	0.020	0.020	0.024	0.033	0.041	0.029	0.022
Average	0.022	0.020	0.024	0.023	0.021	0.025	0.023
1hr - Maximum	0.034	0.022	0.046	0.040	0.041	0.041	0.037
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 : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321489
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2640364-1

Page 1 of 1

Sample Description Air Quality
Location โรงเรียนบ้านบางตาพร (โศภนราษฎร์รังสรรค์) (A4) (GPS 47P 0735347, 1406723)
Parameter Sulfur Dioxide (ppm)
Measurement Date Apr 18, 2023 - Apr 25, 2023
Measurement by Kantaphon Maneesampan

Time	2321489-22 Apr 18, 2023	2321489-23 Apr 19, 2023	2321489-24 Apr 20, 2023	2321489-25 Apr 21, 2023	2321489-26 Apr 22, 2023	2321489-27 Apr 23, 2023	2321489-28 Apr 24, 2023
02:00 PM - 03:00 PM	0.003	0.004	0.006	0.007	0.003	0.016	0.007
03:00 PM - 04:00 PM	0.004	0.003	0.012	0.006	0.002	0.008	0.010
04:00 PM - 05:00 PM	0.008	0.006	0.014	0.003	0.001	0.006	0.004
05:00 PM - 06:00 PM	0.011	0.009	0.012	0.007	0.002	0.010	0.003
06:00 PM - 07:00 PM	0.004	0.009	0.008	0.019	0.001	0.009	0.003
07:00 PM - 08:00 PM	0.002	0.002	0.003	0.005	0.002	0.008	<0.001
08:00 PM - 09:00 PM	0.003	0.003	0.002	0.002	0.002	0.002	<0.001
09:00 PM - 10:00 PM	0.003	0.003	0.002	0.002	0.002	0.003	0.001
10:00 PM - 11:00 PM	0.004	0.004	0.003	0.003	0.003	0.004	0.002
11:00 PM - 12:00 AM	0.005	0.004	0.003	0.003	0.003	0.004	0.002
12:00 AM - 01:00 AM	0.004	0.005	0.003	0.003	0.003	0.004	0.002
01:00 AM - 02:00 AM	0.004	0.004	0.003	0.004	0.003	0.004	0.002
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.003	0.004	0.005	0.002
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.003	0.004	0.005	0.003
04:00 AM - 05:00 AM	0.006	0.004	0.004	0.003	0.004	0.006	0.003
05:00 AM - 06:00 AM	0.005	0.004	0.004	0.003	0.004	0.006	0.004
06:00 AM - 07:00 AM	0.004	0.004	0.004	0.004	0.004	0.005	0.003
07:00 AM - 08:00 AM	0.004	0.004	0.006	0.004	0.004	0.004	0.003
08:00 AM - 09:00 AM	0.007	0.006	0.005	0.004	0.005	0.004	0.003
09:00 AM - 10:00 AM	0.013	0.005	0.004	0.004	0.007	0.004	0.003
10:00 AM - 11:00 AM	0.010	0.004	0.004	0.007	0.005	0.004	0.004
11:00 AM - 12:00 PM	0.008	0.003	0.002	0.005	0.003	0.003	0.006
12:00 PM - 01:00 PM	0.004	0.002	0.003	0.005	0.006	0.005	0.009
01:00 PM - 02:00 PM	0.003	0.002	0.003	0.012	0.015	0.007	0.004
Average	0.005	0.004	0.005	0.005	0.004	0.006	0.004
1hr - Maximum	0.013	0.009	0.014	0.019	0.015	0.016	0.010
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

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321488
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2577958-1

Page 1 of 1

Sample Description Air Quality
Location ริมรั้วด้านทิศตะวันออกของโครงการ (A1) (GPS 47P 0733041, 1404296)
Parameter Nitrogen dioxide (ppm)
Measurement Date Apr 18, 2023 - Apr 25, 2023
Measurement by Kantaphon Maneesampan

Time	2321488-1 Apr 18, 2023	2321488-2 Apr 19, 2023	2321488-3 Apr 20, 2023	2321488-4 Apr 21, 2023	2321488-5 Apr 22, 2023	2321488-6 Apr 23, 2023	2321488-7 Apr 24, 2023
09:00 AM - 10:00 AM	0.001	0.002	0.005	0.004	0.006	0.002	0.006
10:00 AM - 11:00 AM	0.002	<0.001	0.002	0.002	0.002	<0.001	0.005
11:00 AM - 12:00 PM	0.001	<0.001	0.006	0.003	0.006	<0.001	0.002
12:00 PM - 01:00 PM	0.001	0.003	0.006	0.010	0.010	0.003	0.002
01:00 PM - 02:00 PM	0.001	0.001	0.005	0.002	0.005	0.001	0.001
02:00 PM - 03:00 PM	0.017	0.001	0.016	0.002	0.008	0.001	0.002
03:00 PM - 04:00 PM	0.001	0.003	0.005	0.002	0.007	0.002	0.005
04:00 PM - 05:00 PM	0.001	0.003	0.001	0.002	0.005	0.001	0.004
05:00 PM - 06:00 PM	0.002	0.005	0.002	0.004	0.004	0.002	0.004
06:00 PM - 07:00 PM	0.003	0.008	0.006	0.005	0.010	0.004	0.006
07:00 PM - 08:00 PM	0.001	0.004	0.003	0.003	0.003	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.003	0.002	0.003	0.002	0.001	0.001
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.003	0.004	0.002	0.004
10:00 PM - 11:00 PM	0.001	0.001	<0.001	0.002	0.003	0.001	0.003
11:00 PM - 12:00 AM	0.001	0.001	0.001	0.001	0.002	0.001	0.002
12:00 AM - 01:00 AM	0.001	0.003	0.002	0.002	0.003	0.002	0.003
01:00 AM - 02:00 AM	0.001	0.001	<0.001	0.002	0.003	0.001	0.004
02:00 AM - 03:00 AM	0.001	0.001	0.001	0.002	0.002	<0.001	0.004
03:00 AM - 04:00 AM	<0.001	0.001	0.002	0.002	0.003	0.002	0.002
04:00 AM - 05:00 AM	<0.001	0.002	<0.001	0.001	0.001	<0.001	<0.001
05:00 AM - 06:00 AM	0.002	<0.001	0.001	<0.001	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.004	0.002	0.001	0.002	0.004	0.007	0.005
07:00 AM - 08:00 AM	0.002	0.001	<0.001	0.001	0.002	0.004	0.004
08:00 AM - 09:00 AM	0.002	0.004	0.002	0.003	0.002	0.002	0.003
Average	0.002	0.002	0.003	0.003	0.004	0.002	0.003
1hr - Maximum	0.017	0.008	0.016	0.010	0.010	0.007	0.006
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321488
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2640353-1

Page 1 of 1

Sample Description Air Quality
Location ศูนย์ข่าววิทยาศาสตร์และเวชศาสตร์สิ่งแวดล้อม (A2) (GPS 47P 0731971, 1408110)
Parameter Nitrogen dioxide (ppm)
Measurement Date Apr 18, 2023 - Apr 25, 2023
Measurement by Kantaphon Maneesampan

Time	2321488-8 Apr 18, 2023	2321488-9 Apr 19, 2023	2321488-10 Apr 20, 2023	2321488-11 Apr 21, 2023	2321488-12 Apr 22, 2023	2321488-13 Apr 23, 2023	2321488-14 Apr 24, 2023
11:00 AM - 12:00 PM	0.003	0.003	0.006	0.004	0.004	0.010	0.004
12:00 PM - 01:00 PM	0.005	0.002	0.008	0.005	0.004	0.012	0.004
01:00 PM - 02:00 PM	0.007	0.005	0.009	0.006	0.004	0.006	0.004
02:00 PM - 03:00 PM	0.006	0.008	0.007	0.005	0.006	0.006	0.003
03:00 PM - 04:00 PM	0.004	0.005	0.008	0.007	0.004	0.005	0.004
04:00 PM - 05:00 PM	0.004	0.007	0.009	0.004	0.004	0.003	0.004
05:00 PM - 06:00 PM	0.003	0.008	0.007	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.003	0.008	0.004	0.002	0.005	0.005	0.004
07:00 PM - 08:00 PM	0.004	0.010	0.002	0.005	0.005	0.001	0.004
08:00 PM - 09:00 PM	0.004	0.007	0.002	0.011	0.007	0.007	0.004
09:00 PM - 10:00 PM	0.008	0.005	0.003	0.011	0.002	0.005	0.004
10:00 PM - 11:00 PM	0.006	0.007	0.006	0.004	0.003	0.003	0.005
11:00 PM - 12:00 AM	0.005	0.004	0.005	0.005	0.003	0.002	0.006
12:00 AM - 01:00 AM	0.006	0.005	0.003	0.004	0.005	0.003	0.012
01:00 AM - 02:00 AM	0.008	0.006	0.004	0.002	0.003	0.003	0.026
02:00 AM - 03:00 AM	0.005	0.004	0.002	0.002	0.001	0.002	0.021
03:00 AM - 04:00 AM	0.005	0.004	0.004	0.003	0.002	0.001	0.011
04:00 AM - 05:00 AM	0.004	0.005	0.005	0.003	0.004	0.002	0.010
05:00 AM - 06:00 AM	0.004	0.002	0.008	0.005	0.005	0.002	0.009
06:00 AM - 07:00 AM	0.003	0.001	0.008	0.003	0.003	0.001	0.010
07:00 AM - 08:00 AM	0.004	0.001	0.003	0.006	0.004	0.002	0.010
08:00 AM - 09:00 AM	0.002	0.002	0.004	0.004	0.004	0.002	0.016
09:00 AM - 10:00 AM	0.002	0.004	0.003	0.007	0.006	0.002	0.008
10:00 AM - 11:00 AM	0.002	0.005	0.004	0.004	0.006	0.002	0.006
Average	0.004	0.005	0.005	0.005	0.004	0.004	0.008
1hr - Maximum	0.008	0.010	0.009	0.011	0.007	0.012	0.026
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321488
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2640354-1

Page 1 of 1

Sample Description Air Quality
Location เมืองใหม่บางตาพร (A3) (GPS 47P 0735023, 1406283)
Parameter Nitrogen dioxide (ppm)
Measurement Date Apr 18, 2023 - Apr 25, 2023
Measurement by Kantaphon Maneesampan

Time	2321488-15 Apr 18, 2023	2321488-16 Apr 19, 2023	2321488-17 Apr 20, 2023	2321488-18 Apr 21, 2023	2321488-19 Apr 22, 2023	2321488-20 Apr 23, 2023	2321488-21 Apr 24, 2023
10:00 AM - 11:00 AM	0.018	0.016	0.044	0.025	0.008	0.019	0.023
11:00 AM - 12:00 PM	0.025	0.019	0.034	0.024	0.008	0.022	0.016
12:00 PM - 01:00 PM	0.017	0.021	0.032	0.029	0.008	0.028	0.016
01:00 PM - 02:00 PM	0.010	0.018	0.020	0.041	0.008	0.030	0.013
02:00 PM - 03:00 PM	0.009	0.015	0.010	0.019	0.008	0.014	0.020
03:00 PM - 04:00 PM	0.008	0.013	0.009	0.013	0.009	0.010	0.026
04:00 PM - 05:00 PM	0.008	0.012	0.009	0.012	0.008	0.010	0.035
05:00 PM - 06:00 PM	0.008	0.012	0.009	0.011	0.008	0.009	0.035
06:00 PM - 07:00 PM	0.008	0.012	0.009	0.008	0.008	0.010	0.028
07:00 PM - 08:00 PM	0.010	0.012	0.009	0.008	0.008	0.010	0.024
08:00 PM - 09:00 PM	0.010	0.011	0.009	0.006	0.008	0.010	0.022
09:00 PM - 10:00 PM	0.012	0.011	0.010	0.007	0.008	0.012	0.020
10:00 PM - 11:00 PM	0.016	0.011	0.010	0.008	0.008	0.012	0.020
11:00 PM - 12:00 AM	0.020	0.011	0.010	0.008	0.008	0.013	0.021
12:00 AM - 01:00 AM	0.022	0.011	0.010	0.008	0.009	0.011	0.020
01:00 AM - 02:00 AM	0.023	0.012	0.010	0.009	0.010	0.008	0.019
02:00 AM - 03:00 AM	0.024	0.014	0.010	0.010	0.010	0.011	0.020
03:00 AM - 04:00 AM	0.026	0.014	0.014	0.010	0.018	0.015	0.018
04:00 AM - 05:00 AM	0.026	0.014	0.015	0.015	0.016	0.023	0.021
05:00 AM - 06:00 AM	0.027	0.012	0.017	0.015	0.014	0.013	0.020
06:00 AM - 07:00 AM	0.023	0.009	0.015	0.012	0.013	0.012	0.020
07:00 AM - 08:00 AM	0.020	0.008	0.015	0.014	0.020	0.019	0.021
08:00 AM - 09:00 AM	0.014	0.014	0.020	0.020	0.037	0.018	0.025
09:00 AM - 10:00 AM	0.015	0.037	0.027	0.009	0.030	0.024	0.024
Average	0.017	0.014	0.016	0.014	0.012	0.015	0.022
1hr - Maximum	0.027	0.037	0.044	0.041	0.037	0.030	0.035
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321488
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2640358-1

Page 1 of 1

Sample Description Air Quality
Location โรงเรียนบ้านบางตาพร (โศภนราษฎร์รังสรรค์) (A4) (GPS 47P 0735347, 1406723)
Parameter Nitrogen dioxide (ppm)
Measurement Date Apr 18, 2023 - Apr 25, 2023
Measurement by Kantaphon Maneesampan

Time	2321488-22 Apr 18, 2023	2321488-23 Apr 19, 2023	2321488-24 Apr 20, 2023	2321488-25 Apr 21, 2023	2321488-26 Apr 22, 2023	2321488-27 Apr 23, 2023	2321488-28 Apr 24, 2023
02:00 PM - 03:00 PM	0.002	0.005	0.007	0.012	0.008	0.011	0.012
03:00 PM - 04:00 PM	0.004	0.004	0.021	0.016	0.004	0.008	0.021
04:00 PM - 05:00 PM	0.007	0.006	0.020	0.010	0.001	0.006	0.011
05:00 PM - 06:00 PM	0.011	0.011	0.018	0.015	0.002	0.009	0.009
06:00 PM - 07:00 PM	0.006	0.012	0.016	0.030	0.002	0.009	0.010
07:00 PM - 08:00 PM	0.003	0.004	0.009	0.022	0.003	0.009	0.006
08:00 PM - 09:00 PM	0.003	0.003	0.006	0.015	0.004	0.005	0.008
09:00 PM - 10:00 PM	0.004	0.004	0.005	0.020	0.004	0.005	0.011
10:00 PM - 11:00 PM	0.004	0.004	0.004	0.026	0.004	0.005	0.016
11:00 PM - 12:00 AM	0.004	0.003	0.003	0.026	0.003	0.006	0.019
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.020	0.002	0.004	0.016
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.016	0.002	0.003	0.014
02:00 AM - 03:00 AM	0.001	0.002	0.002	0.010	0.002	0.004	0.012
03:00 AM - 04:00 AM	0.001	0.002	0.002	0.005	0.002	0.005	0.012
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.003	0.001	0.006	0.012
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.001	0.006	0.012
06:00 AM - 07:00 AM	0.002	0.002	0.003	0.002	0.001	0.006	0.011
07:00 AM - 08:00 AM	0.003	0.004	0.007	0.004	0.002	0.006	0.011
08:00 AM - 09:00 AM	0.008	0.007	0.008	0.003	0.005	0.007	0.010
09:00 AM - 10:00 AM	0.013	0.007	0.009	0.004	0.008	0.008	0.010
10:00 AM - 11:00 AM	0.012	0.008	0.008	0.009	0.005	0.007	0.011
11:00 AM - 12:00 PM	0.010	0.007	0.006	0.007	0.003	0.004	0.013
12:00 PM - 01:00 PM	0.006	0.004	0.004	0.005	0.005	0.009	0.016
01:00 PM - 02:00 PM	0.004	0.003	0.006	0.011	0.009	0.014	0.011
Average	0.005	0.005	0.007	0.012	0.004	0.007	0.012
1hr - Maximum	0.013	0.012	0.021	0.030	0.009	0.014	0.021
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID : 2321490
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number : 2577952-1

Page 1 of 2

Sample Number : 2321490-1 to 7
Parameter : Wind Speed / Wind Direction
Location : บริเวณพื้นที่ตะวันออกของโครงการ (A1) (GPS 47P 0733041, 1404296)
Sampling Date : Apr 18 - Apr 25, 2023
Sampling by : Kantaphon Maneesampan

Time	Apr 18 - Apr 19, 2023		Apr 19 - Apr 20, 2023		Apr 20 - Apr 21, 2023		Apr 21 - Apr 22, 2023		Apr 22 - Apr 23, 2023		Apr 23 - Apr 24, 2023		Apr 24 - Apr 25, 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	0.9	156.0	SSE	4.2	168.0	SSE	0.0	-	1.9	168.0	SSE	0.7	150.0	SSE
10:00 AM - 11:00 AM	1.8	172.0	S	1.9	195.0	SSW	1.1	178.0	S	1.5	161.0	SSE	1.2	199.0
11:00 AM - 12:00 PM	2.8	165.0	SSE	1.9	165.0	SSE	1.1	158.0	SSE	2.4	195.0	SSW	1.9	160.0
12:00 PM - 01:00 PM	0.6	160.0	SSE	2.0	161.0	SSE	2.1	124.0	SE	3.2	177.0	S	0.9	132.0
01:00 PM - 02:00 PM	2.2	130.0	SE	2.7	165.0	SSE	0.5	183.0	S	2.3	176.0	S	1.2	212.0
02:00 PM - 03:00 PM	2.6	201.0	SSW	3.5	155.0	SSE	1.3	171.0	S	1.4	171.0	S	1.2	157.0
03:00 PM - 04:00 PM	1.9	157.0	SSE	2.5	170.0	S	1.9	158.0	SSE	2.4	175.0	S	2.6	191.0
04:00 PM - 05:00 PM	1.7	178.0	S	1.3	179.0	S	1.7	191.0	S	4.0	179.0	S	2.7	175.0
05:00 PM - 06:00 PM	1.2	145.0	SE	1.2	148.0	SSE	1.2	165.0	SSE	1.0	150.0	SSE	0.9	159.0
06:00 PM - 07:00 PM	1.1	158.0	SSE	1.3	159.0	SSE	1.0	156.0	SSE	1.9	165.0	SSE	1.1	162.0
07:00 PM - 08:00 PM	2.0	131.0	SE	0.8	167.0	SSE	1.2	152.0	SSE	1.1	172.0	S	1.3	164.0
08:00 PM - 09:00 PM	1.5	170.0	S	1.6	150.0	SSE	1.1	125.0	SE	0.6	162.0	SSE	2.5	167.0
09:00 PM - 10:00 PM	3.1	164.0	SSE	2.2	165.0	SSE	0.7	155.0	SSE	1.7	181.0	S	0.0	-
10:00 PM - 11:00 PM	1.6	169.0	S	1.4	165.0	SSE	1.8	167.0	SSE	0.6	158.0	SSE	0.7	199.0
11:00 PM - 12:00 AM	1.4	175.0	S	1.3	209.0	SSW	1.6	160.0	SSE	2.8	178.0	S	1.4	311.0
12:00 AM - 01:00 AM	1.8	155.0	SSE	1.0	170.0	S	0.9	177.0	S	1.2	180.0	S	0.8	160.0
01:00 AM - 02:00 AM	1.7	155.0	SSE	1.1	185.0	S	1.4	183.0	S	1.3	166.0	SSE	0.8	175.0
02:00 AM - 03:00 AM	1.4	169.0	S	1.1	169.0	S	2.4	173.0	S	1.7	170.0	S	0.9	189.0
03:00 AM - 04:00 AM	1.5	166.0	SSE	3.0	157.0	SSE	0.8	172.0	S	2.0	178.0	S	0.7	169.0
04:00 AM - 05:00 AM	1.1	170.0	S	2.5	164.0	SSE	0.8	159.0	SSE	2.3	169.0	S	1.4	176.0
05:00 AM - 06:00 AM	2.4	145.0	SE	0.2	-	-	0.3	163.0	SSE	0.9	156.0	SSE	0.9	173.0
06:00 AM - 07:00 AM	0.9	178.0	S	1.3	177.0	S	0.7	160.0	SSE	3.0	177.0	S	2.3	141.0
07:00 AM - 08:00 AM	0.5	142.0	SE	0.5	186.0	S	0.9	175.0	S	2.5	160.0	SSE	2.8	175.0
08:00 AM - 09:00 AM	0.9	178.0	S	1.0	158.0	SSE	0.7	185.0	S	1.6	179.0	S	2.8	172.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranoit
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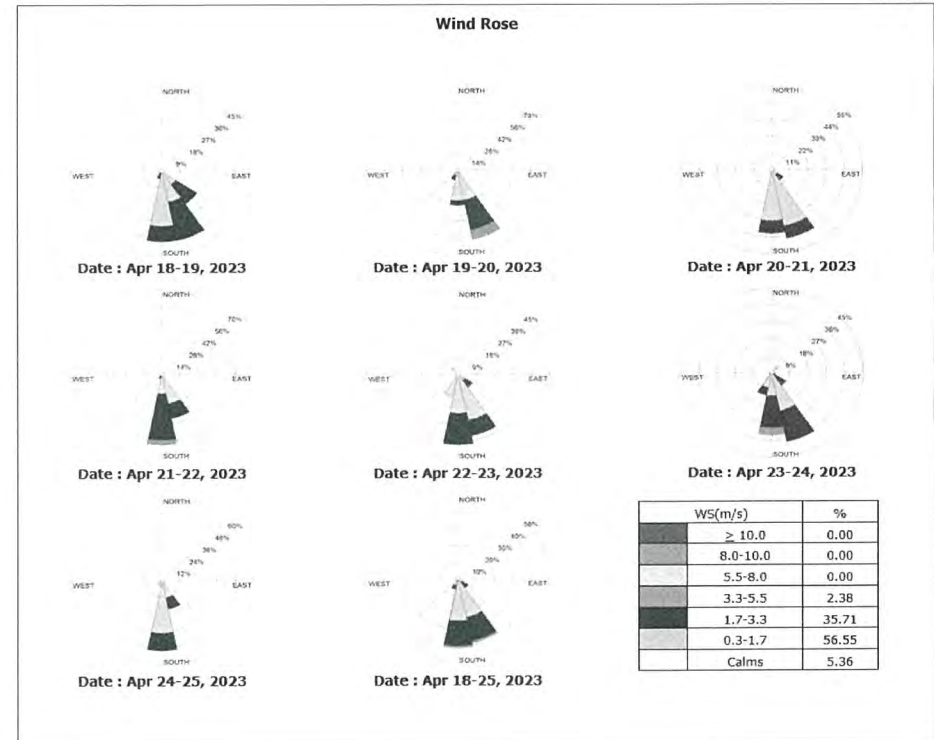


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P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID : 2321490
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Date Reported : May 03, 2023
Report Number : 2577952-1

Page 1 of 2

Sample Number 2321490-8 to 14
Parameter Wind Speed / Wind Direction
Location ศูนย์วิจัยศาสตร์และวิทยาศาสตร์สิ่งแวดล้อม (A2) (GPS 47P 0731971, 1408110)
Sampling Date Apr 18 - Apr 25, 2023
Sampling by Kantaphon Maneesampan

Time	Apr 18 - Apr 19, 2023			Apr 19 - Apr 20, 2023			Apr 20 - Apr 21, 2023			Apr 21 - Apr 22, 2023			Apr 22 - Apr 23, 2023			Apr 23 - Apr 24, 2023			Apr 24 - Apr 25, 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)	
11:00 AM - 12:00 PM	0.6	186.0	S	0.0	-	-	1.0	152.0	SSE	0.4	199.0	SSW	1.4	156.0	SSE	0.8	203.0	SSW	0.4	196.0	SSW
12:00 PM - 01:00 PM	0.6	225.0	SW	0.5	142.0	SE	2.3	131.0	SE	0.7	172.0	S	2.0	183.0	S	0.5	224.0	SW	0.4	175.0	S
01:00 PM - 02:00 PM	0.8	179.0	S	1.3	221.0	SW	2.2	145.0	SE	0.6	222.0	SW	0.0	-	-	0.4	210.0	SSW	2.4	121.0	ESE
02:00 PM - 03:00 PM	0.4	147.0	SSE	0.8	120.0	ESE	1.0	177.0	S	0.8	226.0	SW	1.5	229.0	SW	0.7	178.0	S	0.9	125.0	SE
03:00 PM - 04:00 PM	0.9	129.0	SE	1.9	174.0	S	0.4	227.0	SW	0.5	240.0	WSW	1.6	215.0	SW	0.2	-	-	0.5	143.0	SE
04:00 PM - 05:00 PM	0.3	160.0	SSE	1.5	207.0	SSW	0.2	-	-	0.7	209.0	SSW	2.4	246.0	WSW	0.7	161.0	SSE	0.6	210.0	SSW
05:00 PM - 06:00 PM	0.6	214.0	SW	1.8	189.0	S	0.7	208.0	SSW	3.4	159.0	SSE	0.9	196.0	SSW	0.0	-	-	0.4	156.0	SSE
06:00 PM - 07:00 PM	0.8	237.0	WSW	0.7	214.0	SW	1.6	171.0	S	3.1	216.0	SW	1.3	239.0	WSW	0.0	-	-	1.1	219.0	SW
07:00 PM - 08:00 PM	0.6	223.0	SW	0.9	164.0	SSE	0.7	217.0	SW	0.6	234.0	SW	0.7	221.0	SW	0.6	238.0	WSW	1.2	133.0	SE
08:00 PM - 09:00 PM	0.3	219.0	SW	0.6	238.0	WSW	0.9	185.0	S	0.6	170.0	S	1.3	217.0	SW	0.8	186.0	S	2.6	237.0	WSW
09:00 PM - 10:00 PM	0.4	233.0	SW	1.8	220.0	SW	1.6	139.0	SE	1.1	226.0	SW	1.2	235.0	SW	0.0	-	-	2.4	223.0	SW
10:00 PM - 11:00 PM	0.3	194.0	SSW	0.0	-	-	0.4	160.0	SSE	1.0	195.0	SSW	1.0	208.0	SSW	0.1	-	-	3.4	244.0	WSW
11:00 PM - 12:00 AM	1.4	240.0	WSW	0.0	-	-	0.6	146.0	SE	0.3	209.0	SSW	1.4	158.0	SSE	0.0	-	-	1.4	198.0	SSW
12:00 AM - 01:00 AM	1.2	184.0	S	0.0	-	-	0.4	154.0	SSE	0.6	201.0	SSW	2.0	158.0	SSE	0.5	153.0	SSE	1.5	198.0	SSW
01:00 AM - 02:00 AM	1.9	202.0	SSW	0.4	183.0	S	0.8	204.0	SSW	0.2	-	-	1.0	172.0	S	1.2	207.0	SSW	2.0	180.0	S
02:00 AM - 03:00 AM	0.9	177.0	S	0.0	-	-	0.0	-	-	0.3	208.0	SSW	0.6	135.0	SE	0.5	144.0	SE	1.8	223.0	SW
03:00 AM - 04:00 AM	0.7	127.0	SE	1.0	174.0	S	0.4	229.0	SW	0.4	226.0	SW	2.0	181.0	S	1.1	230.0	SW	0.8	173.0	S
04:00 AM - 05:00 AM	0.8	131.0	SE	3.0	242.0	WSW	0.8	225.0	SW	0.2	-	-	0.9	213.0	SSW	0.6	126.0	SE	0.1	-	-
05:00 AM - 06:00 AM	1.8	145.0	SE	0.0	-	-	0.2	-	-	0.6	176.0	S	0.3	231.0	SW	0.7	176.0	S	0.5	127.0	SE
06:00 AM - 07:00 AM	0.2	-	-	0.3	137.0	SE	0.6	222.0	SW	0.4	233.0	SW	0.4	118.0	ESE	1.2	221.0	SW	0.9	158.0	SSE
07:00 AM - 08:00 AM	0.2	-	-	0.4	187.0	S	0.5	236.0	SW	0.0	-	-	0.6	168.0	SSE	1.3	239.0	WSW	0.4	166.0	SSE
08:00 AM - 09:00 AM	0.3	165.0	SSE	0.0	-	-	0.7	199.0	SSW	0.0	-	-	0.7	211.0	SSW	0.6	196.0	SSW	0.6	182.0	S
09:00 AM - 10:00 AM	1.3	151.0	SSE	0.1	-	-	0.7	245.0	WSW	0.5	210.0	SSW	0.5	93.0	E	0.4	246.0	WSW	1.4	179.0	S
10:00 AM - 11:00 AM	0.9	151.0	SSE	0.0	-	-	1.0	181.0	S	1.0	174.0	S	0.8	249.0	WSW	0.3	182.0	S	1.1	160.0	SSE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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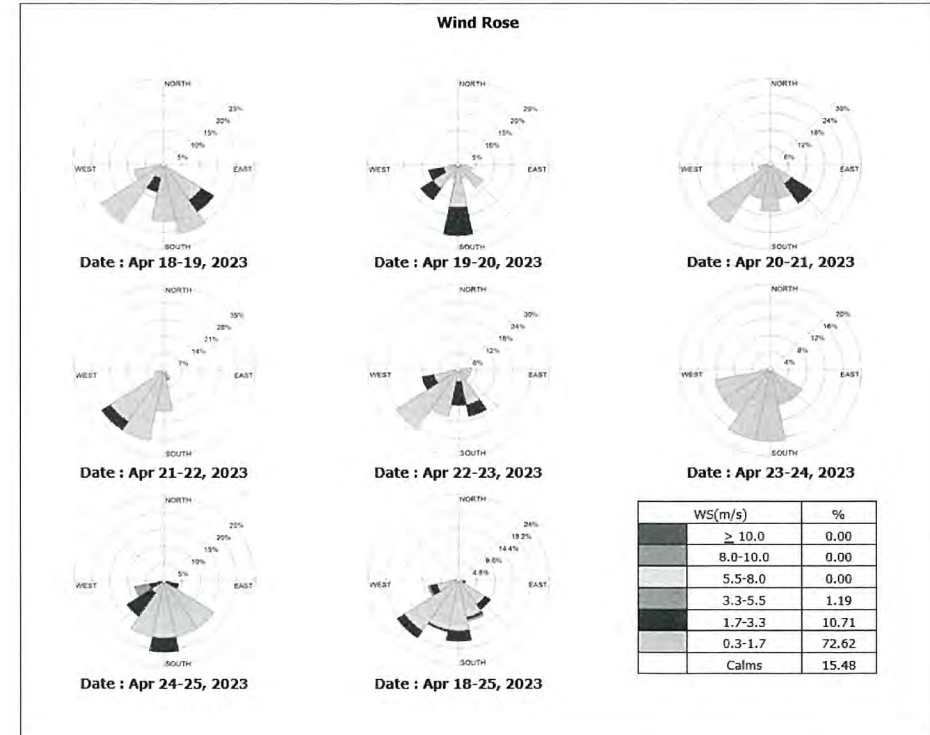


Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID : 2321490
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Page 2 of 2



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Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
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Project Name :
Project Location : GEN

Lot ID : 2321490
Date Received : Apr 26, 2023
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Report Number : 2577952-1

Page 1 of 2

Sample Number : 2321490-15 to 21
Parameter : Wind Speed / Wind Direction
Location : เมืองหนองจอก (A3) (GPS 47P 0735023, 1406283)
Sampling Date : Apr 18 - Apr 25, 2023
Sampling by : Kantaphon Manesampan

Time	Apr 18 - Apr 19, 2023			Apr 19 - Apr 20, 2023			Apr 20 - Apr 21, 2023			Apr 21 - Apr 22, 2023			Apr 22 - Apr 23, 2023			Apr 23 - Apr 24, 2023			Apr 24 - Apr 25, 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	0.4	188.0	S	3.4	220.0	SW	2.0	5.0	N	0.8	140.0	SE	1.9	127.0	SE	1.4	194.0	SSW	0.3	248.0	WSW
11:00 AM - 12:00 PM	0.8	216.0	SW	1.7	248.0	WSW	1.0	285.0	WNW	0.8	141.0	SE	1.6	197.0	SSW	0.9	177.0	S	1.3	126.0	SE
12:00 PM - 01:00 PM	1.0	177.0	S	0.5	211.0	SSW	0.2	-	-	0.6	182.0	S	2.4	223.0	SW	1.2	196.0	SSW	1.6	114.0	ESE
01:00 PM - 02:00 PM	0.6	196.0	SSW	1.9	240.0	WSW	3.5	290.0	WNW	0.6	167.0	SSE	1.3	221.0	SW	1.2	183.0	S	1.1	243.0	WSW
02:00 PM - 03:00 PM	1.7	243.0	WSW	1.5	166.0	SSE	1.1	177.0	S	0.2	-	-	1.4	233.0	SW	1.6	189.0	S	1.2	195.0	SSW
03:00 PM - 04:00 PM	1.0	219.0	SW	1.3	29.0	NNE	2.3	236.0	SW	0.0	-	-	3.8	227.0	SW	1.2	240.0	WSW	0.6	223.0	SW
04:00 PM - 05:00 PM	0.7	231.0	SW	1.0	147.0	SSE	0.5	197.0	SSW	1.8	208.0	SSW	1.5	229.0	SW	0.9	206.0	SSW	3.3	104.0	ESE
05:00 PM - 06:00 PM	0.6	190.0	S	2.4	180.0	S	1.4	240.0	WSW	1.2	228.0	SW	2.9	229.0	SW	0.9	197.0	SSW	0.5	48.0	NE
06:00 PM - 07:00 PM	1.5	194.0	SSW	1.8	190.0	S	0.5	192.0	SSW	0.5	193.0	SSW	0.4	201.0	SSW	1.1	219.0	SW	0.8	21.0	NNE
07:00 PM - 08:00 PM	0.2	-	-	0.6	209.0	SSW	1.5	199.0	SSW	0.3	201.0	SSW	0.9	165.0	SSE	0.8	217.0	SW	0.0	-	-
08:00 PM - 09:00 PM	0.2	-	-	0.5	223.0	SW	1.7	219.0	SW	0.0	-	-	1.8	209.0	SSW	1.2	169.0	S	0.7	141.0	SE
09:00 PM - 10:00 PM	0.1	-	-	0.9	229.0	SW	1.9	250.0	WSW	0.0	-	-	0.6	205.0	SSW	0.1	-	-	0.0	-	-
10:00 PM - 11:00 PM	1.3	221.0	SW	0.5	177.0	S	1.0	190.0	S	0.0	-	-	0.8	182.0	S	1.1	191.0	S	0.0	-	-
11:00 PM - 12:00 AM	0.8	196.0	SSW	0.7	213.0	SSW	0.0	-	-	0.5	206.0	SSW	0.0	-	-	0.3	197.0	SSW	0.5	159.0	SSE
12:00 AM - 01:00 AM	0.0	-	-	2.2	184.0	S	2.6	193.0	SSW	0.1	-	-	0.6	199.0	SSW	1.4	185.0	S	0.0	-	-
01:00 AM - 02:00 AM	0.8	204.0	SSW	0.1	-	-	0.0	-	-	1.5	159.0	SSE	0.0	-	-	1.0	212.0	SSW	0.0	-	-
02:00 AM - 03:00 AM	1.6	195.0	SSW	0.2	-	-	0.5	183.0	S	0.2	-	-	0.1	-	-	0.5	293.0	WNW	0.5	87.0	E
03:00 AM - 04:00 AM	0.3	204.0	SSW	2.4	219.0	SW	0.6	177.0	S	0.5	174.0	S	0.6	183.0	S	0.1	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.6	187.0	S	1.3	213.0	SSW	0.2	-	-	1.8	192.0	SSW	0.0	-	-	1.3	188.0	S	0.0	-	-
05:00 AM - 06:00 AM	0.6	284.0	WNW	2.3	188.0	S	0.6	226.0	SW	0.3	204.0	SSW	0.1	-	-	0.0	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.8	229.0	SW	0.0	-	-	1.0	183.0	S	0.4	212.0	SSW	0.7	113.0	ESE	0.0	-	-
07:00 AM - 08:00 AM	0.0	-	-	0.0	-	-	0.6	124.0	SE	0.0	-	-	0.9	226.0	SW	0.0	-	-	0.4	40.0	NE
08:00 AM - 09:00 AM	0.2	-	-	0.2	-	-	0.8	104.0	ESE	0.8	189.0	S	0.6	171.0	S	0.7	57.0	ENE	0.2	-	-
09:00 AM - 10:00 AM	0.5	224.0	SW	1.2	39.0	NE	0.0	-	-	1.2	238.0	WSW	0.5	191.0	S	0.3	306.0	NW	0.4	101.0	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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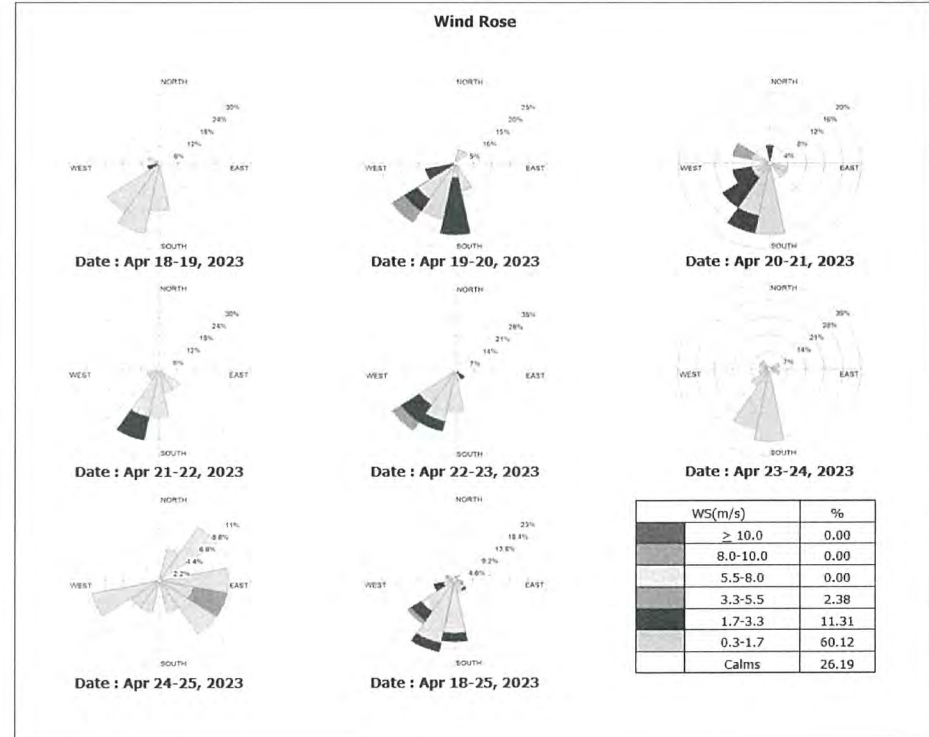


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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID : 2321490
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number : 2577952-1

Page 1 of 2

Sample Number 2321490-22 to 28
Parameter Wind Speed / Wind Direction
Location โรงเรือนนำนกมาทดสอบ (โสมธารมัญญะ) (A4) (GPS 47P 0735347, 1406723)
Sampling Date Apr 18 - Apr 25, 2023
Sampling by Kantaphon Maneesampan

Time	Apr 18 - Apr 19, 2023			Apr 19 - Apr 20, 2023			Apr 20 - Apr 21, 2023			Apr 21 - Apr 22, 2023			Apr 22 - Apr 23, 2023			Apr 23 - Apr 24, 2023			Apr 24 - Apr 25, 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)	
02:00 PM - 03:00 PM	1.0	293.0	WNW	2.2	157.0	SSE	1.2	160.0	SSE	0.6	175.0	S	1.4	29.0	NNE	1.1	254.0	WSW	1.2	257.0	WSW
03:00 PM - 04:00 PM	0.6	305.0	NW	1.7	261.0	W	2.1	193.0	SSW	0.7	234.0	SW	0.4	322.0	NW	2.0	193.0	SSW	1.3	167.0	SSE
04:00 PM - 05:00 PM	1.5	329.0	NNW	1.5	250.0	WSW	1.9	147.0	SSE	1.8	215.0	SW	1.5	345.0	NNW	2.1	199.0	SSW	1.1	310.0	NW
05:00 PM - 06:00 PM	1.1	133.0	SE	1.1	246.0	WSW	1.1	355.0	N	2.2	236.0	SW	0.8	283.0	WNW	0.4	350.0	N	1.7	223.0	SW
06:00 PM - 07:00 PM	1.0	233.0	SW	1.7	302.0	WNW	1.4	157.0	SSE	1.0	269.0	W	1.2	220.0	SW	1.2	0.0	N	1.4	124.0	SE
07:00 PM - 08:00 PM	1.2	285.0	WNW	1.0	267.0	W	0.6	272.0	W	0.5	234.0	SW	0.4	241.0	WSW	2.2	280.0	W	1.3	333.0	NNW
08:00 PM - 09:00 PM	1.6	278.0	W	0.6	241.0	WSW	2.1	168.0	SSE	0.2	-	-	2.2	224.0	SW	0.8	304.0	NW	0.4	155.0	SSE
09:00 PM - 10:00 PM	1.6	218.0	SW	0.8	281.0	W	1.2	302.0	WNW	0.4	234.0	SW	1.8	244.0	WSW	1.2	291.0	WNW	0.1	-	-
10:00 PM - 11:00 PM	0.3	252.0	WSW	0.0	-	-	0.4	248.0	WSW	0.3	246.0	WSW	0.9	154.0	SSE	0.6	308.0	NW	0.7	214.0	SW
11:00 PM - 12:00 AM	1.9	216.0	SW	0.2	-	-	1.6	251.0	WSW	1.1	217.0	SW	0.4	125.0	SE	1.0	225.0	SW	0.9	175.0	S
12:00 AM - 01:00 AM	0.4	250.0	WSW	0.2	-	-	2.3	221.0	SW	1.1	237.0	WSW	0.2	-	-	0.6	284.0	WNW	0.9	208.0	SSW
01:00 AM - 02:00 AM	0.6	243.0	WSW	0.7	215.0	SW	1.4	168.0	SSE	1.0	231.0	SW	1.3	131.0	SE	0.7	253.0	WSW	0.1	-	-
02:00 AM - 03:00 AM	1.1	215.0	SW	1.4	210.0	SSW	0.6	271.0	W	0.9	241.0	WSW	1.7	257.0	WSW	0.5	249.0	WSW	0.7	144.0	SE
03:00 AM - 04:00 AM	0.5	228.0	SW	0.7	282.0	WNW	1.3	214.0	SW	0.5	257.0	WSW	1.4	223.0	SW	2.8	230.0	SW	0.0	-	-
04:00 AM - 05:00 AM	0.7	269.0	W	1.6	186.0	S	0.0	-	-	1.3	264.0	W	0.3	204.0	SSW	0.6	303.0	WNW	0.3	159.0	SSE
05:00 AM - 06:00 AM	1.9	178.0	S	1.0	300.0	WNW	0.2	-	-	2.0	203.0	SSW	0.9	194.0	SSW	0.4	221.0	SW	0.6	173.0	S
06:00 AM - 07:00 AM	1.2	211.0	SSW	0.8	261.0	W	0.0	-	-	1.8	161.0	SSE	0.6	265.0	W	0.3	232.0	SW	0.0	-	-
07:00 AM - 08:00 AM	0.5	299.0	WNW	1.3	249.0	WSW	0.2	-	-	1.0	244.0	WSW	0.8	261.0	W	0.2	-	-	1.1	167.0	SSE
08:00 AM - 09:00 AM	0.7	237.0	WSW	0.2	-	-	0.4	86.0	E	1.4	256.0	WSW	0.5	335.0	NNW	0.3	188.0	S	0.4	350.0	N
09:00 AM - 10:00 AM	1.7	328.0	NNW	0.4	279.0	W	0.7	68.0	ENE	1.2	245.0	WSW	0.3	323.0	NW	0.6	124.0	SE	1.1	166.0	SSE
10:00 AM - 11:00 AM	0.1	-	-	1.3	339.0	NNW	0.6	11.0	N	0.3	301.0	WNW	2.0	211.0	SSW	0.8	327.0	NNW	0.1	-	-
11:00 AM - 12:00 PM	0.6	287.0	WNW	0.9	303.0	WNW	0.9	6.0	N	0.5	275.0	W	0.5	209.0	SSW	1.2	261.0	W	0.3	219.0	SW
12:00 PM - 01:00 PM	2.8	202.0	SSW	1.2	235.0	SW	2.0	203.0	SSW	1.8	235.0	SW	1.5	185.0	S	3.0	201.0	SSW	0.5	210.0	SSW
01:00 PM - 02:00 PM	0.8	248.0	WSW	0.9	304.0	NW	2.6	219.0	SW	1.3	291.0	WNW	4.9	210.0	SSW	0.7	139.0	SE	0.5	197.0	SSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager

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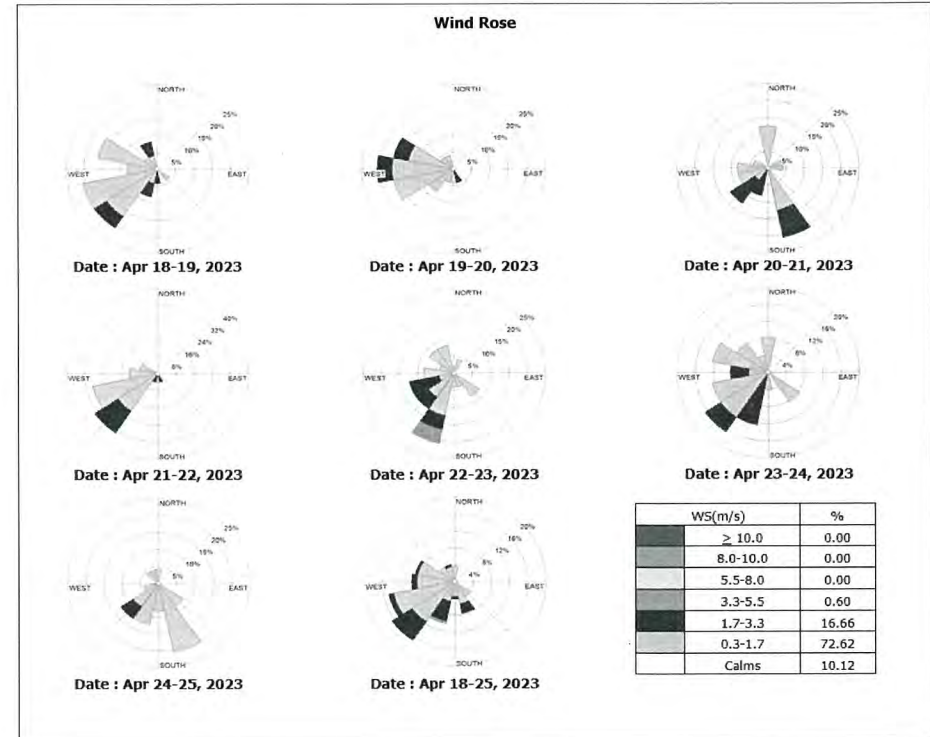


Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID : 2321490
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number : 2577952-1

Page 2 of 2



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Sarayuth Jittrantont
Assistant General Manager

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ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบาย



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321516
Date Received : Apr 21, 2023
Date Reported : May 02, 2023
Report Number : 2577991-1

Page 1 of 1

Sample Number 2321516-1
Sample Description Emission from Stationary Source
Location HRSG 41
Sampled Date Apr 20, 2023

Stack Description									
Ambient Temperature	33	°C	Diameter	3.00	m	Oxygen	12.61	%	
Ambient Pressure	756	mmHg	Shape	Circle		Carbon dioxide	4.84	%	
Type of Process	Combustion		Stack Temperature	104	°C	Gas Velocity	15.04	m/s	
Type of Fuel	Natural Gas		Moisture	9.48	%	Flow Rate	272003	Nm3/hr	

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)		Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	10:30 AM - 10:50 AM	12.55	4.87	0.60	0.99	20.02	33.32	0.20	0.33
2	10:51 AM - 11:11 AM	12.67	4.80	0.65	1.09	19.95	33.70	0.15	0.26
3	11:12 AM - 11:32 AM	12.61	4.84	0.59	0.99	21.10	35.36	0.21	0.36
Average (ppm)		12.61	4.84	0.61	1.03	20.36	34.13	0.19	0.32
Guideline ^{1/} (ppm)				-	-	-	54.00	-	1.2
Guideline ^{2/} (ppm)				-	-	-	120	-	20
Guideline ^{3/} (ppm)				-	690	-	-	-	-
Result (mg/Nm ³)				0.70	1.18	38.30	64.21	0.49	0.83
Emission Rate at Actual O ₂ (g/s)				0.053		2.894		0.037	
Guideline ^{1/} (g/s)				-		7.24		0.22	
Method				US EPA Method 10		US EPA Method 7E		US EPA Method 6C	

Sampled By : Anuvut Moungpai

Guideline : ^{1/} Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED

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

^{3/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ 2-204-ก-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
ทะเบียนเลขที่ 2-204-ก-4702

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321523
Date Received : Apr 20, 2023
Date Reported : May 05, 2023
Report Number: 2577984-1

Page 1 of 2

Sample Number 2321523-1
Sampled Date Apr 20, 2023
Sample Description Emission from Stationary Source
Location HRSG 41
Date Analysis Commenced Apr 21, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	756	mmHg	Diameter	3.00	m	Oxygen	12.6	%	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.8	%	
Type of Process	Combustion		Stack Temperature	104	°C	Gas Velocity	15.0	m/s	
Type of Fuel	Natural Gas		Moisture	9.47	%	Flow Rate (Actual O ₂)	271703	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂ at 12.6 % O ₂		Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	10:30 AM - 11:18 AM	mg/m3	-	0.5	0.9	0.54	15	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

Guideline (1) Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED.

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ 2-204-ก-4717

Approved by

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ 2-204-ก-6111

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321523
Date Received : Apr 20, 2023
Date Reported : May 05, 2023
Report Number: 2577984-1

Page 2 of 2

Sample Number 2321523-1
Sampled Date Apr 20, 2023
Sample Description Emission from Stationary Source
Location HRSG 41
Date Analysis Commenced Apr 21, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	756	mmHg	Diameter	3.00	m	Oxygen	12.6	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.8	%
Type of Process	Combustion		Stack Temperature	104	°C	Gas Velocity	15.0	m/s
Type of Fuel	Natural Gas		Moisture	9.47	%	Flow Rate (Actual O2)	271703	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:30 AM - 11:18 AM	g/s	-	-	0.04	1.07	-	Calculated	Bangkok

Guideline :

Guideline (1) Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED.
Guideline (2) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

Sampled By : AnechaTansamai, Saksit Phaisanphisut

Remark :

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

Technical Management

Sarenya C.

Sarenya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ๖-204-๖-4717

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ๖-204-๖-6111

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321546
Date Received : Apr 21, 2023
Date Reported : May 02, 2023
Report Number : 2577990-1

Page 1 of 1

Sample Number 2321546-1
Sample Description Emission from Stationary Source
Location HRSG 42
Sampled Date Apr 20, 2023

Stack Description

Ambient Temperature	33	°C	Diameter	3.00	m	Oxygen	13.00	%
Ambient Pressure	756	mmHg	Shape	Circle		Carbon dioxide	4.60	%
Type of Process	Combustion		Stack Temperature	118	°C	Gas Velocity	21.12	m/s
Type of Fuel	Natural Gas		Moisture	9.84	%	Flow Rate	366937	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)		Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	12:25 PM - 12:45 PM	13.03	4.58	0.48	0.85	19.90	35.14	0.29	0.51
2	12:46 PM - 01:06 PM	12.93	4.64	0.36	0.62	21.26	37.09	0.23	0.39
3	01:07 PM - 01:27 PM	13.05	4.57	0.46	0.82	22.38	39.65	0.21	0.36
Average (ppm)		13.00	4.60	0.43	0.77	21.18	37.29	0.24	0.42
Guideline ^{1/} (ppm)				-	-	-	54.00	-	1.2
Guideline ^{2/} (ppm)				-	-	-	120	-	20
Guideline ^{3/} (ppm)				-	690	-	-	-	-
Result (mg/Nm ³)				0.50	0.88	39.85	70.16	0.63	1.11
Emission Rate at Actual O ₂ (g/s)				0.051		4.062		0.064	
Guideline ^{1/} (g/s)				-		7.24		0.22	
Method				US EPA Method 10		US EPA Method 7E		US EPA Method 6C	

Sampled By : Anuvat Moungpai

Guideline : ^{1/}Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED

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

^{3/}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

Wichan Choonharat
Manager
ทะเบียนเลขที่ ๖-204-๖-6113

Approved by

Sarayuth Jitranont

Sarayuth Jitranont
Assistant General Manager
ทะเบียนเลขที่ ๖-204-๖-4702

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321524
Date Received : Apr 20, 2023
Date Reported : May 05, 2023
Report Number: 2577983-1

Page 1 of 2

Sample Number 2321524-1
Sampled Date Apr 20, 2023
Sample Description Emission from Stationary Source
Location HRSG 42
Date Analysis Commenced Apr 21, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	756	mmHg	Diameter	3.00	m	Oxygen	13.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.6	%
Type of Process	Combustion		Stack Temperature	118	°C	Gas Velocity	21.1	m/s
Type of Fuel	Natural Gas		Moisture	9.99	%	Flow Rate (Actual O2)	365985	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂ at 13.0 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location	
Air Testing										
Total Suspended Particulate	12:25 PM - 01:01 PM	mg/m3	-	0.5	1.7	0.97	15	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

Guideline (1) Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED.
Guideline (2) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ก-6111

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321524
Date Received : Apr 20, 2023
Date Reported : May 05, 2023
Report Number: 2577983-1

Page 2 of 2

Sample Number 2321524-1
Sampled Date Apr 20, 2023
Sample Description Emission from Stationary Source
Location HRSG 42
Date Analysis Commenced Apr 21, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	756	mmHg	Diameter	3.00	m	Oxygen	13.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.6	%
Type of Process	Combustion		Stack Temperature	118	°C	Gas Velocity	21.1	m/s
Type of Fuel	Natural Gas		Moisture	9.99	%	Flow Rate (Actual O2)	365985	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	12:25 PM - 01:01 PM	g/s	-	-	0.10	1.07	-	Calculated	Bangkok

Guideline :

Guideline (1) Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED.
Guideline (2) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

Sampled By : AnechaTansamai

Remark :

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

Technical Management

Saranya C.
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Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2344412
Date Received : Apr 21, 2023
Date Reported : May 02, 2023
Report Number : 2629678-1

Page 1 of 1

Sample Number 2344412-1
Sample Description Emission from Stationary Source
Location HRSG 61
Sampled Date Apr 19, 2023

Stack Description									
Ambient Temperature	33	°C	Diameter	3.00	m	Oxygen	12.86	%	
Ambient Pressure	756	mmHg	Shape	Circle		Carbon dioxide	4.71	%	
Type of Process	Combustion		Stack Temperature	100	°C	Gas Velocity	20.70	m/s	
Type of Fuel	Natural Gas		Moisture	11.20	%	Flow Rate	371359	Nm3/hr	

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)		Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	11:05 AM - 11:25 AM	12.85	4.73	0.49	0.85	19.53	33.73	0.22	0.38
2	11:26 AM - 11:46 AM	12.86	4.72	0.43	0.75	19.93	34.44	0.24	0.41
3	11:47 AM - 12:07 PM	12.88	4.69	0.40	0.70	20.14	34.90	0.22	0.38
Average (ppm)		12.86	4.71	0.44	0.76	19.87	34.36	0.23	0.39
Guideline ^{1/} (ppm)				-	-	-	54.00	-	1.2
Guideline ^{2/} (ppm)				-	-	-	120	-	20
Guideline ^{3/} (ppm)				-	690	-	-	-	-
Result (mg/Nm ³)				0.51	0.88	37.38	64.64	0.59	1.03
Emission Rate at Actual O ₂ (g/s)				0.052		3.856		0.061	
Guideline ^{1/} (g/s)				-		7.24		0.22	
Method				US EPA Method 10		US EPA Method 7E		US EPA Method 6C	

Sampled By : Anuvat Moungpai

Guideline : ^{1/}Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED

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

^{3/}Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ 7-204-ก-6113

Approved by

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Analysis / Test Report

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3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321525
Date Received : Apr 20, 2023
Date Reported : May 05, 2023
Report Number : 2577982-1

Page 1 of 2

Sample Number 2321525-1
Sampled Date Apr 19, 2023
Sample Description Emission from Stationary Source
Location HRSG 61
Date Analysis Commenced Apr 21, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	756	mmHg	Diameter	3.00	m	Oxygen	12.9	%	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.7	%	
Type of Process	Combustion		Stack Temperature	100	°C	Gas Velocity	20.7	m/s	
Type of Fuel	Natural Gas		Moisture	11.15	%	Flow Rate (Actual O ₂)	371106	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7% O ₂ at 12.9% O ₂		Guideline (1)	Guideline (2)	Method	Testing Location
Total Suspended Particulate	11:05 AM - 11:41 AM	mg/m ³	-	0.5	1.6	0.92	15	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

Guideline (1) Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED.

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

Technical Management

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Approved by

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Senior Manager
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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321525
Date Received : Apr 20, 2023
Date Reported : May 05, 2023
Report Number: 2577982-1

Page 2 of 2

Sample Number 2321525-1
Sampled Date Apr 19, 2023
Sample Description Emission from Stationary Source
Location HRSG 61
Date Analysis Commenced Apr 21, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	756	mmHg	Diameter	3.00	m	Oxygen	12.9	%	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.7	%	
Type of Process	Combustion		Stack Temperature	100	°C	Gas Velocity	20.7	m/s	
Type of Fuel	Natural Gas		Moisture	11.15	%	Flow Rate (Actual O2)	371106	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
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Total Suspended Particulate	11:05 AM - 11:41 AM	g/s	-	-	0.09	1.07	-	Calculated	Bangkok
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Guideline :

Guideline (1) Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED.
Guideline (2) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

Sampled By : AnechaTansamai

Remark :

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

Technical Management

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321548
Date Received : Apr 21, 2023
Date Reported : May 02, 2023
Report Number : 2577989-1

Page 1 of 1

Sample Number 2321548-1
Sample Description Emission from Stationary Source
Location HRSG 62
Sampled Date Apr 19, 2023

Stack Description									
Ambient Temperature	33	°C	Diameter	3.00	m	Oxygen	14.05	%	
Ambient Pressure	756	mmHg	Shape	Circle		Carbon dioxide	4.01	%	
Type of Process	Combustion		Stack Temperature	136	°C	Gas Velocity	20.50	m/s	
Type of Fuel	Natural Gas		Moisture	9.10	%	Flow Rate	343437	Nm3/hr	

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)		Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	01:25 PM - 01:45 PM	14.04	4.01	0.92	1.86	21.35	43.28	0.17	0.35
2	01:46 PM - 02:06 PM	14.05	4.02	0.92	1.87	21.10	42.79	0.18	0.37
3	02:07 PM - 02:27 PM	14.05	4.01	0.90	1.82	22.44	45.56	0.18	0.37
Average (ppm)				0.91	1.85	21.63	43.87	0.18	0.36
Guideline ^{1/} (ppm)				-	-	-	54.00	-	1.2
Guideline ^{2/} (ppm)				-	-	-	120	-	20
Guideline ^{3/} (ppm)				-	690	-	-	-	-
Result (mg/Nm ³)				1.05	2.12	40.69	82.54	0.47	0.95
Emission Rate at Actual O ₂ (g/s)				0.100		3.882		0.045	
Guideline ^{4/} (g/s)				-		7.24		0.22	
Method				US EPA Method 10		US EPA Method 7E		US EPA Method 6C	

Sampled By : Anuvat Mounpai

Guideline : ^{1/} Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED

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

^{3/} 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

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3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321526
Date Received : Apr 20, 2023
Date Reported : May 05, 2023
Report Number: 2577981-1

Page 1 of 2

Sample Number 2321526-1
Sampled Date Apr 19, 2023
Sample Description Emission from Stataionary Source
Location HRSG 62
Date Analysis Commenced Apr 21, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	756	mmHg	Diameter	3.00	m	Oxygen	14.0	%	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.0	%	
Type of Process	Combustion		Stack Temperature	136	°C	Gas Velocity	20.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.12	%	Flow Rate (Actual O2)	342974	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂ at 14.0 % O ₂		Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	01:25 PM - 02:01 PM	mg/m3	-	0.5	<0.5	<0.5	15	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

Guideline (1) Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPAN LIMITED.
Guideline (2) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

Technical Management

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Approved by

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321526
Date Received : Apr 20, 2023
Date Reported : May 05, 2023
Report Number: 2577981-1

Page 2 of 2

Sample Number 2321526-1
Sampled Date Apr 19, 2023
Sample Description Emission from Stataionary Source
Location HRSG 62
Date Analysis Commenced Apr 21, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	756	mmHg	Diameter	3.00	m	Oxygen	14.0	%	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.0	%	
Type of Process	Combustion		Stack Temperature	136	°C	Gas Velocity	20.5	m/s	
Type of Fuel	Natural Gas		Moisture	9.12	%	Flow Rate (Actual O2)	342974	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	01:25 PM - 02:01 PM	g/s	-	-	<0.05	1.07	-	Calculated	Bangkok

Guideline :

Guideline (1) Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPAN LIMITED.
Guideline (2) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

Sampled By : AnechaTansamai

Remark :

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

Technical Management

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ภาคผนวก ค-3

การตรวจสอบความถูกต้องของระบบติดตามตรวจสอบคุณภาพอากาศจาก

ปล่องระบายอากาศแบบต่อเนื่อง ประจำปี พ.ศ. 2566

(CEMs Audit)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321556
Date Received : Apr 21, 2023
Date Reported : May 29, 2023
Report Number : 2577998-1

Page 1 of 2

Sample Number : 2321556-1
Sampled Date : Apr 20, 2023
Sample Description : Emission from Stationary Source
Location : HRSG 41
Parameter : NOx

Relative Accuracy Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	20-Apr-23	10:30	10:50	21.52	20.02	35.38	33.32	-2.06
2	20-Apr-23	10:51	11:11	21.01	19.95	35.09	33.70	-1.39
3	20-Apr-23	11:12	11:32	20.82	21.10	34.46	35.36	0.90
Average						34.98	34.13	-0.85
Relative Accuracy Audit (Compared with RM) (%)								-2.49
Relative Accuracy Audit Criteria ^{1/} (Compared with RM)								± 15%

Reference Method : US EPA Method 7E

Remark: ^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RAA Result is within Criteria

Technical Management

Wichan Choonharat
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Approved by

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Analysis / Test Report

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3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321556
Date Received : Apr 21, 2023
Date Reported : May 29, 2023
Report Number : 2577998-1

Page 2 of 2

Sample Number : 2321556-1
Sampled Date : Apr 20, 2023
Sample Description : Emission from Stationary Source
Location : HRSG 41
Parameter : O2

Relative Accuracy Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	20-Apr-23	10:30	10:50	12.45	12.55	0.10
2	20-Apr-23	10:51	11:11	12.58	12.67	0.09
3	20-Apr-23	11:12	11:32	12.50	12.61	0.10
Average				12.51	12.61	0.10
Relative Accuracy Audit (Compared with RM) (%)						0.79
Relative Accuracy Audit Criteria ^{1/} (Compared with RM)						± 15%

Reference Method : US EPA Method 3A

Remark: ^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RAA Result is within Criteria

Sampled By : Anuvat Mounpair

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ก-6113

Approved by

Sarayuth Jittrantong
Assistant General Manager
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Analysis / Test Report

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3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321557
Date Received : Apr 21, 2023
Date Reported : May 29, 2023
Report Number : 2577997-1

Page 1 of 2

Sample Number 2321557-1
Sampled Date Apr 20, 2023
Sample Description Emission from Stationary Source
Location HRSG 42
Parameter NOx

Relative Accuracy Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	20-Apr-23	12:25	12:45	20.55	19.90	35.17	35.14	-0.04
2	20-Apr-23	12:46	13:06	20.75	21.26	35.21	37.09	1.87
3	20-Apr-23	13:07	13:27	20.82	22.38	35.77	39.65	3.87
Average						35.39	37.29	1.90
Relative Accuracy Audit (Compared with RM) (%)								5.10
Relative Accuracy Audit Criteria ^{1/} (Compared with RM)								± 15%

Reference Method : US EPA Method 7E

Remark: ^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RAA Result is within Criteria

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 204-6113

Approved by

Sarayu Jittrant
Sarayu Jittrant
Assistant General Manager
โทรศัพท์ 204-61702

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321557
Date Received : Apr 21, 2023
Date Reported : May 29, 2023
Report Number : 2577997-1

Page 2 of 2

Sample Number 2321557-1
Sampled Date Apr 20, 2023
Sample Description Emission from Stationary Source
Location HRSG 42
Parameter O2

Relative Accuracy Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	20-Apr-23	12:25	12:45	12.78	13.03	0.25
2	20-Apr-23	12:46	13:06	12.71	12.93	0.22
3	20-Apr-23	13:07	13:27	12.81	13.05	0.25
Average				12.77	13.00	0.24
Relative Accuracy Audit (Compared with RM) (%)						1.83
Relative Accuracy Audit Criteria ^{1/} (Compared with RM)						± 15%

Reference Method : US EPA Method 3A

Remark: ^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RAA Result is within Criteria

Sampled By : Anuvat Mounpair

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 204-6113

Approved by

Sarayu Jittrant
Sarayu Jittrant
Assistant General Manager
โทรศัพท์ 204-61702

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321559
Date Received : Apr 21, 2023
Date Reported : May 29, 2023
Report Number : 2577995-1

Page 1 of 2

Sample Number : 2321559-1
Sampled Date : Apr 19, 2023
Sample Description : Emission from Stationary Source
Location : HRSG 61
Parameter : NOx

Relative Accuracy Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	19-Apr-23	11:05	11:25	19.54	19.53	32.92	33.73	0.81
2	19-Apr-23	11:26	11:46	19.44	19.93	32.80	34.44	1.64
3	19-Apr-23	11:47	12:07	19.47	20.14	32.98	34.90	1.92
Average						32.90	34.36	1.46
Relative Accuracy Audit (Compared with RM) (%)								4.24
Relative Accuracy Audit Criteria ^{1/} (Compared with RM)								± 15%

Reference Method : US EPA Method 7E

Remark: ^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RAA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
โทรศัพท์ 204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 204-61702

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321559
Date Received : Apr 21, 2023
Date Reported : May 29, 2023
Report Number : 2577995-1

Page 2 of 2

Sample Number : 2321559-1
Sampled Date : Apr 19, 2023
Sample Description : Emission from Stationary Source
Location : HRSG 61
Parameter : O2

Relative Accuracy Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	19-Apr-23	11:05	11:25	12.65	12.85	0.20
2	19-Apr-23	11:26	11:46	12.66	12.86	0.19
3	19-Apr-23	11:47	12:07	12.69	12.88	0.19
Average				12.67	12.86	0.19
Relative Accuracy Audit (Compared with RM) (%)						1.51
Relative Accuracy Audit Criteria ^{1/} (Compared with RM)						± 15%

Reference Method : US EPA Method 3A

Remark: ^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RAA Result is within Criteria

Sampled By : Anuvat Mounpair

Technical Management

Wichan Choonharat
Manager
โทรศัพท์ 204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 204-61702

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3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321560
Date Received : Apr 21, 2023
Date Reported : May 29, 2023
Report Number : 2577994-1

Page 1 of 2

Sample Number 2321560-1
Sampled Date Apr 19, 2023
Sample Description Emission from Stationary Source
Location HRSG 62
Parameter NOx

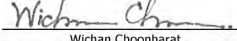
Relative Accuracy Audit Report


Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	19-Apr-23	13:25	13:45	18.44	21.35	37.11	43.28	6.17
2	19-Apr-23	13:46	14:06	18.69	21.10	37.63	42.79	5.16
3	19-Apr-23	14:07	14:27	18.66	22.44	37.57	45.56	7.99
Average						37.44	43.87	6.44
Relative Accuracy Audit (Compared with RM) (%)								14.67
Relative Accuracy Audit Criteria ^{1/} (Compared with RM)								± 15%

Reference Method : US EPA Method 7E

Remark: ^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RAA Result is within Criteria

Technical Management 
Wichan Choonharat
Manager
โทรศัพท์ 2-204-6113

Approved by 
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-64702

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Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321560
Date Received : Apr 21, 2023
Date Reported : May 29, 2023
Report Number : 2577994-1

Page 2 of 2

Sample Number 2321560-1
Sampled Date Apr 19, 2023
Sample Description Emission from Stationary Source
Location HRSG 62
Parameter O2

Relative Accuracy Audit Report

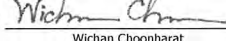
Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	19-Apr-23	13:25	13:45	13.99	14.04	0.05
2	19-Apr-23	13:46	14:06	14.00	14.05	0.05
3	19-Apr-23	14:07	14:27	14.00	14.05	0.06
Average				13.99	14.05	0.05
Relative Accuracy Audit (Compared with RM) (%)						0.37
Relative Accuracy Audit Criteria ^{1/} (Compared with RM)						± 15%


Reference Method : US EPA Method 3A

Remark: ^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RAA Result is within Criteria

Sampled By : Anuvat Moungpair

Technical Management 
Wichan Choonharat
Manager
โทรศัพท์ 2-204-6113

Approved by 
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-64702

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ภาคผนวก ค-4

ผลการตรวจวิเคราะห์คุณภาพน้ำ



Analysis / Test Report

TESTING
No. 0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :

Project Name :

Project Location : GEN

Lot ID: 22154350

Date Received : Jan 03, 2023

Date Reported : Jan 10, 2023

Report Number : 2531907-1

Page 1 of 2

Sample Number	22154350-1
Sampled Date	Jan 03, 2023 1:55 PM
Sample Description	Wastewater
Location	บ่อกักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced	Jan 03, 2023
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	5	47	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	24	≤300	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	23	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	29.6	≤40	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	2020	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

N. Banumit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ 3-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 3-323-จ-9442

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Analysis / Test Report

TESTING
No. 0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, 1-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :

Project Name :

Project Location : GEN

Lot ID: 22154350

Date Received : Jan 03, 2023

Date Reported : Jan 10, 2023

Report Number : 2531907-1

Page 2 of 2

Sample Number	22154350-1
Sampled Date	Jan 03, 2023 1:55 PM
Sample Description	Wastewater
Location	บ่อกักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced	Jan 03, 2023
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	4.8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ 3-323-จ-9461, Panupong Manit ทะเบียนเลขที่ 3-204-จ-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.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banumit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ 3-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 3-323-จ-9442

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 22154350
Date Received : Jan 03, 2023
Date Reported : Jan 10, 2023
Report Number : 2531907-2

Page 1 of 1

Sample Number 22154350-1
Sampled Date Jan 03, 2023 1:55 PM
Sample Description Wastewater
Location ปลัดน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Jan 04, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

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

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ ว-323-ว-9461 , Panupong Manit ทะเบียนเลขที่ ว-204-ว-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.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N.

Savitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-ว-4709

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ว-6111

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 22154350
Date Received : Jan 03, 2023
Date Reported : Jan 10, 2023
Report Number : 2531907-3

Page 1 of 1

Sample Number 22154350-1
Sampled Date Jan 03, 2023 1:55 PM
Sample Description Wastewater
Location ปลัดน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Jan 03, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.16	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Chloride as Cl *	mg/L	0.5	1	980	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate *	m3/s	-	-	0.010	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	6.67	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

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

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

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Approved by

Savitree N.

Savitree Noisangiam
Manager

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location : GEN

TESTING
No.0042
Lot ID: 2313544
Date Received : Feb 06, 2023
Date Reported : Feb 13, 2023
Report Number : 2559747-1

Page 1 of 2

Sample Number 2313544-1
Sample Date Feb 06, 2023 2:00 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Feb 06, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	4.2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	52	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	29	≤300	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	28	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	1	3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	<0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Cl (F)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	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	2280	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

N. Banachit

Narumon Banachonkit
Supervisor
ทะเบียนเลขที่ 3-323-3-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 3-323-3-9442

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location : GEN

TESTING
No.0042
Lot ID: 2313544
Date Received : Feb 06, 2023
Date Reported : Feb 13, 2023
Report Number : 2559747-1

Page 2 of 2

Sample Number 2313544-1
Sample Date Feb 06, 2023 2:00 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Feb 06, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

Sampling By : Wanlop Hunchanaoow ทะเบียนเลขที่ 3-323-3-9457, Thanasoun Namakunna ทะเบียนเลขที่ 3-204-3-8592

Remark :

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

Technical Management

N. Banachit

Narumon Banachonkit
Supervisor
ทะเบียนเลขที่ 3-323-3-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 3-323-3-9442

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Analysis / Test Report

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3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 2313544
Date Received : Feb 06, 2023
Date Reported : Feb 13, 2023
Report Number : 2559747-2

Page 1 of 1

Sample Number 2313544-1
Sampled Date Feb 06, 2023 2:00 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Feb 07, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ๖-323-๖-9457 , Thanasoun Namakunna ทะเบียนเลขที่ ๖-204-๖-8592

Remark :
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Technical Management

Savitree N.

Savitree Noisangiam
Manager
ทะเบียนเลขที่ ๖-204-๖-4709

Approved by

Kanokorn Anek

Kanokorn Anek
Senior Manager
ทะเบียนเลขที่ ๖-204-๖-6111

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Analysis / Test Report

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3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 2313544
Date Received : Feb 06, 2023
Date Reported : Feb 13, 2023
Report Number : 2559747-3

Page 1 of 1

Sample Number 2313544-1
Sampled Date Feb 06, 2023 2:00 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Feb 06, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.14	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Chloride as Cl *	mg/L	0.5	1	521	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate *	m3/s	-	-	0.017	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	5.46	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

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

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Client : GLOW ENERGY PUBLIC COMPANY LIMITED
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P/O :

Project Name :
Project Location : GEN



TESTING
No.0042

Lot ID: 2324343

Date Received : Mar 07, 2023
Date Reported : Mar 14, 2023
Report Number : 2583327-1

Page 1 of 2

Sample Number 2324343-1
Sampled Date Mar 07, 2023 1:56 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Mar 07, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	65	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	45	≤300	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	42	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	0.24	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CI (F)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	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	1860	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-ก-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-9442

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P/O :

Project Name :
Project Location : GEN



TESTING
No.0042

Lot ID: 2324343

Date Received : Mar 07, 2023
Date Reported : Mar 14, 2023
Report Number : 2583327-1

Page 2 of 2

Sample Number 2324343-1
Sampled Date Mar 07, 2023 1:56 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Mar 07, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-ก-9461, Samart Khumphlee ทะเบียนเลขที่ ว-204-ก-7830

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Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-ก-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-9442

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P/O :

Project Name :

Project Location: GEN



TESTING
No.0009

Lot ID: 2324343

Date Received : Mar 07, 2023

Date Reported : Mar 14, 2023

Report Number : 2583327-2

Page 1 of 1

Sample Number 2324343-1
Sampled Date Mar 07, 2023 1:56 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Mar 08, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ ร-323-จ-9461, Samart Khumphlee ทะเบียนเลขที่ ร-204-จ-7830

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Technical Management

Sawitree N.

Sawitree Noisangiam
Manager

ทะเบียนเลขที่ ร-204-จ-4709

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ร-204-ก-6111

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P/O :

Project Name :

Project Location: GEN



TESTING
No.0009

Lot ID: 2324343

Date Received : Mar 07, 2023

Date Reported : Mar 14, 2023

Report Number : 2583327-3

Page 1 of 1

Sample Number 2324343-1
Sampled Date Mar 07, 2023 1:56 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Mar 07, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.06	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Water Testing

Chloride as Cl *	mg/L	0.5	1	538	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate *	m3/s	-	-	0.017	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.07	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

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

Sampling By : Chainusorn Lertnathakunchai , Samart Khumphlee

Remark :

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P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0042
Lot ID: 2328703
Date Received : Apr 03, 2023
Date Reported : Apr 08, 2023
Report Number : 2593337-1

Page 1 of 2

Sample Number 2328703-1
Sampled Date Apr 03, 2023 2:00 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Apr 03, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	36	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	13	≤300	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	0.27	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CI (F)	Rayong
Temperature *	Degree C	-	-	34.7	≤40	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	2140	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

N. Banchoangkit

Narumon Banchoangkit
Supervisor
ทะเบียนเลขที่ 3-323-3-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 3-323-3-9442

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P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0042
Lot ID: 2328703
Date Received : Apr 03, 2023
Date Reported : Apr 08, 2023
Report Number : 2593337-1

Page 2 of 2

Sample Number 2328703-1
Sampled Date Apr 03, 2023 2:00 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Apr 03, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ 3-323-3-9461, Thanasoun Namakunna ทะเบียนเลขที่ 3-204-3-8592

Remark :

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Technical Management

N. Banchoangkit

Narumon Banchoangkit
Supervisor
ทะเบียนเลขที่ 3-323-3-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 3-323-3-9442

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
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P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 2328703
Date Received : Apr 03, 2023
Date Reported : Apr 10, 2023
Report Number : 2593337-2

Page 1 of 1

Sample Number 2328703-1
Sampled Date Apr 03, 2023 2:00 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Apr 04, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

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

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ ๖-323-๖-9461, Thanasoun Namakunna ทะเบียนเลขที่ ๖-204-๖-8592

Remark :
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Technical Management

Sawitree N.

Sawitree Noisangiam
Manager

ทะเบียนเลขที่ ๖-204-๖-4709

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ๖-204-๖-6111

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Analysis / Test Report

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P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 2328703
Date Received : Apr 03, 2023
Date Reported : Apr 10, 2023
Report Number : 2593337-3

Page 1 of 1

Sample Number 2328703-1
Sampled Date Apr 03, 2023 2:00 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Apr 03, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.38	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Chloride as Cl *	mg/L	0.5	1	874	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate *	m3/s	-	-	0.017	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	3.13	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

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

Remark :
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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
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P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0042
Lot ID: 2341759
Date Received : May 02, 2023
Date Reported : May 10, 2023
Report Number : 2623375-1

Page 1 of 2

Sample Number 2341759-1
Sampled Date May 02, 2023 2:10 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced May 02, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	64	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	15	≤300	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	0.28	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CI (F)	Rayong
Temperature *	Degree C	-	-	33.6	≤40	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	1740	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ 7-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 7-323-จ-9442

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Client : GLOW ENERGY PUBLIC COMPANY LIMITED
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P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0042
Lot ID: 2341759
Date Received : May 02, 2023
Date Reported : May 10, 2023
Report Number : 2623375-1

Page 2 of 2

Sample Number 2341759-1
Sampled Date May 02, 2023 2:10 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced May 02, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C.	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainorn Lertnanthakunchai ทะเบียนเลขที่ 7-323-จ-9461, Samart Khumplee ทะเบียนเลขที่ 7-204-จ-7830

Remark :

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Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ 7-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 7-323-จ-9442

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P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 2341759
Date Received : May 02, 2023
Date Reported : May 10, 2023
Report Number : 2623375-2

Page 1 of 1

Sample Number 2341759-1
Sampled Date May 02, 2023 2:10 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced May 03, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

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

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

Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ 7-323-9-9461, Samart Khumphlee ทะเบียนเลขที่ 7-204-9-7830

Remark :

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Technical Management

Savitree N.

Savitree Naisangiam
Manager

ทะเบียนเลขที่ 7-204-9-4709

Approved by

Kanokorn Anek

Kanokorn Anek
Senior Manager

ทะเบียนเลขที่ 7-204-9-6111

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P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 2341759
Date Received : May 02, 2023
Date Reported : May 10, 2023
Report Number : 2623375-3

Page 1 of 1

Sample Number 2341759-1
Sampled Date May 02, 2023 2:10 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced May 02, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.12	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Chloride as Cl *	mg/L	0.5	1	619	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate *	m3/s	-	-	0.028	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	1.28	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

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

Sampling By : Chainusorn Lertnathakunchai , Samart Khumphlee

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Approved by

Savitree N.

Savitree Naisangiam
Manager

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
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P/O : GLOW-OM-22-103,32310221
Project Name :
Project Location : GEN



TESTING
No.0042
Lot ID: 2356680
Date Received : Jun 06, 2023
Date Reported : Jun 13, 2023
Report Number : 2655161-1

Page 1 of 2

Sample Number 2356680-1
Sampled Date Jun 06, 2023 2:14 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Jun 06, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.6	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	60	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	30	≤300	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	28	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	<0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Temperature *	Degree C	-	-	32.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1560	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Technical Management

N. Banchookit

Narumon Banchookit
Supervisor
ทะเบียนเลขที่ ว-323-ก-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-9442

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P/O : GLOW-OM-22-103,32310221
Project Name :
Project Location : GEN



TESTING
No.0042
Lot ID: 2356680
Date Received : Jun 06, 2023
Date Reported : Jun 13, 2023
Report Number : 2655161-1

Page 2 of 2

Sample Number 2356680-1
Sampled Date Jun 06, 2023 2:14 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Jun 06, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.3	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ ว-323-ก-9461 , Samart Khumplee ทะเบียนเลขที่ ว-204-ก-7830

Remark :

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Technical Management

N. Banchookit

Narumon Banchookit
Supervisor
ทะเบียนเลขที่ ว-323-ก-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
ทะเบียนเลขที่ ว-323-ก-9442

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103,32310221
Project Name :
Project Location: GEN



TESTING
No.0009
Lot ID: 2356680
Date Received : Jun 06, 2023
Date Reported : Jun 13, 2023
Report Number : 2655161-2

Page 1 of 1

Sample Number 2356680-1
Sampled Date Jun 06, 2023 2:14 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Jun 07, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ 7-323-9-9461, Samart Khumphlee ทะเบียนเลขที่ 7-204-9-7830

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

Technical Management

Sawitree N.

Sawitree Noisangiam
Manager

ทะเบียนเลขที่ 7-204-9-4709

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ 7-204-9-6111

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103,32310221
Project Name :
Project Location: GEN



TESTING
No.0009
Lot ID: 2356680
Date Received : Jun 06, 2023
Date Reported : Jun 16, 2023
Report Number : 2655161-3

Page 1 of 1

Sample Number 2356680-1
Sampled Date Jun 06, 2023 2:14 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้ง บ่อที่ 1 ขนาด 250 ลูกบาศก์เมตร (W1)
Date Analysis Commenced Jun 06, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.11	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Chloride as Cl *	mg/L	0.5	1	482	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong
Flow rate *	m3/s	-	-	0.042	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	6.66	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

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

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

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103,32310221
Project Name :
Project Location : GEN

TESTING
No.0042
Lot ID: 2356682
Date Received : Jun 06, 2023
Date Reported : Jun 13, 2023
Report Number : 2655168-1

Page 1 of 2

Sample Number 2356682-1
Sampled Date Jun 06, 2023 2:26 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้งบ่อที่ 2 ขนาด 14 ลูกบาศก์เมตร (W2)
Date Analysis Commenced Jun 06, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤300	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	<5	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	1	<1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.1	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	-	-	31.2	≤40	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	112	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	<1.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong

Technical Management

N. Banongkit

Narumon Banhongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103,32310221
Project Name :
Project Location : GEN

TESTING
No.0042
Lot ID: 2356682
Date Received : Jun 06, 2023
Date Reported : Jun 13, 2023
Report Number : 2655168-1

Page 2 of 2

Sample Number 2356682-1
Sampled Date Jun 06, 2023 2:26 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้งบ่อที่ 2 ขนาด 14 ลูกบาศก์เมตร (W2)
Date Analysis Commenced Jun 06, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainosorn Lertnathakunchai ทะเบียนเลขที่ ว-323-จ-9461 , Samart Khumplhee ทะเบียนเลขที่ ว-204-จ-7830

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

N. Banongkit

Narumon Banhongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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

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Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103,32310221
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 2356682
Date Received : Jun 06, 2023
Date Reported : Jun 13, 2023
Report Number : 2655168-2

Page 1 of 1

Sample Number 2356682-1
Sampled Date Jun 06, 2023 2:26 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้งบ่อที่ 2 ขนาด 14 ลูกบาศก์เมตร (W2)
Date Analysis Commenced Jun 07, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ 7-323-9-9461, Samart Khumphlee ทะเบียนเลขที่ 7-204-9-7830

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

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ 7-204-9-4709

Approved by

Kanokorn Anek

Kanokorn Anek
Senior Manager

ทะเบียนเลขที่ 7-204-9-6111

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103,32310221
Project Name :
Project Location : GEN



TESTING
No.0009
Lot ID: 2356682
Date Received : Jun 06, 2023
Date Reported : Jun 13, 2023
Report Number : 2655168-3

Page 1 of 1

Sample Number 2356682-1
Sampled Date Jun 06, 2023 2:26 PM
Sample Description Wastewater
Location บ่อพักน้ำทิ้งบ่อที่ 2 ขนาด 14 ลูกบาศก์เมตร (W2)
Date Analysis Commenced Jun 06, 2023
Condition of Sample Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.07	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Nitrate as N *	mg/L	0.015	0.05	0.69	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

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

Remark :
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ภาคผนวก ค-5

ระดับเสียงทั่วไป



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639723-1

Page 1 of 1

Sample Number 2321499-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณใต้สถานีออกของโครงการ (N1) (GPS 47P 0733053, 1404446)
Measurement Date Apr 18 - Apr 19, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	69.6	72.9	69.2
11:00 AM - 12:00 PM	68.8	78.0	68.3
12:00 PM - 01:00 PM	68.9	79.2	68.3
01:00 PM - 02:00 PM	68.9	80.3	68.4
02:00 PM - 03:00 PM	69.2	79.9	68.5
03:00 PM - 04:00 PM	69.3	74.8	68.7
04:00 PM - 05:00 PM	69.8	74.1	69.3
05:00 PM - 06:00 PM	69.9	74.5	69.2
06:00 PM - 07:00 PM	69.0	78.8	68.5
07:00 PM - 08:00 PM	69.2	77.3	68.6
08:00 PM - 09:00 PM	68.9	74.7	68.5
09:00 PM - 10:00 PM	68.8	70.8	68.3
10:00 PM - 11:00 PM	69.7	73.3	69.3
11:00 PM - 12:00 AM	69.2	80.3	68.4
12:00 AM - 01:00 AM	68.9	85.2	68.2
01:00 AM - 02:00 AM	68.6	80.9	68.0
02:00 AM - 03:00 AM	68.3	76.8	67.8
03:00 AM - 04:00 AM	68.2	74.7	67.4
04:00 AM - 05:00 AM	69.7	81.2	69.1
05:00 AM - 06:00 AM	68.7	78.1	67.9
06:00 AM - 07:00 AM	69.1	79.1	68.2
07:00 AM - 08:00 AM	68.8	78.8	68.0
08:00 AM - 09:00 AM	68.6	81.3	67.9
09:00 AM - 10:00 AM	68.6	78.5	67.9
Leq Average 24 hrs. (dB(A))	69.1		
Lmax (dB(A))		85.2	
L90 (dB(A))			68.3
Ldn (dB(A))	75.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise rpt (1:04PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639724-1

Page 1 of 1

Sample Number 2321499-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณใต้สถานีออกของโครงการ (N1) (GPS 47P 0733053, 1404446)
Measurement Date Apr 19 - Apr 20, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.5	74.8	68.0
11:00 AM - 12:00 PM	69.4	81.3	68.6
12:00 PM - 01:00 PM	68.8	77.8	68.4
01:00 PM - 02:00 PM	69.0	80.4	68.4
02:00 PM - 03:00 PM	69.4	80.4	68.6
03:00 PM - 04:00 PM	69.6	82.6	68.9
04:00 PM - 05:00 PM	69.3	80.2	68.6
05:00 PM - 06:00 PM	69.3	80.2	68.5
06:00 PM - 07:00 PM	69.3	77.4	68.6
07:00 PM - 08:00 PM	69.4	79.4	68.7
08:00 PM - 09:00 PM	69.4	79.4	68.9
09:00 PM - 10:00 PM	69.5	80.0	68.9
10:00 PM - 11:00 PM	69.2	75.2	68.7
11:00 PM - 12:00 AM	69.2	71.6	68.7
12:00 AM - 01:00 AM	69.3	72.8	68.7
01:00 AM - 02:00 AM	69.3	72.3	68.8
02:00 AM - 03:00 AM	69.3	72.4	68.8
03:00 AM - 04:00 AM	69.2	72.5	68.8
04:00 AM - 05:00 AM	69.4	73.7	68.9
05:00 AM - 06:00 AM	69.5	74.1	68.8
06:00 AM - 07:00 AM	69.3	72.9	68.9
07:00 AM - 08:00 AM	69.3	80.8	68.7
08:00 AM - 09:00 AM	69.2	78.7	68.6
09:00 AM - 10:00 AM	69.4	80.3	68.4
Leq Average 24 hrs. (dB(A))	69.3		
Lmax (dB(A))		82.6	
L90 (dB(A))			68.7
Ldn (dB(A))	75.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639725-1

Page 1 of 1

Sample Number : 2321499-3
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณด้านทิศตะวันออกของโครงการ (N1) (GPS 47P 0733053, 1404446)
Measurement Date : Apr 20 - Apr 21, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	69.3	81.5	68.3
11:00 AM - 12:00 PM	69.0	78.9	68.3
12:00 PM - 01:00 PM	68.4	72.3	67.7
01:00 PM - 02:00 PM	68.8	77.6	68.0
02:00 PM - 03:00 PM	69.3	89.0	68.2
03:00 PM - 04:00 PM	69.1	85.3	68.3
04:00 PM - 05:00 PM	68.9	84.5	68.1
05:00 PM - 06:00 PM	68.9	78.0	68.3
06:00 PM - 07:00 PM	68.9	82.3	68.3
07:00 PM - 08:00 PM	68.9	78.2	68.3
08:00 PM - 09:00 PM	68.7	78.5	68.2
09:00 PM - 10:00 PM	68.9	77.0	68.3
10:00 PM - 11:00 PM	68.6	74.4	68.2
11:00 PM - 12:00 AM	68.5	70.5	68.0
12:00 AM - 01:00 AM	68.5	78.5	68.1
01:00 AM - 02:00 AM	68.8	70.8	68.3
02:00 AM - 03:00 AM	68.9	71.3	68.4
03:00 AM - 04:00 AM	68.9	71.3	68.4
04:00 AM - 05:00 AM	68.9	72.3	68.4
05:00 AM - 06:00 AM	68.9	71.2	68.3
06:00 AM - 07:00 AM	68.7	75.0	68.2
07:00 AM - 08:00 AM	68.3	80.0	67.8
08:00 AM - 09:00 AM	68.3	77.6	67.8
09:00 AM - 10:00 AM	68.7	81.8	67.8

Leq Average 24 hrs. (dB(A)) : 68.8
Lmax (dB(A)) : 89.0
L90 (dB(A)) : 68.2
Ldn (dB(A)) : 75.2
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteah
Section Head

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19583-21/ EMAIL

S:\Reports_Air Noise.rpt (1:04PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639726-1

Page 1 of 1

Sample Number : 2321499-4
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณด้านทิศตะวันออกของโครงการ (N1) (GPS 47P 0733053, 1404446)
Measurement Date : Apr 21 - Apr 22, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.9	78.5	67.9
11:00 AM - 12:00 PM	69.1	91.7	68.0
12:00 PM - 01:00 PM	68.3	76.1	67.2
01:00 PM - 02:00 PM	68.2	79.5	67.4
02:00 PM - 03:00 PM	68.2	81.1	67.2
03:00 PM - 04:00 PM	68.4	81.1	67.5
04:00 PM - 05:00 PM	68.5	82.4	67.6
05:00 PM - 06:00 PM	68.3	80.0	67.7
06:00 PM - 07:00 PM	68.3	79.1	67.7
07:00 PM - 08:00 PM	68.2	77.2	67.6
08:00 PM - 09:00 PM	68.1	79.3	67.6
09:00 PM - 10:00 PM	68.3	73.3	67.8
10:00 PM - 11:00 PM	68.3	70.1	67.9
11:00 PM - 12:00 AM	68.4	71.5	68.0
12:00 AM - 01:00 AM	68.3	72.3	67.8
01:00 AM - 02:00 AM	68.3	71.5	67.9
02:00 AM - 03:00 AM	68.5	73.8	68.0
03:00 AM - 04:00 AM	68.4	73.3	67.9
04:00 AM - 05:00 AM	68.4	75.7	67.9
05:00 AM - 06:00 AM	68.5	76.4	68.0
06:00 AM - 07:00 AM	68.6	80.6	68.0
07:00 AM - 08:00 AM	68.4	76.2	67.9
08:00 AM - 09:00 AM	68.5	78.7	67.7
09:00 AM - 10:00 AM	68.4	86.3	67.6

Leq Average 24 hrs. (dB(A)) : 68.4
Lmax (dB(A)) : 91.7
L90 (dB(A)) : 67.8
Ldn (dB(A)) : 74.8
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteah
Section Head

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S:\Reports_Air Noise.rpt (1:04PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639727-1

Page 1 of 1

Sample Number 2321499-5
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันออกของโครงการ (N1) (GPS 47P 0733053, 1404446)
Measurement Date Apr 22 - Apr 23, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.2	79.4	67.5
11:00 AM - 12:00 PM	68.0	78.8	67.2
12:00 PM - 01:00 PM	67.8	74.0	67.2
01:00 PM - 02:00 PM	68.6	87.3	67.6
02:00 PM - 03:00 PM	68.5	90.9	67.7
03:00 PM - 04:00 PM	68.3	78.9	67.5
04:00 PM - 05:00 PM	68.3	79.5	67.5
05:00 PM - 06:00 PM	68.4	81.9	67.8
06:00 PM - 07:00 PM	68.2	77.4	67.7
07:00 PM - 08:00 PM	68.3	78.6	67.7
08:00 PM - 09:00 PM	68.3	79.7	67.8
09:00 PM - 10:00 PM	68.6	79.3	67.9
10:00 PM - 11:00 PM	68.7	74.2	68.1
11:00 PM - 12:00 AM	68.9	74.5	67.9
12:00 AM - 01:00 AM	68.7	75.2	68.2
01:00 AM - 02:00 AM	68.3	70.7	67.9
02:00 AM - 03:00 AM	68.3	75.1	67.8
03:00 AM - 04:00 AM	68.6	75.3	67.9
04:00 AM - 05:00 AM	68.3	72.7	67.8
05:00 AM - 06:00 AM	68.7	74.7	68.0
06:00 AM - 07:00 AM	68.6	78.7	68.2
07:00 AM - 08:00 AM	68.5	76.7	68.0
08:00 AM - 09:00 AM	68.7	79.8	67.9
09:00 AM - 10:00 AM	68.4	84.7	67.7

Leq Average 24 hrs. (dB(A)) 68.4
Lmax (dB(A)) 90.9
L90 (dB(A)) 67.8
Ldn (dB(A)) 74.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:05PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639728-1

Page 1 of 1

Sample Number 2321499-6
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันออกของโครงการ (N1) (GPS 47P 0733053, 1404446)
Measurement Date Apr 23 - Apr 24, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.1	80.4	67.5
11:00 AM - 12:00 PM	67.8	76.3	67.3
12:00 PM - 01:00 PM	67.7	74.2	66.9
01:00 PM - 02:00 PM	68.4	78.5	67.6
02:00 PM - 03:00 PM	68.4	76.0	67.6
03:00 PM - 04:00 PM	69.2	79.5	68.5
04:00 PM - 05:00 PM	68.7	82.3	68.1
05:00 PM - 06:00 PM	68.7	73.6	68.2
06:00 PM - 07:00 PM	68.7	73.0	68.1
07:00 PM - 08:00 PM	68.8	75.5	68.2
08:00 PM - 09:00 PM	68.7	73.5	68.1
09:00 PM - 10:00 PM	68.8	83.7	68.2
10:00 PM - 11:00 PM	68.6	83.4	68.1
11:00 PM - 12:00 AM	68.5	77.8	68.1
12:00 AM - 01:00 AM	68.9	73.1	68.3
01:00 AM - 02:00 AM	68.9	72.7	68.4
02:00 AM - 03:00 AM	69.0	75.0	68.4
03:00 AM - 04:00 AM	68.8	74.1	68.3
04:00 AM - 05:00 AM	68.8	74.1	68.3
05:00 AM - 06:00 AM	68.7	72.3	68.3
06:00 AM - 07:00 AM	68.5	79.2	68.0
07:00 AM - 08:00 AM	68.3	75.6	67.9
08:00 AM - 09:00 AM	69.0	81.4	68.1
09:00 AM - 10:00 AM	69.1	85.5	68.2

Leq Average 24 hrs. (dB(A)) 68.6
Lmax (dB(A)) 85.5
L90 (dB(A)) 68.1
Ldn (dB(A)) 75.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:05PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639729-1

Page 1 of 1

Sample Number : 2321499-7
Parameter : Noise (Leq 24 hrs.)
Location : ริมรั้วด้านทิศตะวันออกโครงการ (N1) (GPS 47P 0733053, 1404446)
Measurement Date : Apr 24 - Apr 25, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.6	88.6	67.5
11:00 AM - 12:00 PM	68.1	78.2	67.3
12:00 PM - 01:00 PM	68.1	75.7	67.3
01:00 PM - 02:00 PM	68.4	77.8	67.6
02:00 PM - 03:00 PM	68.8	78.8	67.9
03:00 PM - 04:00 PM	68.5	78.5	67.7
04:00 PM - 05:00 PM	68.3	81.0	67.6
05:00 PM - 06:00 PM	68.3	78.2	67.6
06:00 PM - 07:00 PM	68.3	78.9	67.7
07:00 PM - 08:00 PM	68.3	80.3	67.8
08:00 PM - 09:00 PM	68.4	78.9	67.8
09:00 PM - 10:00 PM	68.0	77.7	67.5
10:00 PM - 11:00 PM	68.0	71.5	67.4
11:00 PM - 12:00 AM	68.1	76.6	67.5
12:00 AM - 01:00 AM	67.8	71.4	67.4
01:00 AM - 02:00 AM	68.0	71.4	67.5
02:00 AM - 03:00 AM	68.1	78.7	67.6
03:00 AM - 04:00 AM	68.1	73.8	67.5
04:00 AM - 05:00 AM	68.1	72.1	67.6
05:00 AM - 06:00 AM	68.2	73.3	67.7
06:00 AM - 07:00 AM	67.9	78.6	67.4
07:00 AM - 08:00 AM	67.7	78.6	67.1
08:00 AM - 09:00 AM	68.1	79.8	67.1
09:00 AM - 10:00 AM	68.4	77.7	67.9
Leq Average 24 hrs. (dB(A))	68.2		
Lmax (dB(A))		88.6	
L90 (dB(A))			67.5
Ldn (dB(A))	74.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supt S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:05PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639744-1

Page 1 of 1

Sample Number : 2321500-1
Parameter : Noise (Leq 24 hrs.)
Location : ริมรั้วด้านทิศใต้ของโครงการ (N2) (GPS 47P 0732972, 1404236)
Measurement Date : Apr 18 - Apr 19, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	62.5	96.4	60.9
11:00 AM - 12:00 PM	68.1	72.1	67.7
12:00 PM - 01:00 PM	68.1	69.3	67.9
01:00 PM - 02:00 PM	68.3	75.3	68.0
02:00 PM - 03:00 PM	68.2	69.5	67.9
03:00 PM - 04:00 PM	68.2	68.8	68.0
04:00 PM - 05:00 PM	62.4	70.7	61.7
05:00 PM - 06:00 PM	62.2	65.2	61.6
06:00 PM - 07:00 PM	61.8	68.2	61.3
07:00 PM - 08:00 PM	61.9	69.4	61.3
08:00 PM - 09:00 PM	61.8	66.5	61.3
09:00 PM - 10:00 PM	61.7	64.9	61.1
10:00 PM - 11:00 PM	61.6	68.7	61.1
11:00 PM - 12:00 AM	61.5	64.6	61.0
12:00 AM - 01:00 AM	61.6	64.5	61.1
01:00 AM - 02:00 AM	61.5	64.5	61.0
02:00 AM - 03:00 AM	61.6	64.0	61.0
03:00 AM - 04:00 AM	61.6	64.1	61.0
04:00 AM - 05:00 AM	61.8	64.6	60.9
05:00 AM - 06:00 AM	61.9	66.7	61.3
06:00 AM - 07:00 AM	61.9	67.4	61.3
07:00 AM - 08:00 AM	61.9	67.3	61.2
08:00 AM - 09:00 AM	61.7	67.3	61.1
09:00 AM - 10:00 AM	61.7	67.8	61.0
Leq Average 24 hrs. (dB(A))	64.1		
Lmax (dB(A))		96.4	
L90 (dB(A))			61.2
Ldn (dB(A))	68.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supt S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:10PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639745-1

Page 1 of 1

Sample Number : 2321500-2
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณด้านทิศใต้ของโครงการ (N2) (GPS 47P 0732972, 1404236)
Measurement Date : Apr 19 - Apr 20, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.2	74.3	67.6
11:00 AM - 12:00 PM	68.3	76.7	67.6
12:00 PM - 01:00 PM	67.7	74.8	67.4
01:00 PM - 02:00 PM	68.3	71.1	68.0
02:00 PM - 03:00 PM	68.3	71.7	68.0
03:00 PM - 04:00 PM	68.2	69.2	68.0
04:00 PM - 05:00 PM	66.0	74.7	65.1
05:00 PM - 06:00 PM	63.5	70.0	60.9
06:00 PM - 07:00 PM	61.5	64.3	60.9
07:00 PM - 08:00 PM	61.6	66.6	60.9
08:00 PM - 09:00 PM	61.7	65.6	61.0
09:00 PM - 10:00 PM	61.7	68.1	61.1
10:00 PM - 11:00 PM	61.9	61.2	61.2
11:00 PM - 12:00 AM	61.9	66.7	61.2
12:00 AM - 01:00 AM	61.9	64.8	61.1
01:00 AM - 02:00 AM	61.8	64.5	61.2
02:00 AM - 03:00 AM	61.8	65.1	61.2
03:00 AM - 04:00 AM	61.7	64.4	61.2
04:00 AM - 05:00 AM	61.9	64.8	61.3
05:00 AM - 06:00 AM	61.9	64.8	61.3
06:00 AM - 07:00 AM	61.9	72.2	61.3
07:00 AM - 08:00 AM	62.5	68.8	61.3
08:00 AM - 09:00 AM	63.7	86.3	60.8
09:00 AM - 10:00 AM	61.3	79.6	60.6
Leq Average 24 hrs. (dB(A))	64.7		
Lmax (dB(A))		86.3	
L90 (dB(A))			61.2
Ldn (dB(A))	69.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:10PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639746-1

Page 1 of 1

Sample Number : 2321500-3
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณด้านทิศใต้ของโครงการ (N2) (GPS 47P 0732972, 1404236)
Measurement Date : Apr 20 - Apr 21, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	66.3	67.3	66.0
11:00 AM - 12:00 PM	66.2	67.1	65.8
12:00 PM - 01:00 PM	66.4	70.9	65.9
01:00 PM - 02:00 PM	66.1	72.1	65.7
02:00 PM - 03:00 PM	66.9	73.6	66.2
03:00 PM - 04:00 PM	69.0	78.7	66.8
04:00 PM - 05:00 PM	59.4	69.2	58.8
05:00 PM - 06:00 PM	59.4	67.5	58.8
06:00 PM - 07:00 PM	58.8	64.8	58.3
07:00 PM - 08:00 PM	58.6	80.6	58.0
08:00 PM - 09:00 PM	58.3	61.9	57.9
09:00 PM - 10:00 PM	58.4	65.9	58.0
10:00 PM - 11:00 PM	58.6	68.4	58.1
11:00 PM - 12:00 AM	58.5	64.7	58.1
12:00 AM - 01:00 AM	58.5	62.6	58.1
01:00 AM - 02:00 AM	58.6	63.4	58.1
02:00 AM - 03:00 AM	58.6	63.8	58.1
03:00 AM - 04:00 AM	58.6	62.4	58.1
04:00 AM - 05:00 AM	58.5	61.2	58.1
05:00 AM - 06:00 AM	58.6	67.9	58.1
06:00 AM - 07:00 AM	58.6	80.4	58.1
07:00 AM - 08:00 AM	58.7	69.0	58.0
08:00 AM - 09:00 AM	58.5	78.8	57.8
09:00 AM - 10:00 AM	59.2	89.1	58.0
Leq Average 24 hrs. (dB(A))	62.5		
Lmax (dB(A))		89.1	
L90 (dB(A))			58.1
Ldn (dB(A))	66.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:10PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639747-1

Page 1 of 1

Sample Number 2321500-4
Parameter Noise (Leq 24 hrs.)
Location บริเวณด้านทิศใต้ของโครงการ (N2) (GPS 47P 0732972, 1404236)
Measurement Date Apr 21 - Apr 22, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.0	76.9	58.3
11:00 AM - 12:00 PM	58.7	76.4	58.0
12:00 PM - 01:00 PM	58.5	67.8	57.9
01:00 PM - 02:00 PM	58.7	78.6	57.9
02:00 PM - 03:00 PM	58.8	70.3	58.1
03:00 PM - 04:00 PM	58.8	74.3	58.1
04:00 PM - 05:00 PM	58.9	70.1	58.2
05:00 PM - 06:00 PM	58.9	64.7	58.4
06:00 PM - 07:00 PM	58.9	65.8	58.4
07:00 PM - 08:00 PM	58.7	66.0	58.3
08:00 PM - 09:00 PM	58.7	62.0	58.3
09:00 PM - 10:00 PM	58.8	69.4	58.3
10:00 PM - 11:00 PM	58.6	62.7	58.1
11:00 PM - 12:00 AM	58.6	60.6	58.2
12:00 AM - 01:00 AM	58.8	61.1	58.3
01:00 AM - 02:00 AM	58.9	65.0	58.3
02:00 AM - 03:00 AM	59.0	62.8	58.5
03:00 AM - 04:00 AM	58.8	61.6	58.3
04:00 AM - 05:00 AM	58.8	63.2	58.3
05:00 AM - 06:00 AM	58.9	63.3	58.4
06:00 AM - 07:00 AM	59.2	64.0	58.5
07:00 AM - 08:00 AM	58.7	64.5	58.1
08:00 AM - 09:00 AM	58.5	66.5	57.9
09:00 AM - 10:00 AM	58.3	68.7	57.8

Leq Average 24 hrs. (dB(A)) 58.9
Lmax (dB(A)) 78.6
L90 (dB(A)) 58.3
Ldn (dB(A)) 65.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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S:\Reports\Air Noise.rpt (1:10PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639748-1

Page 1 of 1

Sample Number 2321500-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณด้านทิศใต้ของโครงการ (N2) (GPS 47P 0732972, 1404236)
Measurement Date Apr 22 - Apr 23, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.3	77.3	57.6
11:00 AM - 12:00 PM	57.9	64.5	57.4
12:00 PM - 01:00 PM	57.9	69.0	57.4
01:00 PM - 02:00 PM	58.5	77.5	57.8
02:00 PM - 03:00 PM	61.3	69.1	58.1
03:00 PM - 04:00 PM	58.8	70.4	58.1
04:00 PM - 05:00 PM	59.0	65.6	58.4
05:00 PM - 06:00 PM	58.9	65.9	58.3
06:00 PM - 07:00 PM	58.6	65.0	58.1
07:00 PM - 08:00 PM	58.6	74.6	58.1
08:00 PM - 09:00 PM	58.6	64.5	58.1
09:00 PM - 10:00 PM	58.5	64.1	58.0
10:00 PM - 11:00 PM	58.5	64.7	58.0
11:00 PM - 12:00 AM	58.5	65.0	58.1
12:00 AM - 01:00 AM	58.7	65.1	58.1
01:00 AM - 02:00 AM	58.9	65.5	58.3
02:00 AM - 03:00 AM	59.7	67.4	58.5
03:00 AM - 04:00 AM	58.8	64.9	58.0
04:00 AM - 05:00 AM	58.9	62.5	58.4
05:00 AM - 06:00 AM	59.0	64.4	58.5
06:00 AM - 07:00 AM	59.0	63.4	58.4
07:00 AM - 08:00 AM	58.7	67.8	58.0
08:00 AM - 09:00 AM	58.5	66.9	57.9
09:00 AM - 10:00 AM	58.2	63.4	57.7

Leq Average 24 hrs. (dB(A)) 58.8
Lmax (dB(A)) 77.5
L90 (dB(A)) 58.1
Ldn (dB(A)) 65.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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S:\Reports\Air Noise.rpt (1:10PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639749-1

Page 1 of 1

Sample Number 2321500-6
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศใต้ของโครงการ (N2) (GPS 47P 0732972, 1404236)
Measurement Date Apr 23 - Apr 24, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.3	83.1	57.5
11:00 AM - 12:00 PM	57.9	62.9	57.4
12:00 PM - 01:00 PM	58.1	66.8	57.4
01:00 PM - 02:00 PM	63.9	68.7	60.4
02:00 PM - 03:00 PM	58.2	62.5	57.6
03:00 PM - 04:00 PM	58.1	62.9	57.6
04:00 PM - 05:00 PM	58.4	64.0	57.8
05:00 PM - 06:00 PM	58.4	61.8	57.9
06:00 PM - 07:00 PM	58.5	63.1	58.0
07:00 PM - 08:00 PM	58.4	68.9	57.9
08:00 PM - 09:00 PM	58.4	66.4	58.0
09:00 PM - 10:00 PM	58.4	64.9	57.9
10:00 PM - 11:00 PM	58.6	67.0	58.0
11:00 PM - 12:00 AM	58.7	65.1	58.2
12:00 AM - 01:00 AM	58.5	66.7	58.0
01:00 AM - 02:00 AM	58.6	62.6	58.1
02:00 AM - 03:00 AM	58.5	61.8	58.1
03:00 AM - 04:00 AM	58.5	61.8	58.0
04:00 AM - 05:00 AM	58.4	62.4	58.0
05:00 AM - 06:00 AM	58.4	62.0	58.0
06:00 AM - 07:00 AM	58.3	66.1	57.8
07:00 AM - 08:00 AM	58.6	66.9	57.8
08:00 AM - 09:00 AM	58.6	66.3	58.1
09:00 AM - 10:00 AM	65.1	86.6	58.1

Leq Average 24 hrs. (dB(A)) 59.4
Lmax (dB(A)) 86.6
L90 (dB(A)) 58.0
Ldn (dB(A)) 65.1
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:11PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639750-1

Page 1 of 1

Sample Number 2321500-7
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศใต้ของโครงการ (N2) (GPS 47P 0732972, 1404236)
Measurement Date Apr 24 - Apr 25, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.4	77.4	57.7
11:00 AM - 12:00 PM	58.1	77.9	57.5
12:00 PM - 01:00 PM	58.6	80.0	57.8
01:00 PM - 02:00 PM	58.7	77.5	57.9
02:00 PM - 03:00 PM	58.7	69.6	58.0
03:00 PM - 04:00 PM	58.9	69.5	58.2
04:00 PM - 05:00 PM	58.9	64.8	58.3
05:00 PM - 06:00 PM	60.1	66.1	58.5
06:00 PM - 07:00 PM	61.9	64.3	61.4
07:00 PM - 08:00 PM	61.5	64.2	60.9
08:00 PM - 09:00 PM	61.2	67.5	60.7
09:00 PM - 10:00 PM	61.0	63.6	60.5
10:00 PM - 11:00 PM	61.1	68.3	60.6
11:00 PM - 12:00 AM	61.1	65.3	60.6
12:00 AM - 01:00 AM	61.0	63.8	60.4
01:00 AM - 02:00 AM	61.0	62.9	60.4
02:00 AM - 03:00 AM	61.1	63.2	60.5
03:00 AM - 04:00 AM	61.1	66.1	60.6
04:00 AM - 05:00 AM	61.1	65.8	60.6
05:00 AM - 06:00 AM	61.1	72.3	60.3
06:00 AM - 07:00 AM	61.2	67.9	60.6
07:00 AM - 08:00 AM	61.1	82.8	60.4
08:00 AM - 09:00 AM	61.7	67.7	60.8
09:00 AM - 10:00 AM	62.2	67.0	61.6

Leq Average 24 hrs. (dB(A)) 60.6
Lmax (dB(A)) 82.8
L90 (dB(A)) 60.4
Ldn (dB(A)) 67.4
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:11PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O : 32310221

Project Name :

Project Location : GEN

Lot ID: 2321500

Date Received : Apr 26, 2023

Date Reported : May 03, 2023

Report Number: 2639751-1

Page 1 of 1

Sample Number 2321500-8
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกของโครงการ (N3) (GPS 0732887, 1404312)
Measurement Date Apr 18 - Apr 19, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	65.9	77.5	65.2
11:00 AM - 12:00 PM	65.8	76.6	65.1
12:00 PM - 01:00 PM	65.1	76.0	64.7
01:00 PM - 02:00 PM	65.2	73.8	64.8
02:00 PM - 03:00 PM	65.5	75.7	65.0
03:00 PM - 04:00 PM	65.8	81.1	65.2
04:00 PM - 05:00 PM	65.5	71.5	65.1
05:00 PM - 06:00 PM	66.1	68.9	65.6
06:00 PM - 07:00 PM	66.1	71.8	65.7
07:00 PM - 08:00 PM	66.1	69.4	65.8
08:00 PM - 09:00 PM	66.1	67.6	65.8
09:00 PM - 10:00 PM	66.1	67.8	65.8
10:00 PM - 11:00 PM	66.2	68.3	65.8
11:00 PM - 12:00 AM	66.2	69.4	65.9
12:00 AM - 01:00 AM	66.2	67.9	65.7
01:00 AM - 02:00 AM	66.2	69.6	65.8
02:00 AM - 03:00 AM	66.2	67.9	65.7
03:00 AM - 04:00 AM	68.3	78.9	65.8
04:00 AM - 05:00 AM	67.1	78.3	64.1
05:00 AM - 06:00 AM	66.1	75.8	65.4
06:00 AM - 07:00 AM	66.5	87.4	65.4
07:00 AM - 08:00 AM	65.9	71.7	65.3
08:00 AM - 09:00 AM	65.4	72.0	64.7
09:00 AM - 10:00 AM	65.2	76.3	64.7

Leq Average 24 hrs. (dB(A))

66.1

Lmax (dB(A))

87.4

L90 (dB(A))

65.4

Ldn (dB(A))

72.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:11PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O : 32310221

Project Name :

Project Location : GEN

Lot ID: 2321500

Date Received : Apr 26, 2023

Date Reported : May 03, 2023

Report Number: 2639752-1

Page 1 of 1

Sample Number 2321500-9
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกของโครงการ (N3) (GPS 0732887, 1404312)
Measurement Date Apr 19 - Apr 20, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	65.2	77.0	64.5
11:00 AM - 12:00 PM	65.2	81.2	64.4
12:00 PM - 01:00 PM	64.6	82.1	64.0
01:00 PM - 02:00 PM	64.5	77.1	64.1
02:00 PM - 03:00 PM	64.8	73.0	64.5
03:00 PM - 04:00 PM	64.8	71.0	64.1
04:00 PM - 05:00 PM	64.6	72.1	64.1
05:00 PM - 06:00 PM	65.6	77.2	65.0
06:00 PM - 07:00 PM	65.8	71.4	65.0
07:00 PM - 08:00 PM	66.2	68.8	65.8
08:00 PM - 09:00 PM	66.1	67.9	65.7
09:00 PM - 10:00 PM	66.1	69.6	65.7
10:00 PM - 11:00 PM	66.1	68.4	65.7
11:00 PM - 12:00 AM	66.2	68.3	65.8
12:00 AM - 01:00 AM	66.1	69.1	65.5
01:00 AM - 02:00 AM	66.0	67.8	65.5
02:00 AM - 03:00 AM	66.3	75.8	65.8
03:00 AM - 04:00 AM	66.2	68.2	65.8
04:00 AM - 05:00 AM	66.3	68.1	65.8
05:00 AM - 06:00 AM	66.2	69.5	65.6
06:00 AM - 07:00 AM	66.3	76.1	65.7
07:00 AM - 08:00 AM	66.8	75.7	66.0
08:00 AM - 09:00 AM	66.2	84.9	65.5
09:00 AM - 10:00 AM	64.9	73.2	63.8

Leq Average 24 hrs. (dB(A))

65.8

Lmax (dB(A))

84.9

L90 (dB(A))

65.5

Ldn (dB(A))

72.5

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:11PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639753-1

Page 1 of 1

Sample Number : 2321500-10
Parameter : Noise (Leq 24 hrs.)
Location : ริมรั้วด้านทิศตะวันตกของโครงการ (N3) (GPS 0732887, 1404312)
Measurement Date : Apr 20 - Apr 21, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	64.1	71.7	63.6
11:00 AM - 12:00 PM	64.0	74.5	63.5
12:00 PM - 01:00 PM	63.7	70.5	63.3
01:00 PM - 02:00 PM	64.0	74.1	63.5
02:00 PM - 03:00 PM	65.2	84.1	63.4
03:00 PM - 04:00 PM	63.9	77.5	63.3
04:00 PM - 05:00 PM	64.0	77.3	63.3
05:00 PM - 06:00 PM	64.2	70.1	63.9
06:00 PM - 07:00 PM	64.3	74.2	63.8
07:00 PM - 08:00 PM	64.3	69.1	63.8
08:00 PM - 09:00 PM	64.3	68.1	63.7
09:00 PM - 10:00 PM	64.4	73.0	63.8
10:00 PM - 11:00 PM	64.3	70.7	63.7
11:00 PM - 12:00 AM	64.4	71.5	64.0
12:00 AM - 01:00 AM	64.4	71.0	63.9
01:00 AM - 02:00 AM	64.3	69.8	63.8
02:00 AM - 03:00 AM	64.3	69.6	63.7
03:00 AM - 04:00 AM	64.4	68.9	63.9
04:00 AM - 05:00 AM	64.3	67.5	63.7
05:00 AM - 06:00 AM	64.3	74.2	63.6
06:00 AM - 07:00 AM	64.4	70.7	63.7
07:00 AM - 08:00 AM	64.2	72.2	63.4
08:00 AM - 09:00 AM	64.0	78.3	63.1
09:00 AM - 10:00 AM	63.8	79.0	63.0
Leq Average 24 hrs. (dB(A))	64.2		
Lmax (dB(A))		84.1	
L90 (dB(A))			63.7
Ldn (dB(A))	70.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:11PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639754-1

Page 1 of 1

Sample Number : 2321500-11
Parameter : Noise (Leq 24 hrs.)
Location : ริมรั้วด้านทิศตะวันตกของโครงการ (N3) (GPS 0732887, 1404312)
Measurement Date : Apr 21 - Apr 22, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	63.6	74.8	63.0
11:00 AM - 12:00 PM	63.4	74.8	62.8
12:00 PM - 01:00 PM	63.4	72.6	62.7
01:00 PM - 02:00 PM	63.5	72.4	62.9
02:00 PM - 03:00 PM	63.4	71.2	62.9
03:00 PM - 04:00 PM	63.5	72.5	63.0
04:00 PM - 05:00 PM	64.0	82.3	63.1
05:00 PM - 06:00 PM	64.1	75.9	63.6
06:00 PM - 07:00 PM	64.3	75.5	63.5
07:00 PM - 08:00 PM	64.0	72.2	63.7
08:00 PM - 09:00 PM	64.3	70.0	63.7
09:00 PM - 10:00 PM	66.0	74.2	64.4
10:00 PM - 11:00 PM	66.5	74.6	64.4
11:00 PM - 12:00 AM	64.3	68.8	64.0
12:00 AM - 01:00 AM	64.4	68.3	63.9
01:00 AM - 02:00 AM	65.5	73.8	64.1
02:00 AM - 03:00 AM	66.7	73.9	64.3
03:00 AM - 04:00 AM	64.4	68.3	63.7
04:00 AM - 05:00 AM	64.3	69.8	63.9
05:00 AM - 06:00 AM	64.6	72.6	63.7
06:00 AM - 07:00 AM	66.9	78.1	63.9
07:00 AM - 08:00 AM	64.2	70.3	63.6
08:00 AM - 09:00 AM	63.9	71.9	63.3
09:00 AM - 10:00 AM	65.1	74.7	63.3
Leq Average 24 hrs. (dB(A))	64.6		
Lmax (dB(A))		82.3	
L90 (dB(A))			63.6
Ldn (dB(A))	71.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639755-1

Page 1 of 1

Sample Number 2321500-12
Parameter Noise (Leq 24 hrs.)
Location บริเวณด้านทิศตะวันตกของโครงการ (N3) (GPS 0732887, 1404312)
Measurement Date Apr 22 - Apr 23, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	64.4	72.2	63.2
11:00 AM - 12:00 PM	63.4	71.2	62.9
12:00 PM - 01:00 PM	63.3	72.1	62.9
01:00 PM - 02:00 PM	64.4	72.3	63.1
02:00 PM - 03:00 PM	63.8	79.5	63.1
03:00 PM - 04:00 PM	64.8	91.3	63.1
04:00 PM - 05:00 PM	64.0	79.0	63.2
05:00 PM - 06:00 PM	63.7	67.9	63.3
06:00 PM - 07:00 PM	64.1	72.3	63.5
07:00 PM - 08:00 PM	64.4	74.3	64.0
08:00 PM - 09:00 PM	64.9	71.2	63.9
09:00 PM - 10:00 PM	65.0	71.4	64.1
10:00 PM - 11:00 PM	64.8	70.4	64.1
11:00 PM - 12:00 AM	64.4	68.7	64.0
12:00 AM - 01:00 AM	64.4	69.8	64.0
01:00 AM - 02:00 AM	64.7	71.7	63.6
02:00 AM - 03:00 AM	65.5	72.1	64.3
03:00 AM - 04:00 AM	65.5	73.5	64.1
04:00 AM - 05:00 AM	64.5	71.5	64.0
05:00 AM - 06:00 AM	64.3	69.1	63.7
06:00 AM - 07:00 AM	64.4	70.0	63.9
07:00 AM - 08:00 AM	64.3	69.0	63.6
08:00 AM - 09:00 AM	64.1	69.3	63.8
09:00 AM - 10:00 AM	64.0	73.0	63.6

Leq Average 24 hrs. (dB(A)) 64.4
Lmax (dB(A)) 91.3
L90 (dB(A)) 63.6
Ldn (dB(A)) 71.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639756-1

Page 1 of 1

Sample Number 2321500-13
Parameter Noise (Leq 24 hrs.)
Location บริเวณด้านทิศตะวันตกของโครงการ (N3) (GPS 0732887, 1404312)
Measurement Date Apr 23 - Apr 24, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	63.8	68.8	63.4
11:00 AM - 12:00 PM	63.7	69.2	63.3
12:00 PM - 01:00 PM	63.8	80.0	63.2
01:00 PM - 02:00 PM	64.7	72.4	63.7
02:00 PM - 03:00 PM	64.1	68.2	63.6
03:00 PM - 04:00 PM	63.9	71.0	63.5
04:00 PM - 05:00 PM	63.9	72.5	63.5
05:00 PM - 06:00 PM	64.1	70.6	63.7
06:00 PM - 07:00 PM	64.4	73.4	63.9
07:00 PM - 08:00 PM	64.3	68.3	63.9
08:00 PM - 09:00 PM	64.4	72.8	64.0
09:00 PM - 10:00 PM	64.3	69.1	63.9
10:00 PM - 11:00 PM	64.4	68.8	64.0
11:00 PM - 12:00 AM	64.3	68.7	63.9
12:00 AM - 01:00 AM	64.4	72.7	63.9
01:00 AM - 02:00 AM	64.4	68.9	63.9
02:00 AM - 03:00 AM	64.3	68.7	64.0
03:00 AM - 04:00 AM	64.3	69.0	63.9
04:00 AM - 05:00 AM	64.3	69.1	63.9
05:00 AM - 06:00 AM	64.3	68.7	63.9
06:00 AM - 07:00 AM	64.3	69.2	63.9
07:00 AM - 08:00 AM	64.3	70.7	63.7
08:00 AM - 09:00 AM	64.2	72.6	63.4
09:00 AM - 10:00 AM	64.5	79.1	63.1

Leq Average 24 hrs. (dB(A)) 64.2
Lmax (dB(A)) 80.0
L90 (dB(A)) 63.9
Ldn (dB(A)) 70.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:12PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639757-1

Page 1 of 1

Sample Number 2321500-14
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกของโครงการ (N3) (GPS 0732887, 1404312)
Measurement Date Apr 24 - Apr 25, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	64.0	78.2	63.3
11:00 AM - 12:00 PM	64.3	78.9	63.2
12:00 PM - 01:00 PM	63.6	72.2	62.9
01:00 PM - 02:00 PM	63.9	80.8	63.1
02:00 PM - 03:00 PM	63.6	75.0	62.9
03:00 PM - 04:00 PM	63.3	70.8	62.8
04:00 PM - 05:00 PM	63.7	72.3	63.2
05:00 PM - 06:00 PM	63.9	72.7	63.4
06:00 PM - 07:00 PM	64.0	72.5	63.3
07:00 PM - 08:00 PM	64.2	79.7	63.7
08:00 PM - 09:00 PM	64.2	72.1	63.5
09:00 PM - 10:00 PM	64.0	70.6	63.6
10:00 PM - 11:00 PM	64.5	84.3	63.7
11:00 PM - 12:00 AM	64.0	69.6	63.6
12:00 AM - 01:00 AM	64.1	71.3	63.3
01:00 AM - 02:00 AM	64.0	71.8	63.1
02:00 AM - 03:00 AM	64.2	72.2	63.6
03:00 AM - 04:00 AM	64.1	74.0	63.0
04:00 AM - 05:00 AM	64.4	76.5	63.6
05:00 AM - 06:00 AM	64.6	79.1	63.3
06:00 AM - 07:00 AM	64.3	73.5	63.5
07:00 AM - 08:00 AM	64.2	71.5	63.5
08:00 AM - 09:00 AM	66.7	93.7	63.7
09:00 AM - 10:00 AM	64.8	72.8	63.9

Leq Average 24 hrs. (dB(A)) 64.2
Lmax (dB(A)) 93.7
L90 (dB(A)) 63.3
Ldn (dB(A)) 70.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:12PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639758-1

Page 1 of 1

Sample Number 2321500-15
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศเหนือของโครงการ (N4) (GPS 47P 0733026, 1404458)
Measurement Date Apr 18 - Apr 19, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.3	80.8	67.8
11:00 AM - 12:00 PM	68.3	74.9	67.8
12:00 PM - 01:00 PM	68.2	74.9	67.7
01:00 PM - 02:00 PM	68.2	75.6	67.7
02:00 PM - 03:00 PM	68.2	74.6	67.8
03:00 PM - 04:00 PM	68.4	77.4	67.9
04:00 PM - 05:00 PM	68.4	74.8	67.9
05:00 PM - 06:00 PM	69.1	78.4	68.1
06:00 PM - 07:00 PM	69.5	75.6	69.2
07:00 PM - 08:00 PM	68.4	75.5	68.1
08:00 PM - 09:00 PM	68.3	75.4	68.0
09:00 PM - 10:00 PM	69.3	75.1	68.4
10:00 PM - 11:00 PM	69.3	75.0	68.4
11:00 PM - 12:00 AM	68.7	75.0	68.4
12:00 AM - 01:00 AM	68.7	77.7	68.4
01:00 AM - 02:00 AM	68.7	74.9	68.4
02:00 AM - 03:00 AM	68.9	74.6	68.5
03:00 AM - 04:00 AM	68.8	75.5	68.5
04:00 AM - 05:00 AM	70.1	75.5	68.6
05:00 AM - 06:00 AM	68.9	75.0	68.5
06:00 AM - 07:00 AM	68.6	76.4	68.3
07:00 AM - 08:00 AM	68.5	74.9	68.1
08:00 AM - 09:00 AM	68.4	77.0	68.1
09:00 AM - 10:00 AM	68.4	84.4	68.0

Leq Average 24 hrs. (dB(A)) 68.7
Lmax (dB(A)) 84.4
L90 (dB(A)) 68.1
Ldn (dB(A)) 75.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639759-1

Page 1 of 1

Sample Number 2321500-16
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศเหนือของโครงการ (N4) (GPS 47P 0733026, 1404458)
Measurement Date Apr 19 - Apr 20, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.6	82.5	68.0
11:00 AM - 12:00 PM	68.1	74.9	67.8
12:00 PM - 01:00 PM	68.2	75.0	67.9
01:00 PM - 02:00 PM	68.2	74.7	67.9
02:00 PM - 03:00 PM	68.4	75.4	68.0
03:00 PM - 04:00 PM	68.4	74.8	68.0
04:00 PM - 05:00 PM	68.4	74.9	68.0
05:00 PM - 06:00 PM	68.6	74.9	68.1
06:00 PM - 07:00 PM	68.8	75.6	68.2
07:00 PM - 08:00 PM	68.6	75.6	68.0
08:00 PM - 09:00 PM	69.0	75.5	68.2
09:00 PM - 10:00 PM	68.9	77.2	68.4
10:00 PM - 11:00 PM	69.1	75.3	68.5
11:00 PM - 12:00 AM	69.1	76.1	68.5
12:00 AM - 01:00 AM	69.0	75.4	68.5
01:00 AM - 02:00 AM	69.0	76.1	68.5
02:00 AM - 03:00 AM	69.0	76.5	68.4
03:00 AM - 04:00 AM	69.2	75.8	68.6
04:00 AM - 05:00 AM	69.3	76.0	68.6
05:00 AM - 06:00 AM	69.2	75.9	68.7
06:00 AM - 07:00 AM	69.2	75.9	68.4
07:00 AM - 08:00 AM	68.4	75.4	67.9
08:00 AM - 09:00 AM	68.4	75.0	67.7
09:00 AM - 10:00 AM	70.6	76.6	68.0

Leq Average 24 hrs. (dB(A)) 68.9
Lmax (dB(A)) 82.5
L90 (dB(A)) 68.1
Ldn (dB(A)) 75.5
Standard (dB(A)) 70 115
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639760-1

Page 1 of 1

Sample Number 2321500-17
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศเหนือของโครงการ (N4) (GPS 47P 0733026, 1404458)
Measurement Date Apr 20 - Apr 21, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.3	75.3	67.6
11:00 AM - 12:00 PM	68.1	75.4	67.6
12:00 PM - 01:00 PM	68.3	75.0	67.6
01:00 PM - 02:00 PM	68.4	83.3	67.7
02:00 PM - 03:00 PM	68.3	75.6	67.8
03:00 PM - 04:00 PM	68.0	75.0	67.7
04:00 PM - 05:00 PM	68.3	74.9	67.9
05:00 PM - 06:00 PM	68.5	76.2	68.0
06:00 PM - 07:00 PM	68.6	75.3	68.0
07:00 PM - 08:00 PM	68.2	76.0	67.9
08:00 PM - 09:00 PM	68.6	77.6	68.0
09:00 PM - 10:00 PM	69.0	75.4	68.5
10:00 PM - 11:00 PM	69.1	75.1	68.7
11:00 PM - 12:00 AM	68.7	75.0	68.2
12:00 AM - 01:00 AM	68.5	74.9	68.1
01:00 AM - 02:00 AM	68.5	74.3	68.0
02:00 AM - 03:00 AM	68.6	75.0	68.2
03:00 AM - 04:00 AM	68.9	74.8	68.3
04:00 AM - 05:00 AM	68.6	74.9	68.2
05:00 AM - 06:00 AM	69.2	74.9	68.0
06:00 AM - 07:00 AM	68.0	75.0	67.7
07:00 AM - 08:00 AM	67.8	74.6	67.5
08:00 AM - 09:00 AM	67.8	76.7	67.3
09:00 AM - 10:00 AM	68.2	75.8	67.4

Leq Average 24 hrs. (dB(A)) 68.5
Lmax (dB(A)) 83.3
L90 (dB(A)) 67.9
Ldn (dB(A)) 75.0
Standard (dB(A)) 70 115
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639761-1

Page 1 of 1

Sample Number 2321500-18
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศเหนือของโครงการ (N4) (GPS 47P 0733026, 1404458)
Measurement Date Apr 21 - Apr 22, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.8	75.5	67.4
11:00 AM - 12:00 PM	68.7	75.0	67.9
12:00 PM - 01:00 PM	69.1	78.7	67.9
01:00 PM - 02:00 PM	68.7	83.6	67.7
02:00 PM - 03:00 PM	68.3	78.6	67.8
03:00 PM - 04:00 PM	68.3	81.8	67.7
04:00 PM - 05:00 PM	68.4	75.5	67.8
05:00 PM - 06:00 PM	68.6	74.9	68.1
06:00 PM - 07:00 PM	68.3	75.2	67.8
07:00 PM - 08:00 PM	68.6	78.0	68.1
08:00 PM - 09:00 PM	68.9	74.8	68.3
09:00 PM - 10:00 PM	68.9	75.1	68.4
10:00 PM - 11:00 PM	68.7	74.6	68.2
11:00 PM - 12:00 AM	69.0	74.9	68.4
12:00 AM - 01:00 AM	68.8	74.8	68.3
01:00 AM - 02:00 AM	69.0	75.1	68.4
02:00 AM - 03:00 AM	69.2	75.6	68.3
03:00 AM - 04:00 AM	68.7	75.5	68.1
04:00 AM - 05:00 AM	69.4	82.9	68.3
05:00 AM - 06:00 AM	69.0	75.7	68.3
06:00 AM - 07:00 AM	68.9	75.4	68.2
07:00 AM - 08:00 AM	68.5	75.1	68.0
08:00 AM - 09:00 AM	68.6	75.5	67.8
09:00 AM - 10:00 AM	68.4	76.1	67.8
Leq Average 24 hrs. (dB(A))	68.8		
Lmax (dB(A))		83.6	
L90 (dB(A))			68.1
Ldn (dB(A))	75.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639762-1

Page 1 of 1

Sample Number 2321500-19
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศเหนือของโครงการ (N4) (GPS 47P 0733026, 1404458)
Measurement Date Apr 22 - Apr 23, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.2	74.8	67.7
11:00 AM - 12:00 PM	68.5	74.8	67.7
12:00 PM - 01:00 PM	68.7	75.8	68.4
01:00 PM - 02:00 PM	68.6	75.7	68.3
02:00 PM - 03:00 PM	69.6	75.4	68.7
03:00 PM - 04:00 PM	68.7	75.4	68.2
04:00 PM - 05:00 PM	68.7	75.4	67.9
05:00 PM - 06:00 PM	67.9	74.9	67.4
06:00 PM - 07:00 PM	67.9	74.5	67.2
07:00 PM - 08:00 PM	68.5	74.8	68.0
08:00 PM - 09:00 PM	68.3	74.7	67.9
09:00 PM - 10:00 PM	68.3	74.1	67.8
10:00 PM - 11:00 PM	68.4	74.8	68.0
11:00 PM - 12:00 AM	68.6	82.1	68.0
12:00 AM - 01:00 AM	68.7	75.8	68.1
01:00 AM - 02:00 AM	68.9	75.2	68.4
02:00 AM - 03:00 AM	68.6	75.5	68.1
03:00 AM - 04:00 AM	68.8	75.5	68.1
04:00 AM - 05:00 AM	68.9	83.8	68.2
05:00 AM - 06:00 AM	68.8	76.1	68.3
06:00 AM - 07:00 AM	68.7	75.8	68.4
07:00 AM - 08:00 AM	69.7	75.5	68.8
08:00 AM - 09:00 AM	69.7	75.4	68.8
09:00 AM - 10:00 AM	69.1	75.4	68.8
Leq Average 24 hrs. (dB(A))	68.7		
Lmax (dB(A))		83.8	
L90 (dB(A))			68.1
Ldn (dB(A))	75.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:13PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639763-1

Page 1 of 1

Sample Number 2321500-20
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศเหนือของโครงการ (N4) (GPS 47P 0733026, 1404458)
Measurement Date Apr 23 - Apr 24, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.5	74.4	67.9
11:00 AM - 12:00 PM	68.2	74.5	67.8
12:00 PM - 01:00 PM	68.8	74.5	67.6
01:00 PM - 02:00 PM	67.6	74.6	67.3
02:00 PM - 03:00 PM	68.7	76.0	68.2
03:00 PM - 04:00 PM	68.9	75.6	68.2
04:00 PM - 05:00 PM	69.0	83.9	68.3
05:00 PM - 06:00 PM	68.9	76.2	68.4
06:00 PM - 07:00 PM	68.2	74.8	67.5
07:00 PM - 08:00 PM	68.8	75.1	68.3
08:00 PM - 09:00 PM	68.6	75.0	68.2
09:00 PM - 10:00 PM	68.6	74.4	68.1
10:00 PM - 11:00 PM	68.4	75.2	68.1
11:00 PM - 12:00 AM	68.4	77.3	67.9
12:00 AM - 01:00 AM	68.8	76.4	68.0
01:00 AM - 02:00 AM	69.4	76.1	68.0
02:00 AM - 03:00 AM	69.2	74.9	68.3
03:00 AM - 04:00 AM	68.6	74.9	68.3
04:00 AM - 05:00 AM	68.0	73.9	67.4
05:00 AM - 06:00 AM	67.7	74.0	67.3
06:00 AM - 07:00 AM	68.5	75.8	68.0
07:00 AM - 08:00 AM	68.7	75.4	68.0
08:00 AM - 09:00 AM	68.8	83.7	68.1
09:00 AM - 10:00 AM	68.7	76.0	68.2

Leq Average 24 hrs. (dB(A)) 68.6
Lmax (dB(A)) 83.9
L90 (dB(A)) 68.0
Ldn (dB(A)) 75.0
Standard (dB(A)) 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:13PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : 32310221
Project Name :
Project Location : GEN

Lot ID: 2321500
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639764-1

Page 1 of 1

Sample Number 2321500-21
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศเหนือของโครงการ (N4) (GPS 47P 0733026, 1404458)
Measurement Date Apr 24 - Apr 25, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.4	75.4	68.1
11:00 AM - 12:00 PM	68.3	75.1	68.0
12:00 PM - 01:00 PM	68.3	74.8	68.0
01:00 PM - 02:00 PM	68.5	75.5	68.1
02:00 PM - 03:00 PM	68.5	74.9	68.1
03:00 PM - 04:00 PM	68.5	75.0	68.1
04:00 PM - 05:00 PM	68.6	78.9	68.1
05:00 PM - 06:00 PM	68.6	82.1	68.0
06:00 PM - 07:00 PM	68.7	75.8	68.1
07:00 PM - 08:00 PM	68.9	75.2	68.4
08:00 PM - 09:00 PM	68.5	75.5	68.2
09:00 PM - 10:00 PM	68.8	75.4	68.4
10:00 PM - 11:00 PM	69.0	76.7	68.5
11:00 PM - 12:00 AM	69.1	75.8	68.5
12:00 AM - 01:00 AM	69.1	74.9	68.2
01:00 AM - 02:00 AM	68.2	74.9	67.7
02:00 AM - 03:00 AM	68.2	74.9	67.4
03:00 AM - 04:00 AM	67.4	74.4	66.9
04:00 AM - 05:00 AM	68.4	74.7	68.1
05:00 AM - 06:00 AM	68.4	77.4	68.1
06:00 AM - 07:00 AM	68.4	74.6	68.1
07:00 AM - 08:00 AM	68.6	74.3	68.2
08:00 AM - 09:00 AM	69.0	78.0	68.7
09:00 AM - 10:00 AM	69.0	75.2	68.7

Leq Average 24 hrs. (dB(A)) 68.6
Lmax (dB(A)) 82.1
L90 (dB(A)) 68.1
Ldn (dB(A)) 74.9
Standard (dB(A)) 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:15PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639730-1

Page 1 of 1

Sample Number : 2321499-8
Parameter : Noise (Leq 24 hrs.)
Location : ศูนย์ข่าววิทยาศาสตร์และเวชศาสตร์สิ่งแวดล้อม (N5) (GPS 47P 0732020, 1408176)
Measurement Date : Apr 18 - Apr 19, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 233184

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.6	80.7	47.7
12:00 PM - 01:00 PM	52.1	75.9	47.2
01:00 PM - 02:00 PM	52.5	81.5	47.7
02:00 PM - 03:00 PM	51.8	75.9	48.4
03:00 PM - 04:00 PM	53.5	86.0	47.4
04:00 PM - 05:00 PM	52.1	77.8	47.8
05:00 PM - 06:00 PM	59.1	90.8	48.1
06:00 PM - 07:00 PM	54.3	78.3	48.3
07:00 PM - 08:00 PM	60.1	97.0	48.1
08:00 PM - 09:00 PM	51.2	79.1	47.6
09:00 PM - 10:00 PM	49.6	74.0	47.2
10:00 PM - 11:00 PM	53.3	85.0	47.6
11:00 PM - 12:00 AM	49.3	74.5	47.3
12:00 AM - 01:00 AM	49.2	73.9	47.2
01:00 AM - 02:00 AM	48.4	70.2	46.8
02:00 AM - 03:00 AM	47.9	56.9	46.9
03:00 AM - 04:00 AM	48.0	63.9	46.7
04:00 AM - 05:00 AM	47.1	61.5	46.1
05:00 AM - 06:00 AM	50.6	76.3	46.3
06:00 AM - 07:00 AM	49.7	70.6	47.0
07:00 AM - 08:00 AM	53.0	74.5	47.6
08:00 AM - 09:00 AM	56.3	79.3	47.2
09:00 AM - 10:00 AM	56.1	78.1	46.7
10:00 AM - 11:00 AM	57.0	84.2	47.0

Leq Average 24 hrs. (dB(A)) : 53.8
Lmax (dB(A)) : 97.0
L90 (dB(A)) : 47.2
Ldn (dB(A)) : 57.4
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports\Air Noise.rpt (1:05PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639731-1

Page 1 of 1

Sample Number : 2321499-9
Parameter : Noise (Leq 24 hrs.)
Location : ศูนย์ข่าววิทยาศาสตร์และเวชศาสตร์สิ่งแวดล้อม (N5) (GPS 47P 0732020, 1408176)
Measurement Date : Apr 19 - Apr 20, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 233184

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.0	90.9	48.0
12:00 PM - 01:00 PM	60.2	86.6	47.8
01:00 PM - 02:00 PM	53.6	76.5	47.1
02:00 PM - 03:00 PM	52.4	83.4	47.4
03:00 PM - 04:00 PM	51.9	76.1	46.9
04:00 PM - 05:00 PM	52.2	78.3	48.0
05:00 PM - 06:00 PM	53.2	75.9	48.7
06:00 PM - 07:00 PM	53.1	79.7	49.1
07:00 PM - 08:00 PM	51.8	74.7	48.8
08:00 PM - 09:00 PM	51.6	79.3	48.2
09:00 PM - 10:00 PM	55.6	88.6	47.9
10:00 PM - 11:00 PM	49.3	68.7	47.5
11:00 PM - 12:00 AM	49.1	76.0	47.5
12:00 AM - 01:00 AM	49.1	77.1	47.1
01:00 AM - 02:00 AM	49.0	67.5	47.3
02:00 AM - 03:00 AM	47.7	56.6	46.6
03:00 AM - 04:00 AM	47.6	64.3	46.3
04:00 AM - 05:00 AM	48.3	79.4	46.0
05:00 AM - 06:00 AM	49.4	71.1	45.4
06:00 AM - 07:00 AM	50.3	72.6	45.2
07:00 AM - 08:00 AM	53.2	77.6	46.5
08:00 AM - 09:00 AM	61.6	87.0	47.9
09:00 AM - 10:00 AM	59.5	86.9	50.8
10:00 AM - 11:00 AM	58.2	81.6	48.5

Leq Average 24 hrs. (dB(A)) : 54.9
Lmax (dB(A)) : 90.9
L90 (dB(A)) : 47.5
Ldn (dB(A)) : 57.6
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports\Air Noise.rpt (1:05PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639732-1

Page 1 of 1

Sample Number 2321499-10
Parameter Noise (Leq 24 hrs.)
Location ศูนย์อำนวยการและเวชศาสตร์สิ่งแวดล้อม (NS) (GPS 47P 0732020, 1408176)
Measurement Date Apr 20 - Apr 21, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 233184

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.4	90.0	46.2
12:00 PM - 01:00 PM	55.8	83.0	46.7
01:00 PM - 02:00 PM	53.0	76.3	47.0
02:00 PM - 03:00 PM	51.1	80.2	47.2
03:00 PM - 04:00 PM	51.6	75.4	46.7
04:00 PM - 05:00 PM	52.0	81.0	47.2
05:00 PM - 06:00 PM	51.3	75.4	47.9
06:00 PM - 07:00 PM	51.7	77.4	48.3
07:00 PM - 08:00 PM	54.6	85.7	48.8
08:00 PM - 09:00 PM	52.5	82.8	48.2
09:00 PM - 10:00 PM	52.1	81.5	47.8
10:00 PM - 11:00 PM	49.4	71.3	47.8
11:00 PM - 12:00 AM	49.5	78.2	47.3
12:00 AM - 01:00 AM	48.6	62.4	47.3
01:00 AM - 02:00 AM	47.4	59.8	46.1
02:00 AM - 03:00 AM	47.1	76.2	45.4
03:00 AM - 04:00 AM	45.6	57.4	44.4
04:00 AM - 05:00 AM	45.3	61.7	43.7
05:00 AM - 06:00 AM	50.0	74.8	43.6
06:00 AM - 07:00 AM	53.6	77.5	45.2
07:00 AM - 08:00 AM	50.0	71.2	45.9
08:00 AM - 09:00 AM	58.9	85.8	45.8
09:00 AM - 10:00 AM	58.0	84.3	44.7
10:00 AM - 11:00 AM	61.2	80.0	46.7

Leq Average 24 hrs. (dB(A)) 54.1
Lmax (dB(A)) 90.0
L90 (dB(A)) 46.7
Ldn (dB(A)) 57.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:05PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639733-1

Page 1 of 1

Sample Number 2321499-11
Parameter Noise (Leq 24 hrs.)
Location ศูนย์อำนวยการและเวชศาสตร์สิ่งแวดล้อม (NS) (GPS 47P 0732020, 1408176)
Measurement Date Apr 21 - Apr 22, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 233184

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.7	77.3	47.4
12:00 PM - 01:00 PM	52.9	78.2	46.4
01:00 PM - 02:00 PM	52.5	77.0	46.9
02:00 PM - 03:00 PM	54.3	86.2	46.9
03:00 PM - 04:00 PM	51.3	78.8	46.9
04:00 PM - 05:00 PM	53.0	75.7	47.1
05:00 PM - 06:00 PM	53.6	84.5	48.0
06:00 PM - 07:00 PM	51.8	80.1	48.7
07:00 PM - 08:00 PM	50.8	78.3	48.4
08:00 PM - 09:00 PM	51.5	78.1	48.4
09:00 PM - 10:00 PM	51.0	74.1	48.7
10:00 PM - 11:00 PM	50.3	74.4	48.0
11:00 PM - 12:00 AM	50.4	77.6	47.7
12:00 AM - 01:00 AM	48.9	62.4	47.3
01:00 AM - 02:00 AM	53.9	87.0	47.1
02:00 AM - 03:00 AM	48.0	59.0	46.8
03:00 AM - 04:00 AM	47.4	57.5	46.4
04:00 AM - 05:00 AM	46.9	66.4	45.8
05:00 AM - 06:00 AM	49.3	67.4	46.8
06:00 AM - 07:00 AM	49.7	69.9	47.3
07:00 AM - 08:00 AM	50.0	76.4	47.0
08:00 AM - 09:00 AM	50.9	70.9	47.7
09:00 AM - 10:00 AM	50.1	70.8	47.3
10:00 AM - 11:00 AM	49.6	76.1	47.0

Leq Average 24 hrs. (dB(A)) 52.0
Lmax (dB(A)) 87.0
L90 (dB(A)) 47.1
Ldn (dB(A)) 56.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports_Air Noise.rpt (1:06PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639734-1

Page 1 of 1

Sample Number 2321499-12
Parameter Noise (Leq 24 hrs.)
Location ศูนย์อำนวยการบริหารและเขตอุตสาหกรรม (NS) (GPS 47P 0732020, 1408176)
Measurement Date Apr 22 - Apr 23, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 233184

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.2	79.1	47.4
12:00 PM - 01:00 PM	52.6	76.0	47.2
01:00 PM - 02:00 PM	50.9	77.5	47.6
02:00 PM - 03:00 PM	54.9	82.8	48.1
03:00 PM - 04:00 PM	52.5	89.5	47.4
04:00 PM - 05:00 PM	51.1	82.5	47.1
05:00 PM - 06:00 PM	54.6	82.5	48.0
06:00 PM - 07:00 PM	56.2	78.1	48.5
07:00 PM - 08:00 PM	55.7	78.0	48.2
08:00 PM - 09:00 PM	54.0	85.3	47.9
09:00 PM - 10:00 PM	53.0	85.9	48.2
10:00 PM - 11:00 PM	49.3	76.1	47.1
11:00 PM - 12:00 AM	48.6	68.0	47.0
12:00 AM - 01:00 AM	48.4	63.2	46.8
01:00 AM - 02:00 AM	48.4	75.2	46.8
02:00 AM - 03:00 AM	48.0	57.6	46.8
03:00 AM - 04:00 AM	48.2	66.1	46.7
04:00 AM - 05:00 AM	47.9	68.5	46.6
05:00 AM - 06:00 AM	49.2	74.3	45.9
06:00 AM - 07:00 AM	49.8	72.0	46.8
07:00 AM - 08:00 AM	50.7	83.1	47.4
08:00 AM - 09:00 AM	51.4	81.1	47.2
09:00 AM - 10:00 AM	50.0	71.4	47.5
10:00 AM - 11:00 AM	51.6	73.5	47.3

Leq Average 24 hrs. (dB(A)) 51.9
Lmax (dB(A)) 89.5
L90 (dB(A)) 47.2
Ldn (dB(A)) 56.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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S:\Reports\Air Noise.rpt (1:06PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639735-1

Page 1 of 1

Sample Number 2321499-13
Parameter Noise (Leq 24 hrs.)
Location ศูนย์อำนวยการบริหารและเขตอุตสาหกรรม (NS) (GPS 47P 0732020, 1408176)
Measurement Date Apr 23 - Apr 24, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 233184

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.0	74.7	47.3
12:00 PM - 01:00 PM	51.1	80.4	47.7
01:00 PM - 02:00 PM	51.3	75.3	47.9
02:00 PM - 03:00 PM	50.5	76.0	47.8
03:00 PM - 04:00 PM	49.9	76.5	47.8
04:00 PM - 05:00 PM	51.0	75.8	47.3
05:00 PM - 06:00 PM	51.2	71.2	47.9
06:00 PM - 07:00 PM	51.8	77.9	48.2
07:00 PM - 08:00 PM	52.7	82.8	47.9
08:00 PM - 09:00 PM	51.0	73.9	47.2
09:00 PM - 10:00 PM	50.9	75.4	46.9
10:00 PM - 11:00 PM	52.9	84.7	47.1
11:00 PM - 12:00 AM	47.5	68.4	45.9
12:00 AM - 01:00 AM	47.3	71.8	45.6
01:00 AM - 02:00 AM	45.8	63.1	43.9
02:00 AM - 03:00 AM	45.0	59.3	43.7
03:00 AM - 04:00 AM	46.4	67.1	44.7
04:00 AM - 05:00 AM	47.8	81.5	42.5
05:00 AM - 06:00 AM	48.7	82.6	43.4
06:00 AM - 07:00 AM	52.3	80.8	44.4
07:00 AM - 08:00 AM	52.7	78.1	45.7
08:00 AM - 09:00 AM	56.7	81.4	45.7
09:00 AM - 10:00 AM	60.5	79.9	45.4
10:00 AM - 11:00 AM	56.3	78.8	46.1

Leq Average 24 hrs. (dB(A)) 52.6
Lmax (dB(A)) 84.7
L90 (dB(A)) 46.1
Ldn (dB(A)) 56.6
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639736-1

Page 1 of 1

Sample Number 2321499-14
Parameter Noise (Leq 24 hrs.)
Location ศูนย์วิจัยวิทยาศาสตร์และเทคโนโลยี (NS) (GPS 47P 0732020, 1408176)
Measurement Date Apr 24 - Apr 25, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 233184

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.8	75.8	45.6
12:00 PM - 01:00 PM	53.3	81.9	46.0
01:00 PM - 02:00 PM	50.8	76.4	45.2
02:00 PM - 03:00 PM	52.1	77.8	45.6
03:00 PM - 04:00 PM	52.5	76.2	46.1
04:00 PM - 05:00 PM	52.0	74.3	45.4
05:00 PM - 06:00 PM	49.3	78.2	43.1
06:00 PM - 07:00 PM	50.6	73.8	45.6
07:00 PM - 08:00 PM	49.6	76.1	46.3
08:00 PM - 09:00 PM	53.0	83.5	45.9
09:00 PM - 10:00 PM	49.4	70.0	46.8
10:00 PM - 11:00 PM	50.4	73.3	48.5
11:00 PM - 12:00 AM	51.3	77.0	49.1
12:00 AM - 01:00 AM	54.5	87.7	48.7
01:00 AM - 02:00 AM	49.4	63.9	48.0
02:00 AM - 03:00 AM	47.7	55.1	46.2
03:00 AM - 04:00 AM	49.3	59.7	48.1
04:00 AM - 05:00 AM	49.0	70.4	47.3
05:00 AM - 06:00 AM	52.1	70.4	49.8
06:00 AM - 07:00 AM	52.7	74.1	49.8
07:00 AM - 08:00 AM	52.1	78.7	49.0
08:00 AM - 09:00 AM	51.6	74.7	49.3
09:00 AM - 10:00 AM	50.9	75.0	48.6
10:00 AM - 11:00 AM	51.0	78.2	48.3

Leq Average 24 hrs. (dB(A)) 51.5
Lmax (dB(A)) 87.7
L90 (dB(A)) 46.8
Ldn (dB(A)) 57.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639737-1

Page 1 of 1

Sample Number 2321499-15
Parameter Noise (Leq 24 hrs.)
Location ถนนลาดกระบัง-ลำน้ำประโด (N6) (GPS 47P 0736063, 1402067)
Measurement Date Apr 18 - Apr 19, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	45.4	70.5	38.9
01:00 PM - 02:00 PM	47.7	69.9	39.4
02:00 PM - 03:00 PM	43.7	57.9	39.8
03:00 PM - 04:00 PM	46.9	79.0	39.0
04:00 PM - 05:00 PM	55.9	87.4	38.4
05:00 PM - 06:00 PM	64.5	74.0	38.0
06:00 PM - 07:00 PM	41.2	58.6	38.4
07:00 PM - 08:00 PM	41.3	58.0	38.5
08:00 PM - 09:00 PM	42.7	61.9	39.1
09:00 PM - 10:00 PM	42.7	53.0	40.0
10:00 PM - 11:00 PM	40.4	57.1	37.6
11:00 PM - 12:00 AM	40.0	54.9	38.0
12:00 AM - 01:00 AM	39.4	59.6	37.3
01:00 AM - 02:00 AM	40.0	59.7	37.4
02:00 AM - 03:00 AM	43.9	68.6	37.4
03:00 AM - 04:00 AM	43.9	69.0	37.1
04:00 AM - 05:00 AM	61.6	76.8	39.1
05:00 AM - 06:00 AM	46.7	69.1	39.2
06:00 AM - 07:00 AM	48.8	74.3	38.9
07:00 AM - 08:00 AM	45.9	69.8	38.2
08:00 AM - 09:00 AM	47.7	72.6	41.1
09:00 AM - 10:00 AM	47.2	69.9	41.5
10:00 AM - 11:00 AM	47.0	61.9	42.1
11:00 AM - 12:00 PM	46.0	62.4	41.7

Leq Average 24 hrs. (dB(A)) 53.5
Lmax (dB(A)) 87.4
L90 (dB(A)) 38.9
Ldn (dB(A)) 59.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0042

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639738-1

Page 1 of 1

Sample Number : 2321499-16
Parameter : Noise (Leq 24 hrs.)
Location : ชุมชนตากวน-ลำปำประตู่ (N6) (GPS 47P 0736063, 1402067)
Measurement Date : Apr 19 - Apr 20, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	46.6	64.7	41.9
01:00 PM - 02:00 PM	45.1	70.7	40.8
02:00 PM - 03:00 PM	44.1	62.9	39.1
03:00 PM - 04:00 PM	63.4	106.0	39.4
04:00 PM - 05:00 PM	50.7	83.2	38.1
05:00 PM - 06:00 PM	62.5	73.2	38.0
06:00 PM - 07:00 PM	43.4	61.7	39.1
07:00 PM - 08:00 PM	41.6	62.7	38.6
08:00 PM - 09:00 PM	42.2	53.4	39.1
09:00 PM - 10:00 PM	42.7	60.9	40.0
10:00 PM - 11:00 PM	44.3	60.6	41.0
11:00 PM - 12:00 AM	44.9	53.7	42.0
12:00 AM - 01:00 AM	43.2	58.2	39.9
01:00 AM - 02:00 AM	41.4	59.2	38.2
02:00 AM - 03:00 AM	44.5	71.9	37.8
03:00 AM - 04:00 AM	43.7	69.8	37.7
04:00 AM - 05:00 AM	63.3	75.3	38.9
05:00 AM - 06:00 AM	44.0	58.4	39.2
06:00 AM - 07:00 AM	45.2	63.8	39.1
07:00 AM - 08:00 AM	44.1	66.2	38.3
08:00 AM - 09:00 AM	47.7	71.5	39.9
09:00 AM - 10:00 AM	47.0	67.8	41.4
10:00 AM - 11:00 AM	49.1	71.2	40.8
11:00 AM - 12:00 PM	47.7	66.0	43.9
Leq Average 24 hrs. (dB(A))	54.6		
Lmax (dB(A))		106.0	
L90 (dB(A))			39.1
Ldn (dB(A))	60.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN



TESTING
No.0042

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639739-1

Page 1 of 1

Sample Number : 2321499-17
Parameter : Noise (Leq 24 hrs.)
Location : ชุมชนตากวน-ลำปำประตู่ (N6) (GPS 47P 0736063, 1402067)
Measurement Date : Apr 20 - Apr 21, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	47.6	69.1	41.1
01:00 PM - 02:00 PM	47.4	75.1	41.4
02:00 PM - 03:00 PM	46.3	69.8	39.0
03:00 PM - 04:00 PM	51.4	76.5	41.3
04:00 PM - 05:00 PM	49.7	73.9	41.7
05:00 PM - 06:00 PM	61.6	73.2	40.8
06:00 PM - 07:00 PM	41.9	55.2	39.5
07:00 PM - 08:00 PM	42.6	59.8	39.6
08:00 PM - 09:00 PM	42.3	55.8	40.3
09:00 PM - 10:00 PM	41.9	55.8	39.7
10:00 PM - 11:00 PM	40.6	58.2	37.9
11:00 PM - 12:00 AM	40.5	61.0	37.3
12:00 AM - 01:00 AM	43.3	69.8	37.2
01:00 AM - 02:00 AM	40.3	60.2	37.5
02:00 AM - 03:00 AM	47.4	70.1	36.7
03:00 AM - 04:00 AM	47.6	75.9	35.8
04:00 AM - 05:00 AM	59.0	73.6	39.2
05:00 AM - 06:00 AM	45.3	64.6	38.2
06:00 AM - 07:00 AM	45.7	73.8	37.6
07:00 AM - 08:00 AM	42.7	65.3	37.1
08:00 AM - 09:00 AM	44.7	62.3	37.8
09:00 AM - 10:00 AM	45.8	64.0	40.0
10:00 AM - 11:00 AM	46.3	65.6	40.1
11:00 AM - 12:00 PM	43.7	63.4	39.3
Leq Average 24 hrs. (dB(A))	51.1		
Lmax (dB(A))		76.5	
L90 (dB(A))			39.2
Ldn (dB(A))	57.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Life Sciences

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19583-21/ EMAIL

S:\Reports_Air Noise.rpt (1:07PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639740-1

Page 1 of 1

Sample Number 2321499-18
Parameter Noise (Leq 24 hrs.)
Location ชุมชนตากวน-อำเภอประจักษ์ (N6) (GPS 47P 0736063, 1402067)
Measurement Date Apr 21 - Apr 22, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	45.4	66.7	40.6
01:00 PM - 02:00 PM	44.1	62.3	40.0
02:00 PM - 03:00 PM	44.8	63.7	39.0
03:00 PM - 04:00 PM	46.6	65.8	38.2
04:00 PM - 05:00 PM	46.6	69.3	36.4
05:00 PM - 06:00 PM	56.2	72.4	36.0
06:00 PM - 07:00 PM	40.4	54.1	38.0
07:00 PM - 08:00 PM	40.4	52.9	38.6
08:00 PM - 09:00 PM	39.9	56.7	37.3
09:00 PM - 10:00 PM	39.6	61.1	37.6
10:00 PM - 11:00 PM	41.0	54.3	38.7
11:00 PM - 12:00 AM	41.4	62.8	38.7
12:00 AM - 01:00 AM	41.6	54.4	38.4
01:00 AM - 02:00 AM	47.9	65.8	36.9
02:00 AM - 03:00 AM	45.9	68.2	36.5
03:00 AM - 04:00 AM	46.0	68.4	37.0
04:00 AM - 05:00 AM	62.8	78.2	39.7
05:00 AM - 06:00 AM	45.1	69.9	38.3
06:00 AM - 07:00 AM	45.1	68.0	38.2
07:00 AM - 08:00 AM	44.8	69.7	38.1
08:00 AM - 09:00 AM	49.8	81.1	41.1
09:00 AM - 10:00 AM	52.1	72.0	40.3
10:00 AM - 11:00 AM	45.8	67.7	39.6
11:00 AM - 12:00 PM	45.1	72.8	39.0

Leq Average 24 hrs. (dB(A))

51.2

Lmax (dB(A))

81.1

L90 (dB(A))

38.3

Ldn (dB(A))

59.7

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639741-1

Page 1 of 1

Sample Number 2321499-19
Parameter Noise (Leq 24 hrs.)
Location ชุมชนตากวน-อำเภอประจักษ์ (N6) (GPS 47P 0736063, 1402067)
Measurement Date Apr 22 - Apr 23, 2023
Measurement by Kantaphon Maneesampan
Sound Level meter Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	43.6	59.7	39.7
01:00 PM - 02:00 PM	43.3	63.7	39.3
02:00 PM - 03:00 PM	45.0	65.1	38.5
03:00 PM - 04:00 PM	47.0	74.2	41.0
04:00 PM - 05:00 PM	54.9	72.2	38.4
05:00 PM - 06:00 PM	42.7	59.3	39.8
06:00 PM - 07:00 PM	40.9	64.2	38.6
07:00 PM - 08:00 PM	40.0	53.2	38.4
08:00 PM - 09:00 PM	40.1	60.7	37.1
09:00 PM - 10:00 PM	40.0	52.8	38.2
10:00 PM - 11:00 PM	39.0	59.0	37.0
11:00 PM - 12:00 AM	41.6	59.7	38.0
12:00 AM - 01:00 AM	39.9	58.0	37.4
01:00 AM - 02:00 AM	38.5	55.6	36.6
02:00 AM - 03:00 AM	45.6	67.2	37.1
03:00 AM - 04:00 AM	54.6	77.6	37.2
04:00 AM - 05:00 AM	46.2	77.4	39.1
05:00 AM - 06:00 AM	46.7	67.2	38.7
06:00 AM - 07:00 AM	46.1	65.7	38.5
07:00 AM - 08:00 AM	65.2	78.3	40.9
08:00 AM - 09:00 AM	67.4	79.5	58.0
09:00 AM - 10:00 AM	64.6	79.8	42.0
10:00 AM - 11:00 AM	46.8	64.0	40.3
11:00 AM - 12:00 PM	47.5	70.6	40.7

Leq Average 24 hrs. (dB(A))

57.3

Lmax (dB(A))

79.8

L90 (dB(A))

38.5

Ldn (dB(A))

58.6

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639742-1

Page 1 of 1

Sample Number : 2321499-20
Parameter : Noise (Leq 24 hrs.)
Location : ชุมชนตากวน-ลำน้ำประจักษ์ (N6) (GPS 47P 0736063, 1402067)
Measurement Date : Apr 23 - Apr 24, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	44.8	65.7	41.0
01:00 PM - 02:00 PM	48.0	65.4	41.2
02:00 PM - 03:00 PM	47.9	69.8	41.5
03:00 PM - 04:00 PM	50.0	70.7	43.2
04:00 PM - 05:00 PM	55.0	72.3	39.8
05:00 PM - 06:00 PM	41.2	59.8	37.9
06:00 PM - 07:00 PM	40.0	56.0	38.0
07:00 PM - 08:00 PM	40.0	54.2	38.0
08:00 PM - 09:00 PM	39.0	51.6	36.6
09:00 PM - 10:00 PM	40.8	59.1	38.3
10:00 PM - 11:00 PM	39.7	54.8	37.4
11:00 PM - 12:00 AM	39.2	68.2	36.8
12:00 AM - 01:00 AM	39.2	53.3	37.5
01:00 AM - 02:00 AM	44.5	72.2	36.1
02:00 AM - 03:00 AM	39.7	60.0	35.3
03:00 AM - 04:00 AM	54.0	69.5	35.5
04:00 AM - 05:00 AM	44.2	65.8	40.4
05:00 AM - 06:00 AM	48.7	75.0	39.8
06:00 AM - 07:00 AM	50.0	72.9	39.7
07:00 AM - 08:00 AM	50.6	69.2	40.9
08:00 AM - 09:00 AM	52.6	70.4	41.0
09:00 AM - 10:00 AM	46.4	76.8	39.3
10:00 AM - 11:00 AM	45.1	62.3	40.6
11:00 AM - 12:00 PM	47.5	73.0	41.2

Leq Average 24 hrs. (dB(A)) : 48.2
Lmax (dB(A)) : 76.8
L90 (dB(A)) : 39.3
Ldn (dB(A)) : 54.1
Standard (dB(A)) : 70
Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2321499
Date Received : Apr 26, 2023
Date Reported : May 03, 2023
Report Number: 2639743-1

Page 1 of 1

Sample Number : 2321499-21
Parameter : Noise (Leq 24 hrs.)
Location : ชุมชนตากวน-ลำน้ำประจักษ์ (N6) (GPS 47P 0736063, 1402067)
Measurement Date : Apr 24 - Apr 25, 2023
Measurement by : Kantaphon Maneesampan
Sound Level meter : Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	46.4	60.2	44.0
01:00 PM - 02:00 PM	47.3	64.6	43.7
02:00 PM - 03:00 PM	48.2	61.2	44.5
03:00 PM - 04:00 PM	47.1	72.3	44.7
04:00 PM - 05:00 PM	52.8	71.9	44.0
05:00 PM - 06:00 PM	45.0	55.9	43.8
06:00 PM - 07:00 PM	44.7	58.2	43.7
07:00 PM - 08:00 PM	44.1	56.2	43.4
08:00 PM - 09:00 PM	45.3	59.2	44.0
09:00 PM - 10:00 PM	45.1	56.7	43.8
10:00 PM - 11:00 PM	45.1	67.4	43.5
11:00 PM - 12:00 AM	44.2	57.0	43.6
12:00 AM - 01:00 AM	46.3	71.4	44.3
01:00 AM - 02:00 AM	44.5	58.4	43.7
02:00 AM - 03:00 AM	47.1	71.6	43.3
03:00 AM - 04:00 AM	52.5	80.0	44.4
04:00 AM - 05:00 AM	51.1	79.0	45.8
05:00 AM - 06:00 AM	47.1	68.1	44.4
06:00 AM - 07:00 AM	62.7	72.0	43.8
07:00 AM - 08:00 AM	64.1	73.6	45.3
08:00 AM - 09:00 AM	61.3	72.5	57.7
09:00 AM - 10:00 AM	56.6	69.0	44.8
10:00 AM - 11:00 AM	48.3	70.7	45.0
11:00 AM - 12:00 PM	48.8	61.8	45.1

Leq Average 24 hrs. (dB(A)) : 54.9
Lmax (dB(A)) : 80.0
L90 (dB(A)) : 44.0
Ldn (dB(A)) : 60.8
Standard (dB(A)) : 70
Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ภาคผนวก ค-6

ระดับเสียงภายในสถานประกอบการ



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2314071
Date Received : Mar 14, 2023
Date Reported : Mar 17, 2023
Report Number: 2561393-1

Page 1 of 1

Sample Number 2314071-1
Parameter Noise (Leq 8 hrs.)
Location Air Compressor (N4)
Measurement Date Mar 14, 2023
Measurement by Natthapon Jiengwareewong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:05 AM - 10:05 AM	76.8	91.6	75.2
10:05 AM - 11:05 AM	77.4	90.6	75.1
11:05 AM - 12:05 PM	77.5	90.0	75.0
12:05 PM - 01:05 PM	77.1	89.7	75.0
01:05 PM - 02:05 PM	77.3	89.8	75.1
02:05 PM - 03:05 PM	77.3	89.6	75.1
03:05 PM - 04:05 PM	77.1	89.8	75.1
04:05 PM - 05:05 PM	77.2	89.9	75.2

Leq Average 8 hrs. (dB(A)) 77.2
Lmax (dB(A)) 91.6
Standard (dB(A)) 90 140
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2341753
Date Received : May 10, 2023
Date Reported : May 15, 2023
Report Number: 2623369-1

Page 1 of 1

Sample Number 2341753-1
Parameter Noise (Leq 8 hrs.)
Location Air Compressor (N4)
Measurement Date May 08, 2023
Measurement by Natthapon Jiengwareewong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:09 AM - 10:09 AM	75.6	87.6	74.4
10:09 AM - 11:09 AM	75.6	86.8	74.2
11:09 AM - 12:09 PM	75.2	86.7	74.1
12:09 PM - 01:09 PM	75.5	86.8	74.0
01:09 PM - 02:09 PM	75.5	87.3	74.3
02:09 PM - 03:09 PM	75.6	87.8	74.3
03:09 PM - 04:09 PM	75.2	87.4	74.2
04:09 PM - 05:09 PM	75.5	87.3	74.3

Leq Average 8 hrs. (dB(A)) 75.5
Lmax (dB(A)) 87.8
Standard (dB(A)) 90 140
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ภาคผนวก ค-7

ระดับความร้อนภายในสถานประกอบการ



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2314180
Date Received : Mar 14, 2023
Date Reported : Mar 17, 2023
Report Number: 2561433-1

Page 2 of 2

Sample Number 2314180-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Mar 14, 2023
Measurement by Natthapon Jhengwareewong
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
HRSG 5-6	120	31.9	28.9	40.8	34.6
Average (WBGT)		31.9			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Supot S.

Supot Salamteh
Section Head

Approved by

Wichan Ch.

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2314180
Date Received : Mar 14, 2023
Date Reported : Mar 17, 2023
Report Number: 2561433-1

Page 1 of 2

Sample Number 2314180-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Mar 14, 2023
Measurement by Natthapon Jhengwareewong
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
HRSG 7-10	120	29.9	28.1	34.3	33.3
Average (WBGT)		29.9			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Supot S.

Supot Salamteh
Section Head

Approved by

Wichan Ch.

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
3, I-4 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : GEN

Lot ID: 2341754
Date Received : May 10, 2023
Date Reported : May 13, 2023
Report Number: 2623370-1

Page 1 of 1

Sample Number 2341754-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date May 08, 2023
Measurement by Natthapon Jiengwareewong
Location ปฏิบัติงาน - พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
HRSG 7-10	120	31.5	29.3	36.9	36.4
Average (WBGT)		31.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

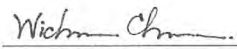
Guideline:

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

Technical Management


Supot Salamteh
Section Head

Approved by


Wichan Choonharat
Assistant Manager

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