

ภาคผนวก ค

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ใบรับรองผลการวิเคราะห์

## ภาคผนวก ค-1

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คุณภาพอากาศในบรรยากาศโดยทั่วไป





## Analysis / Test Report



TESTING  
No.0009

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390358

Date Received : Sep 15, 2023

Date Reported : Sep 25, 2023

Report Number: 2735298-1

Page 1 of 1

Sample Description Air Quality

Location กรุงเทพมหานคร

Date Analysis Commenced Sep 18, 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)
2390358-22	Sep 06 - Sep 07, 2023	0.095	0.044	755	34
2390358-23	Sep 07 - Sep 08, 2023	0.040	0.032	755	34
2390358-24	Sep 08 - Sep 09, 2023	0.077	0.038	755	34
2390358-25	Sep 09 - Sep 10, 2023	0.155	0.051	755	34
2390358-26	Sep 10 - Sep 11, 2023	0.060	0.026	755	34
2390358-27	Sep 11 - Sep 12, 2023	0.074	0.034	755	30
2390358-28	Sep 12 - Sep 13, 2023	0.069	0.035	755	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 : Prommee Sripatnet

### Remark :

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

Approved by

*Saranya C.*

Saranya Chalermtamrong  
Scientist (4)

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## Analysis / Test Report



TESTING  
No.0009

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390358

Date Received : Sep 15, 2023

Date Reported : Sep 25, 2023

Report Number: 2787281-1

Page 1 of 1

Sample Description Air Quality

Location กรุงเทพมหานคร

Date Analysis Commenced Sep 18, 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)
2390358-1	Sep 06 - Sep 07, 2023	0.052	0.036	755	35
2390358-2	Sep 07 - Sep 08, 2023	0.028	0.026	755	31
2390358-3	Sep 08 - Sep 09, 2023	0.035	0.027	755	35
2390358-4	Sep 09 - Sep 10, 2023	0.027	0.019	755	35
2390358-5	Sep 10 - Sep 11, 2023	0.026	0.018	755	35
2390358-6	Sep 11 - Sep 12, 2023	0.031	0.024	755	31
2390358-7	Sep 12 - Sep 13, 2023	0.036	0.025	755	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 : Prommee Sripatnet

### Remark :

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

Approved by

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## Analysis / Test Report



TESTING  
No.0009

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390358  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number: 2787282-1

Page 1 of 1

Sample Description : Air Quality  
Location : ถนนพหลโยธิน  
Date Analysis Commenced : Sep 18, 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/m <sup>3</sup> )	Particulate Matter (PM-10) (mg/m <sup>3</sup> )	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2390358-8	Sep 06 - Sep 07, 2023	0.066	0.038	755	35
2390358-9	Sep 07 - Sep 08, 2023	0.054	0.035	755	31
2390358-10	Sep 08 - Sep 09, 2023	0.053	0.019	755	35
2390358-11	Sep 09 - Sep 10, 2023	0.041	0.036	755	35
2390358-12	Sep 10 - Sep 11, 2023	0.040	0.026	755	35
2390358-13	Sep 11 - Sep 12, 2023	0.045	<0.005	755	31
2390358-14	Sep 12 - Sep 13, 2023	0.058	0.037	755	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 : Prommee Sripatnet

### Remark :

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

Approved by

*Saranya C.*

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## Analysis / Test Report



TESTING  
No.0009

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390358  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number: 2787284-1

Page 1 of 1

Sample Description : Air Quality  
Location : ถนนพหลโยธิน  
Date Analysis Commenced : Sep 18, 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/m <sup>3</sup> )	Particulate Matter (PM-10) (mg/m <sup>3</sup> )	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2390358-15	Sep 06 - Sep 07, 2023	0.102	0.016	755	32
2390358-16	Sep 07 - Sep 08, 2023	0.076	0.053	755	32
2390358-17	Sep 08 - Sep 09, 2023	0.091	0.046	755	32
2390358-18	Sep 09 - Sep 10, 2023	0.078	0.042	755	33
2390358-19	Sep 10 - Sep 11, 2023	0.061	0.019	755	33
2390358-20	Sep 11 - Sep 12, 2023	0.074	0.007	755	30
2390358-21	Sep 12 - Sep 13, 2023	0.068	0.021	755	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 : Prommee Sripatnet

### Remark :

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

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390355  
Date Received : Sep 15, 2023  
Date Reported : Sep 21, 2023  
Report Number: 2735287-1

Page 1 of 1

Sample Description	Air Quality						
Location	ตำบลบ้านศาลาดง (GPS 47P 0711540, 1611933)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Sep 06, 2023 - Sep 13, 2023						
Measurement by	Prommee Sripanet						
Time	2390355-1 Sep 06, 2023	2390355-2 Sep 07, 2023	2390355-3 Sep 08, 2023	2390355-4 Sep 09, 2023	2390355-5 Sep 10, 2023	2390355-6 Sep 11, 2023	2390355-7 Sep 12, 2023
01:00 PM - 02:00 PM	0.018	0.005	0.004	0.009	0.002	0.006	0.007
02:00 PM - 03:00 PM	0.026	0.002	0.004	0.001	0.002	0.002	0.004
03:00 PM - 04:00 PM	0.014	0.002	0.004	0.004	0.001	0.002	0.005
04:00 PM - 05:00 PM	0.005	0.004	0.004	0.001	0.004	0.001	0.001
05:00 PM - 06:00 PM	0.006	0.004	0.007	0.002	0.006	0.003	0.007
06:00 PM - 07:00 PM	0.003	0.003	0.004	0.006	0.006	0.006	0.004
07:00 PM - 08:00 PM	0.005	0.006	0.004	0.008	0.003	0.006	0.009
08:00 PM - 09:00 PM	0.017	0.012	0.007	0.005	0.003	0.007	0.008
09:00 PM - 10:00 PM	0.012	0.012	0.013	0.005	0.005	0.007	0.008
10:00 PM - 11:00 PM	0.012	0.002	0.012	0.005	0.007	0.003	0.007
11:00 PM - 12:00 AM	0.022	0.002	0.011	0.003	0.006	0.003	0.010
12:00 AM - 01:00 AM	0.015	0.002	0.008	0.001	0.005	0.002	0.007
01:00 AM - 02:00 AM	0.012	0.002	0.006	0.003	0.005	0.004	0.012
02:00 AM - 03:00 AM	0.009	0.002	0.002	0.007	0.003	0.006	0.009
03:00 AM - 04:00 AM	0.003	0.002	0.003	0.003	0.008	0.006	0.016
04:00 AM - 05:00 AM	0.008	0.002	0.003	0.006	0.008	0.008	0.005
05:00 AM - 06:00 AM	0.010	0.002	0.002	0.004	0.004	0.014	0.011
06:00 AM - 07:00 AM	0.021	0.003	0.002	0.004	0.005	0.008	0.007
07:00 AM - 08:00 AM	0.007	0.018	0.002	0.007	0.010	0.010	0.006
08:00 AM - 09:00 AM	0.036	0.004	0.002	0.004	0.014	0.010	0.011
09:00 AM - 10:00 AM	0.020	0.005	0.002	0.007	0.008	0.005	0.009
10:00 AM - 11:00 AM	0.010	0.002	0.002	0.002	0.003	0.005	0.004
11:00 AM - 12:00 PM	0.006	0.002	0.002	0.002	0.002	0.004	0.004
12:00 PM - 01:00 PM	0.007	0.017	0.006	0.003	0.006	0.007	0.003
Average	0.013	0.005	0.005	0.004	0.005	0.006	0.007
1hr - Maximum	0.036	0.018	0.013	0.009	0.014	0.014	0.016
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)

Approved by

*Orawan R.*

Orawan Rakying  
Scientist (3)

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390355  
Date Received : Sep 15, 2023  
Date Reported : Sep 21, 2023  
Report Number: 2784881-1

Page 1 of 1

Sample Description	Air Quality						
Location	ตำบลบ้านศาลาดง (GPS 47P 0711979, 1612861)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Sep 06, 2023 - Sep 13, 2023						
Measurement by	Prommee Sripanet						
Time	2390355-8 Sep 06, 2023	2390355-9 Sep 07, 2023	2390355-10 Sep 08, 2023	2390355-11 Sep 09, 2023	2390355-12 Sep 10, 2023	2390355-13 Sep 11, 2023	2390355-14 Sep 12, 2023
02:00 PM - 03:00 PM	0.002	0.008	0.006	0.010	0.006	0.007	0.007
03:00 PM - 04:00 PM	<0.001	0.007	0.009	0.011	0.008	0.009	0.010
04:00 PM - 05:00 PM	0.016	0.007	0.008	0.012	0.009	0.008	0.009
05:00 PM - 06:00 PM	0.018	0.007	0.009	0.012	0.006	0.011	0.011
06:00 PM - 07:00 PM	0.018	0.010	0.012	0.011	0.007	0.012	0.008
07:00 PM - 08:00 PM	0.018	0.011	0.013	0.010	0.010	0.012	0.009
08:00 PM - 09:00 PM	0.016	0.011	0.016	0.011	0.010	0.012	0.008
09:00 PM - 10:00 PM	0.012	0.011	0.013	0.010	0.009	0.011	0.008
10:00 PM - 11:00 PM	0.012	0.012	0.010	0.007	0.008	0.008	0.009
11:00 PM - 12:00 AM	0.011	0.009	0.011	0.006	0.007	0.006	0.007
12:00 AM - 01:00 AM	0.009	0.009	0.011	0.006	0.006	0.005	0.007
01:00 AM - 02:00 AM	0.008	0.006	0.009	0.005	0.006	0.004	0.007
02:00 AM - 03:00 AM	0.007	0.004	0.008	0.006	0.008	0.004	0.006
03:00 AM - 04:00 AM	0.006	0.004	0.008	0.007	0.004	0.004	0.006
04:00 AM - 05:00 AM	0.005	0.004	0.006	0.006	0.004	0.004	0.006
05:00 AM - 06:00 AM	0.004	0.004	0.006	0.006	0.005	0.004	0.006
06:00 AM - 07:00 AM	0.008	0.003	0.006	0.007	0.004	0.004	0.006
07:00 AM - 08:00 AM	0.007	0.003	0.006	0.007	0.004	0.004	0.006
08:00 AM - 09:00 AM	0.008	0.002	0.007	0.008	0.005	0.004	0.007
09:00 AM - 10:00 AM	0.006	0.003	0.006	0.007	0.007	0.004	0.007
10:00 AM - 11:00 AM	0.005	0.003	0.006	0.006	0.005	0.004	0.006
11:00 AM - 12:00 PM	0.006	0.004	0.006	0.007	0.005	0.003	0.006
12:00 PM - 01:00 PM	0.005	0.004	0.006	0.005	0.004	0.003	0.006
01:00 PM - 02:00 PM	0.006	0.006	0.006	0.006	0.006	0.005	0.007
Average	0.009	0.006	0.009	0.008	0.006	0.006	0.007
1hr - Maximum	0.018	0.012	0.016	0.012	0.010	0.012	0.011
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

Approved by

*Orawan R.*

Orawan Rakying  
Scientist (3)

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Sarabun Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390355  
Date Received : Sep 15, 2023  
Date Reported : Sep 21, 2023  
Report Number: 2784882-1

Page 1 of 1

Sample Description	Air Quality						
Location	ตำบลพลาญชัย (GPS 47P 0710377, 1609651)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Sep 06, 2023 - Sep 13, 2023						
Measurement by	Prommee Sripatnet						
Time	2390355-15 Sep 06, 2023	2390355-16 Sep 07, 2023	2390355-17 Sep 08, 2023	2390355-18 Sep 09, 2023	2390355-19 Sep 10, 2023	2390355-20 Sep 11, 2023	2390355-21 Sep 12, 2023
11:00 AM - 12:00 PM	0.004	0.008	0.009	0.005	0.004	0.006	0.020
12:00 PM - 01:00 PM	0.005	0.006	0.005	0.005	0.004	0.009	0.014
01:00 PM - 02:00 PM	0.006	0.004	0.004	0.005	0.006	0.012	0.009
02:00 PM - 03:00 PM	0.006	0.004	0.003	0.006	0.005	0.012	0.009
03:00 PM - 04:00 PM	0.006	0.004	0.004	0.006	0.006	0.012	0.014
04:00 PM - 05:00 PM	0.012	0.005	0.006	0.008	0.008	0.015	0.006
05:00 PM - 06:00 PM	0.020	0.009	0.004	0.011	0.010	0.014	0.009
06:00 PM - 07:00 PM	0.026	0.014	0.012	0.024	0.008	0.014	0.016
07:00 PM - 08:00 PM	0.023	0.011	0.019	0.007	0.011	0.014	0.010
08:00 PM - 09:00 PM	0.020	0.019	0.019	0.008	0.011	0.010	0.011
09:00 PM - 10:00 PM	0.018	0.017	0.016	0.006	0.011	0.008	0.011
10:00 PM - 11:00 PM	0.017	0.014	0.019	0.005	0.013	0.007	0.012
11:00 PM - 12:00 AM	0.016	0.007	0.016	0.006	0.010	0.006	0.013
12:00 AM - 01:00 AM	0.012	0.004	0.011	0.005	0.006	0.007	0.010
01:00 AM - 02:00 AM	0.005	0.008	0.010	0.004	0.007	0.007	0.010
02:00 AM - 03:00 AM	0.005	0.008	0.008	0.005	0.010	0.007	0.011
03:00 AM - 04:00 AM	0.011	0.009	0.009	0.006	0.006	0.008	0.012
04:00 AM - 05:00 AM	0.013	0.009	0.010	0.006	0.006	0.009	0.012
05:00 AM - 06:00 AM	0.013	0.009	0.010	0.007	0.009	0.009	0.011
06:00 AM - 07:00 AM	0.014	0.012	0.012	0.008	0.012	0.012	0.011
07:00 AM - 08:00 AM	0.015	0.016	0.012	0.007	0.014	0.010	0.012
08:00 AM - 09:00 AM	0.032	0.016	0.007	0.007	0.011	0.010	0.013
09:00 AM - 10:00 AM	0.014	0.015	0.007	0.007	0.008	0.010	0.008
10:00 AM - 11:00 AM	0.012	0.010	0.006	0.006	0.009	0.010	0.006
Average	0.014	0.010	0.010	0.007	0.008	0.010	0.011
1hr - Maximum	0.032	0.019	0.019	0.024	0.014	0.015	0.020
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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Approved by

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Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Sarabun Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390355  
Date Received : Sep 15, 2023  
Date Reported : Sep 21, 2023  
Report Number: 2784883-1

Page 1 of 1

Sample Description	Air Quality						
Location	ตำบลพลาญชัย (GPS 47P 0710998, 1609715)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Sep 06, 2023 - Sep 13, 2023						
Measurement by	Prommee Sripatnet						
Time	2390355-22 Sep 06, 2023	2390355-23 Sep 07, 2023	2390355-24 Sep 08, 2023	2390355-25 Sep 09, 2023	2390355-26 Sep 10, 2023	2390355-27 Sep 11, 2023	2390355-28 Sep 12, 2023
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.003
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.002	0.001	0.001	0.001	0.002	0.002	0.001
03:00 PM - 04:00 PM	0.002	0.001	0.001	0.001	0.002	0.002	0.001
04:00 PM - 05:00 PM	0.002	0.001	0.001	0.001	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.002	0.001	0.001	0.002	0.002	0.002	0.002
06:00 PM - 07:00 PM	0.003	0.002	0.001	0.002	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.003	0.002	0.002	0.002	0.002	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.005	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.004	0.007	0.002	0.002	0.002	0.002	0.003
10:00 PM - 11:00 PM	0.005	0.004	0.003	0.002	0.002	0.002	0.005
11:00 PM - 12:00 AM	0.008	0.005	0.007	0.002	0.002	0.002	0.006
12:00 AM - 01:00 AM	0.010	0.002	0.003	0.003	0.002	0.002	0.006
01:00 AM - 02:00 AM	0.005	0.002	0.003	0.003	0.002	0.002	0.005
02:00 AM - 03:00 AM	0.002	0.008	0.003	0.002	0.002	0.004	0.006
03:00 AM - 04:00 AM	0.002	0.010	0.003	0.002	0.002	0.005	0.005
04:00 AM - 05:00 AM	0.006	0.008	0.003	0.003	0.003	0.004	0.004
05:00 AM - 06:00 AM	0.007	0.009	0.004	0.003	0.004	0.004	0.006
06:00 AM - 07:00 AM	0.009	0.011	0.006	0.004	0.004	0.008	0.005
07:00 AM - 08:00 AM	0.009	0.011	0.008	0.004	0.008	0.006	0.005
08:00 AM - 09:00 AM	0.010	0.010	0.005	0.004	0.008	0.006	0.007
09:00 AM - 10:00 AM	0.016	0.006	0.003	0.003	0.004	0.003	0.005
10:00 AM - 11:00 AM	0.004	0.005	0.002	0.002	0.002	0.003	0.003
11:00 AM - 12:00 PM	0.004	0.003	0.002	0.002	0.002	0.002	0.002
Average	0.005	0.005	0.003	0.002	0.003	0.003	0.004
1hr - Maximum	0.016	0.011	0.008	0.004	0.008	0.008	0.007
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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Approved by

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390362

Date Received : Sep 15, 2023

Date Reported : Sep 21, 2023

Report Number: 2735306-1

Page 1 of 1

Sample Description Air Quality

Location ถนนพหลโยธิน (GPS 47P 0711540, 1611933)

Parameter Sulfur Dioxide (ppm)

Measurement Date Sep 06, 2023 - Sep 13, 2023

Measurement by Prommee Sripanet

Time	2390362-1 Sep 06, 2023	2390362-2 Sep 07, 2023	2390362-3 Sep 08, 2023	2390362-4 Sep 09, 2023	2390362-5 Sep 10, 2023	2390362-6 Sep 11, 2023	2390362-7 Sep 12, 2023
01:00 PM - 02:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
02:00 PM - 03:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03:00 PM - 04:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04:00 PM - 05:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05:00 PM - 06:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
06:00 PM - 07:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
07:00 PM - 08:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08:00 PM - 09:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09:00 PM - 10:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10:00 PM - 11:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11:00 PM - 12:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12:00 AM - 01:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
01:00 AM - 02:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
02:00 AM - 03:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03:00 AM - 04:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04:00 AM - 05:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05:00 AM - 06:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
06:00 AM - 07:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
07:00 AM - 08:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08:00 AM - 09:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09:00 AM - 10:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10:00 AM - 11:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11:00 AM - 12:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12:00 PM - 01:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Average	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1hr - Maximum	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

Reference Method : US EPA Method Part 53 and 58

Approved by

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Scientist (3)

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390362

Date Received : Sep 15, 2023

Date Reported : Sep 21, 2023

Report Number: 2784884-1

Page 1 of 1

Sample Description Air Quality

Location ถนนพหลโยธิน (GPS 47P 0711979, 1612861)

Parameter Sulfur Dioxide (ppm)

Measurement Date Sep 06, 2023 - Sep 13, 2023

Measurement by Prommee Sripanet

Time	2390362-8 Sep 06, 2023	2390362-9 Sep 07, 2023	2390362-10 Sep 08, 2023	2390362-11 Sep 09, 2023	2390362-12 Sep 10, 2023	2390362-13 Sep 11, 2023	2390362-14 Sep 12, 2023
02:00 PM - 03:00 PM	0.003	0.001	0.001	0.001	0.002	0.001	0.001
03:00 PM - 04:00 PM	0.003	0.001	0.001	0.001	0.001	0.001	0.001
04:00 PM - 05:00 PM	0.004	0.001	0.001	0.001	0.001	0.001	0.001
05:00 PM - 06:00 PM	0.003	0.001	0.001	0.001	0.001	0.001	0.001
06:00 PM - 07:00 PM	0.003	0.001	0.001	0.001	0.002	0.002	0.001
07:00 PM - 08:00 PM	0.003	0.001	0.001	0.001	0.002	0.002	0.001
08:00 PM - 09:00 PM	0.002	0.001	0.002	0.001	0.002	0.002	0.001
09:00 PM - 10:00 PM	0.002	0.001	0.001	0.001	0.002	0.002	0.001
10:00 PM - 11:00 PM	0.002	0.001	0.001	0.001	0.002	0.002	0.001
11:00 PM - 12:00 AM	0.002	0.001	0.001	0.001	0.002	0.001	0.001
12:00 AM - 01:00 AM	0.002	0.001	0.002	0.001	0.001	0.001	0.001
01:00 AM - 02:00 AM	0.002	0.001	0.001	0.001	0.002	0.001	0.001
02:00 AM - 03:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.002
03:00 AM - 04:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.002
04:00 AM - 05:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
05:00 AM - 06:00 AM	0.001	0.001	0.001	0.002	0.001	0.001	0.001
06:00 AM - 07:00 AM	0.001	0.001	0.001	0.002	0.001	0.001	0.001
07:00 AM - 08:00 AM	0.001	0.001	0.001	0.002	0.001	0.001	0.001
08:00 AM - 09:00 AM	0.001	0.001	0.002	0.002	0.001	0.001	0.002
09:00 AM - 10:00 AM	0.001	0.001	0.002	0.002	0.002	0.001	0.002
10:00 AM - 11:00 AM	0.001	0.001	0.002	0.002	0.002	0.001	0.002
11:00 AM - 12:00 PM	0.001	0.001	0.002	0.002	0.002	0.001	0.002
12:00 PM - 01:00 PM	0.001	0.001	0.001	0.002	0.002	0.001	0.001
01:00 PM - 02:00 PM	0.001	0.001	0.001	0.002	0.002	0.001	0.001
Average	0.002	0.001	0.001	0.001	0.001	0.001	0.001
1hr - Maximum	0.004	0.001	0.002	0.002	0.002	0.002	0.002
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

Reference Method : US EPA Method Part 53 and 58

Approved by

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390362

Date Received : Sep 15, 2023

Date Reported : Sep 21, 2023

Report Number: 2784886-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ถนนพหลโยธิน (GPS 47P 0710377, 1609651)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Sep 06, 2023 - Sep 13, 2023  
**Measurement by** Prommee Sripanet

Time	2390362-15 Sep 06, 2023	2390362-16 Sep 07, 2023	2390362-17 Sep 08, 2023	2390362-18 Sep 09, 2023	2390362-19 Sep 10, 2023	2390362-20 Sep 11, 2023	2390362-21 Sep 12, 2023
11:00 AM - 12:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12:00 PM - 01:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
01:00 PM - 02:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
02:00 PM - 03:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03:00 PM - 04:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04:00 PM - 05:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05:00 PM - 06:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
06:00 PM - 07:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
07:00 PM - 08:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08:00 PM - 09:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09:00 PM - 10:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10:00 PM - 11:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11:00 PM - 12:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12:00 AM - 01:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
01:00 AM - 02:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
02:00 AM - 03:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03:00 AM - 04:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04:00 AM - 05:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05:00 AM - 06:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
06:00 AM - 07:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
07:00 AM - 08:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08:00 AM - 09:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09:00 AM - 10:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10:00 AM - 11:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Average	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1hr - Maximum	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

Reference Method : US EPA Method Part 53 and 58

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390362

Date Received : Sep 15, 2023

Date Reported : Sep 21, 2023

Report Number: 2784887-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ถนนพหลโยธิน (GPS 47P 0710998, 1609715)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Sep 06, 2023 - Sep 13, 2023  
**Measurement by** Prommee Sripanet

Time	2390362-22 Sep 06, 2023	2390362-23 Sep 07, 2023	2390362-24 Sep 08, 2023	2390362-25 Sep 09, 2023	2390362-26 Sep 10, 2023	2390362-27 Sep 11, 2023	2390362-28 Sep 12, 2023
12:00 PM - 01:00 PM	0.001	<0.001	0.001	<0.001	<0.001	0.001	0.001
01:00 PM - 02:00 PM	0.001	<0.001	0.001	<0.001	<0.001	0.001	0.001
02:00 PM - 03:00 PM	0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
03:00 PM - 04:00 PM	0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
04:00 PM - 05:00 PM	0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
05:00 PM - 06:00 PM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
06:00 PM - 07:00 PM	0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
07:00 PM - 08:00 PM	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001
08:00 PM - 09:00 PM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
09:00 PM - 10:00 PM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
10:00 PM - 11:00 PM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
11:00 PM - 12:00 AM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
12:00 AM - 01:00 AM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
01:00 AM - 02:00 AM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
02:00 AM - 03:00 AM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
03:00 AM - 04:00 AM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
04:00 AM - 05:00 AM	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001
05:00 AM - 06:00 AM	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
06:00 AM - 07:00 AM	<0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001
07:00 AM - 08:00 AM	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001
08:00 AM - 09:00 AM	<0.001	0.001	<0.001	<0.001	0.001	0.001	0.001
09:00 AM - 10:00 AM	0.001	0.001	0.001	<0.001	0.001	0.001	0.001
10:00 AM - 11:00 AM	0.001	0.001	0.001	<0.001	0.001	0.001	0.001
11:00 AM - 12:00 PM	0.001	0.001	0.001	<0.001	0.001	0.001	0.001
Average	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001
1hr - Maximum	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

Reference Method : US EPA Method Part 53 and 58

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Approved by

*Orawan R.*

Orawan Rak Yong  
Scientist (3)

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## ภาคผนวก ค-2

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ความเร็วและทิศทางการลม



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390369  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number : 2735311-1

Page 1 of 2

Sample Number : 2390369-1 to 7  
Parameter : Wind Speed / Wind Direction  
Location : กรุงเทพมหานคร (GPS 47P 0711540, 1611933)  
Sampling Date : Sep 06 - Sep 13, 2023  
Sampling by : Prommee Sripatnet

Time	Sep 06 - Sep 07, 2023		Sep 07 - Sep 08, 2023		Sep 08 - Sep 09, 2023		Sep 09 - Sep 10, 2023		Sep 10 - Sep 11, 2023		Sep 11 - Sep 12, 2023		Sep 12 - Sep 13, 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)
01:00 PM - 02:00 PM	1.3	210.0	SSW	0.3	211.0	SSW	0.7	207.0	SSW	1.8	262.0	W	0.8	203.0
02:00 PM - 03:00 PM	0.0	-	-	1.4	206.0	SSW	0.4	226.0	SW	2.2	190.0	S	3.8	195.0
03:00 PM - 04:00 PM	0.2	-	-	1.0	209.0	SSW	0.8	220.0	SW	0.3	22.0	NNE	2.7	118.0
04:00 PM - 05:00 PM	0.0	-	-	0.7	261.0	W	0.4	232.0	SW	1.3	103.0	ESE	0.7	58.0
05:00 PM - 06:00 PM	0.6	249.0	WSW	0.8	242.0	WSW	0.2	-	-	0.5	221.0	SW	1.5	214.0
06:00 PM - 07:00 PM	0.2	-	-	0.0	-	-	0.0	-	-	1.3	87.0	E	2.0	221.0
07:00 PM - 08:00 PM	0.9	212.0	SSW	0.0	-	-	0.5	221.0	SW	1.7	216.0	SW	0.8	220.0
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.1	-	-	1.8	211.0	SSW	1.0	224.0
09:00 PM - 10:00 PM	0.3	228.0	SW	0.0	-	-	0.2	-	-	1.0	218.0	SW	0.8	217.0
10:00 PM - 11:00 PM	0.0	-	-	0.2	-	-	0.0	-	-	1.0	236.0	SW	1.7	205.0
11:00 PM - 12:00 AM	0.2	-	-	0.7	220.0	SW	0.0	-	-	0.3	217.0	SW	1.2	213.0
12:00 AM - 01:00 AM	0.1	-	-	0.0	-	-	0.5	216.0	SW	0.7	228.0	SW	1.4	238.0
01:00 AM - 02:00 AM	0.9	230.0	SW	0.0	-	-	0.6	214.0	SW	0.2	-	-	2.5	204.0
02:00 AM - 03:00 AM	0.4	228.0	SW	0.0	-	-	0.6	221.0	SW	2.4	249.0	WSW	0.4	212.0
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.4	226.0	SW	0.9	261.0	W	0.5	218.0
04:00 AM - 05:00 AM	0.0	-	-	0.1	-	-	0.6	212.0	SSW	0.2	-	-	0.8	213.0
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.6	242.0	WSW	0.6	232.0	SW	0.0	-
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.1	-	-	0.2	-	-	0.9	210.0
07:00 AM - 08:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	2.2	230.0	SW	0.0	-
08:00 AM - 09:00 AM	0.8	71.0	ENE	0.0	-	-	0.9	266.0	W	0.5	239.0	WSW	0.0	-
09:00 AM - 10:00 AM	1.7	92.0	E	0.5	229.0	SW	0.9	254.0	WSW	0.6	173.0	S	0.8	202.0
10:00 AM - 11:00 AM	0.6	223.0	SW	0.6	208.0	SSW	0.6	211.0	SSW	1.4	230.0	SW	1.1	225.0
11:00 AM - 12:00 PM	1.5	209.0	SSW	0.3	219.0	SW	1.6	213.0	SSW	1.5	226.0	SW	2.3	192.0
12:00 PM - 01:00 PM	1.2	213.0	SSW	0.4	235.0	SW	1.3	250.0	WSW	1.8	219.0	SW	0.7	227.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont  
Assistant General Manager

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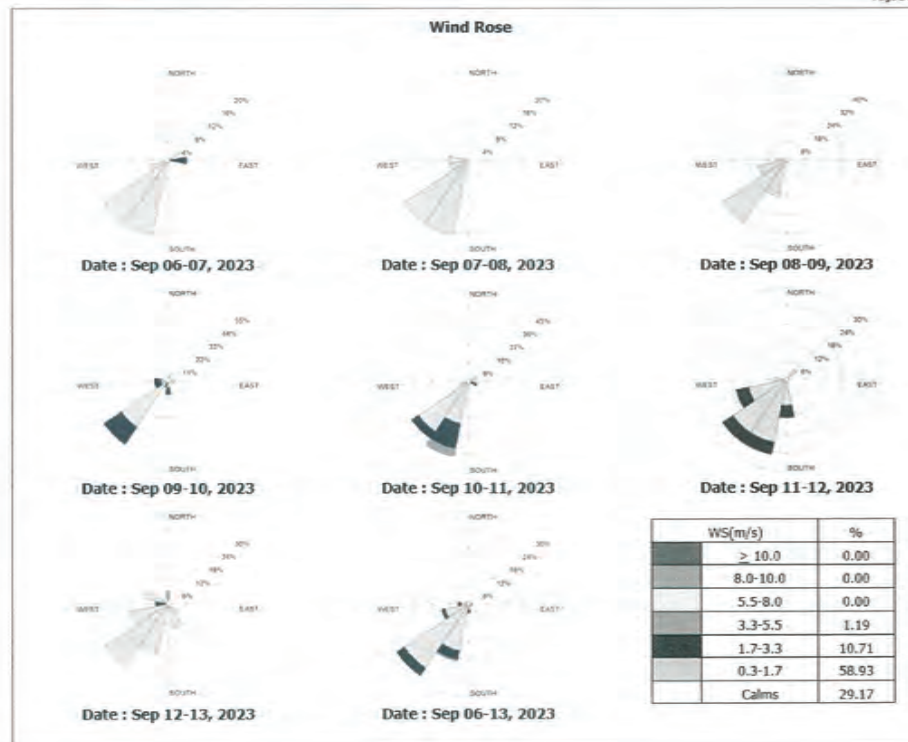
## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390369  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number : 2735311-1

Page 2 of 2



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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390369  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number : 2735311-1

Page 1 of 2

Sample Number : 2390369-8 to 14  
Parameter : Wind Speed / Wind Direction  
Location : กรุงเทพมหานคร (GPS 47P 0711979, 1612861)  
Sampling Date : Sep 06 - Sep 13, 2023  
Sampling by : Prommee Sripatmet

Time	Sep 06 - Sep 07, 2023		Sep 07 - Sep 08, 2023		Sep 08 - Sep 09, 2023		Sep 09 - Sep 10, 2023		Sep 10 - Sep 11, 2023		Sep 11 - Sep 12, 2023		Sep 12 - Sep 13, 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	0.0	-	0.5	322.0	NW	0.0	-	1.1	287.0	WNW	0.0	-	2.0	249.0	WSW					
03:00 PM - 04:00 PM	0.7	217.0	SW	1.0	51.0	NE	0.2	-	1.2	161.0	SSE	1.3	293.0	WNW	0.1	-	0.2	-	-	
04:00 PM - 05:00 PM	0.0	-	0.5	309.0	NW	0.0	-	0.0	-	3.0	171.0	S	0.0	-	0.0	-	0.0	-	-	
05:00 PM - 06:00 PM	2.6	221.0	SW	0.0	-	0.0	-	0.0	-	1.9	182.0	S	0.0	-	0.0	-	0.0	-	-	
06:00 PM - 07:00 PM	0.0	-	0.0	-	0.2	-	0.0	-	1.1	157.0	SSE	0.0	-	0.6	309.0	NW	-	-	-	
07:00 PM - 08:00 PM	0.0	-	0.0	-	0.0	-	0.0	-	1.2	177.0	S	0.0	-	0.2	-	-	-	-	-	
08:00 PM - 09:00 PM	0.0	-	0.0	-	0.0	-	1.3	206.0	SSW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	
09:00 PM - 10:00 PM	0.6	175.0	S	1.0	168.0	SSE	0.0	-	1.5	162.0	SSE	0.0	-	0.0	-	0.0	-	0.0	-	
10:00 PM - 11:00 PM	0.0	-	0.6	212.0	SSW	0.0	-	2.4	169.0	S	0.0	-	1.2	196.0	SSW	0.0	-	0.0	-	
11:00 PM - 12:00 AM	0.0	-	0.0	-	0.3	256.0	WSW	1.1	205.0	SSW	0.0	-	0.0	-	0.0	-	0.0	-	-	
12:00 AM - 01:00 AM	0.0	-	0.0	-	0.0	-	1.2	159.0	SSE	0.6	350.0	N	0.0	-	0.0	-	0.0	-	-	
01:00 AM - 02:00 AM	0.0	-	0.0	-	0.3	216.0	SW	0.3	184.0	S	0.0	-	0.0	-	0.0	-	0.0	-	-	
02:00 AM - 03:00 AM	0.0	-	0.0	-	0.0	-	1.2	199.0	SSW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	
03:00 AM - 04:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	
04:00 AM - 05:00 AM	0.0	-	0.0	-	0.0	-	1.2	179.0	S	0.4	290.0	WNW	0.3	174.0	S	0.0	-	0.0	-	
05:00 AM - 06:00 AM	0.0	-	0.0	-	0.0	-	1.4	204.0	SSW	0.5	163.0	SSE	0.0	-	0.2	-	-	-	-	
06:00 AM - 07:00 AM	0.4	232.0	SW	0.0	-	0.0	-	0.3	219.0	SW	0.4	169.0	S	0.8	187.0	S	0.6	164.0	SSE	
07:00 AM - 08:00 AM	1.2	47.0	NE	0.6	168.0	SSE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	
08:00 AM - 09:00 AM	0.0	-	0.4	169.0	S	1.8	196.0	SSW	0.8	199.0	SSW	0.1	-	0.0	-	0.7	177.0	S	-	
09:00 AM - 10:00 AM	0.9	205.0	SSW	0.0	-	0.0	-	2.3	164.0	SSE	0.0	-	0.4	200.0	SSW	0.4	206.0	SSW	-	
10:00 AM - 11:00 AM	0.4	237.0	WSW	0.3	172.0	S	1.0	133.0	SE	0.0	-	0.8	246.0	WSW	0.8	216.0	SW	0.3	208.0	SSW
11:00 AM - 12:00 PM	0.0	-	0.4	219.0	SW	2.1	183.0	S	1.2	160.0	SSE	0.6	301.0	WNW	1.9	273.0	W	0.7	197.0	SSW
12:00 PM - 01:00 PM	0.0	-	0.8	254.0	WSW	0.0	-	1.4	193.0	SSW	0.7	158.0	SSE	0.0	-	2.9	277.0	W	-	
01:00 PM - 02:00 PM	0.3	14.0	NNE	0.0	-	0.7	262.0	W	0.5	176.0	S	0.4	238.0	WSW	0.6	206.0	SSW	1.2	206.0	SSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jitranont  
Assistant General Manager

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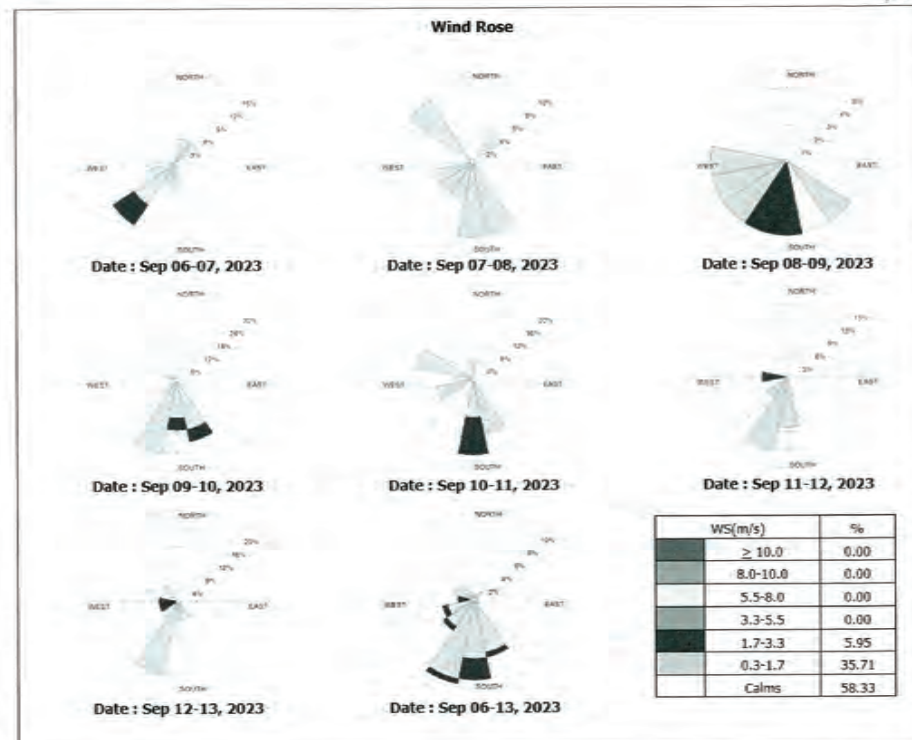
## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390369  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number : 2735311-1

Page 2 of 2



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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390369  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number : 2735311-1

Page 1 of 2

Sample Number : 2390369-15 to 21  
Parameter : Wind Speed / Wind Direction  
Location : ทุ่งนาพิกุลทอง (GPS 47P 0710377, 1609651)  
Sampling Date : Sep 06 - Sep 13, 2023  
Sampling by : Prommee Sripanet

Time	Sep 06 - Sep 07, 2023		Sep 07 - Sep 08, 2023		Sep 08 - Sep 09, 2023		Sep 09 - Sep 10, 2023		Sep 10 - Sep 11, 2023		Sep 11 - Sep 12, 2023		Sep 12 - Sep 13, 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	0.0	-	-	0.5	247.0	WSW	1.3	152.0	SSE	1.6	216.0	SW	2.0	136.0	SE
12:00 PM - 01:00 PM	2.1	272.0	W	0.6	331.0	NNW	1.9	355.0	N	2.2	223.0	SW	0.6	22.0	NNE
01:00 PM - 02:00 PM	1.2	252.0	WSW	2.3	271.0	W	1.0	294.0	VNW	2.3	226.0	SW	0.9	228.0	SW
02:00 PM - 03:00 PM	1.9	258.0	WSW	2.2	288.0	VNW	4.1	319.0	NW	2.9	216.0	SW	1.6	344.0	NW
03:00 PM - 04:00 PM	0.5	254.0	WSW	2.2	267.0	W	0.0	-	-	1.5	202.0	SSW	0.5	359.0	N
04:00 PM - 05:00 PM	1.0	99.0	E	1.0	300.0	VNW	0.5	332.0	NNW	1.7	170.0	S	0.6	258.0	WSW
05:00 PM - 06:00 PM	0.0	-	-	1.0	268.0	W	0.9	300.0	VNW	0.8	102.0	ESE	1.3	76.0	ENE
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	0.4	124.0	SE	1.0	47.0	NE	
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	0.0	-	-	2.3	281.0	W	0.4	24.0	NNE	
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.5	100.0	E	4.4	218.0	SW	0.0	-	-
09:00 PM - 10:00 PM	0.3	262.0	W	0.8	264.0	W	0.0	-	-	0.0	-	-	0.3	226.0	SW
10:00 PM - 11:00 PM	0.0	-	-	1.1	276.0	W	0.0	-	-	0.0	-	-	0.4	184.0	S
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	0.0	-	-	0.0	-	-	1.5	239.0	WSW	
12:00 AM - 01:00 AM	0.6	289.0	VNW	0.0	-	-	1.3	229.0	SW	0.0	-	-	0.2	-	-
01:00 AM - 02:00 AM	2.1	263.0	W	0.0	-	-	1.3	228.0	SW	0.5	11.0	N	3.4	234.0	SW
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	0.0	-	-	0.0	-	-	1.6	274.0	W	
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	0.6	15.0	NNE	0.8	224.0	SW	
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	1.4	81.0	E	0.2	-	-	0.0
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	0.0	-	-	0.0	-	0.7	97.0	E	0.1	-
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6
07:00 AM - 08:00 AM	0.0	-	-	0.0	-	-	0.0	-	0.0	-	-	0.4	328.0	NNW	
08:00 AM - 09:00 AM	0.0	-	-	0.5	187.0	S	0.0	-	-	1.3	4.0	N	0.0	-	-
09:00 AM - 10:00 AM	0.8	359.0	N	0.5	249.0	WSW	0.6	312.0	NW	0.5	269.0	W	0.9	238.0	WSW
10:00 AM - 11:00 AM	2.4	230.0	SW	1.5	260.0	W	1.4	300.0	VNW	0.3	117.0	ESE	1.7	227.0	SW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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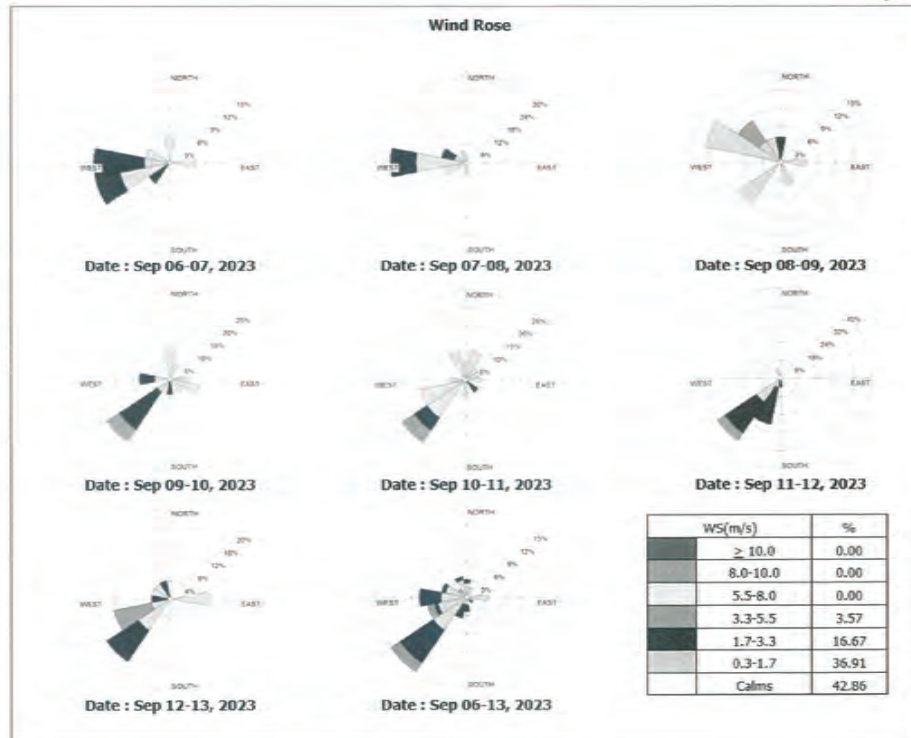
## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390369  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number : 2735311-1

Page 2 of 2



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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390369  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number : 2735311-1

Page 1 of 2

Sample Number : 2390369-22 to 28  
Parameter : Wind Speed / Wind Direction  
Location : ต.ท่าช้าง อ.เมือง จ.สระบุรี (GPS 47P 0710998, 1609715)  
Sampling Date : Sep 06 - Sep 13, 2023  
Sampling by : Prommee Sripatnet

Time	Sep 06 - Sep 07, 2023			Sep 07 - Sep 08, 2023			Sep 08 - Sep 09, 2023			Sep 09 - Sep 10, 2023			Sep 10 - Sep 11, 2023			Sep 11 - Sep 12, 2023			Sep 12 - Sep 13, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
12:00 PM - 01:00 PM	1.0	114.0	ESE	0.8	304.0	NW	0.2	-	-	1.0	106.0	ESE	0.6	135.0	SE	0.3	107.0	ESE	0.0	-	-
01:00 PM - 02:00 PM	0.5	305.0	NW	1.0	280.0	W	0.8	252.0	WSW	0.9	262.0	W	0.9	348.0	NNW	0.3	176.0	S	0.0	-	-
02:00 PM - 03:00 PM	1.9	114.0	ESE	1.0	260.0	W	1.3	273.0	W	3.6	103.0	ESE	0.4	208.0	SSW	0.0	-	-	0.3	269.0	W
03:00 PM - 04:00 PM	0.4	257.0	WSW	2.8	267.0	W	0.5	0.0	N	0.7	115.0	ESE	2.9	292.0	WNW	0.0	-	-	0.0	-	-
04:00 PM - 05:00 PM	0.0	-	-	0.4	197.0	SSW	1.4	278.0	W	0.0	-	-	0.2	-	-	0.3	176.0	S	0.3	276.0	W
05:00 PM - 06:00 PM	0.3	223.0	SW	0.8	248.0	WSW	0.0	-	-	0.0	-	-	0.4	286.0	WNW	0.4	184.0	S	0.5	330.0	NNW
06:00 PM - 07:00 PM	0.8	120.0	ESE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.3	177.0	S
07:00 PM - 08:00 PM	0.3	242.0	WSW	0.0	-	-	2.2	86.0	E	1.6	242.0	WSW	0.0	-	-	0.0	-	-	0.2	-	-
08:00 PM - 09:00 PM	1.1	117.0	ESE	0.5	116.0	ESE	0.3	149.0	SSE	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-
09:00 PM - 10:00 PM	0.5	115.0	ESE	0.9	149.0	SSE	0.2	-	-	0.7	122.0	ESE	0.0	-	-	0.0	-	-	0.4	111.0	ESE
10:00 PM - 11:00 PM	0.0	-	-	0.8	178.0	S	0.5	101.0	E	0.0	-	-	0.2	-	-	0.0	-	-	1.0	104.0	ESE
11:00 PM - 12:00 AM	0.4	122.0	ESE	0.2	-	-	0.6	223.0	SW	0.0	-	-	0.6	173.0	S	0.0	-	-	0.3	126.0	SE
12:00 AM - 01:00 AM	0.6	202.0	SSW	0.4	269.0	W	0.5	114.0	ESE	0.0	-	-	0.0	-	-	0.7	240.0	WSW	0.5	190.0	S
01:00 AM - 02:00 AM	0.7	262.0	W	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.6	249.0	WSW	0.3	243.0	WSW	0.0	-	-	0.4	189.0	S	0.0	-	-	0.0	-	-	0.4	187.0	S
03:00 AM - 04:00 AM	0.6	130.0	SE	0.1	-	-	0.8	202.0	SSW	0.0	-	-	0.0	-	-	0.0	-	-	1.3	68.0	ENE
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.4	218.0	SW	0.0	-	-	0.0	-	-	0.3	235.0	SW	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.8	122.0	ESE	0.0	-	-	0.6	326.0	NW	0.0	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.2	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.3	246.0	WSW	4.7	125.0	SE
07:00 AM - 08:00 AM	0.1	-	-	0.0	-	-	0.0	-	-	0.6	156.0	SSE	0.0	-	-	0.0	-	-	0.6	203.0	SW
08:00 AM - 09:00 AM	0.7	108.0	ESE	0.1	-	-	0.0	-	-	0.7	253.0	WSW	0.2	-	-	1.2	202.0	SSW	1.2	174.0	S
09:00 AM - 10:00 AM	0.6	111.0	ESE	0.3	248.0	WSW	0.8	153.0	SSE	1.1	174.0	S	1.4	176.0	S	0.0	-	-	4.3	120.0	ESE
10:00 AM - 11:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	1.4	330.0	NNW	0.2	-	-	1.3	177.0	S	0.9	168.0	SSE
11:00 AM - 12:00 PM	0.2	-	-	1.8	307.0	NW	1.0	290.0	WNW	1.1	280.0	W	0.0	-	-	2.4	194.0	SSW	0.0	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

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Assistant General Manager

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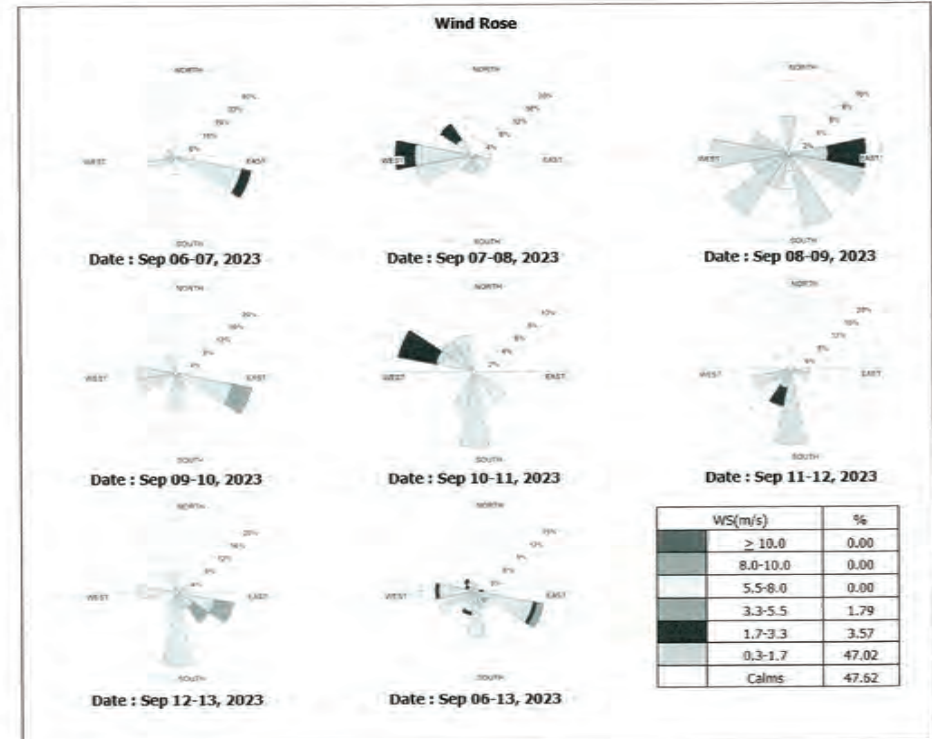
## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390369  
Date Received : Sep 15, 2023  
Date Reported : Sep 25, 2023  
Report Number : 2735311-1

Page 2 of 2



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## ภาคผนวก ค-3

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คุณภาพอากาศจากปล่องระบาย (การตรวจวัดแบบครั้งคราว)





## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :** 4105005113  
**Project Name :** Monitoring EIA  
**Project Location :** GTLC

**Lot ID: 2390403**  
**Date Received :** Sep 08, 2023  
**Date Reported :** Dec 22, 2023  
**Report Number:** 2735366-1 Rev. No.1

Page 1 of 2

**Sample Number** 2390403-1  
**Sampled Date** Sep 08, 2023  
**Sample Description** Emission from Stationary Source  
**Location** สถานี HRSG 11  
**Date Analysis Commenced** Sep 13, 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	13.9	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.1	%	
Type of Process	Combustion		Stack Temperature	98.0	°C	Gas Velocity	19.6	m/s	
Type of Fuel	Natural Gas		Moisture	8.60	%	Flow Rate (Actual O2)	364553	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O <sub>2</sub> at 13.9 % O <sub>2</sub>		Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	10:00 AM - 10:48 AM	mg/m3	-	0.5	<0.5	<0.5	32.7	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

### Guideline :

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

Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)  
เบอร์โทร 204-6115

Approved by

*Kanokorn Anek*  
Kanokorn Anek  
Senior Manager  
เบอร์โทร 204-6111

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S:\Reports\_Air Stack\_O2\_2GL.rpt (10:37AM)



## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :** 4105005113  
**Project Name :** Monitoring EIA  
**Project Location :** GTLC

**Lot ID: 2390403**  
**Date Received :** Sep 08, 2023  
**Date Reported :** Dec 22, 2023  
**Report Number:** 2735366-1 Rev. No.1

Page 2 of 2

**Sample Number** 2390403-1  
**Sampled Date** Sep 08, 2023  
**Sample Description** Emission from Stationary Source  
**Location** สถานี HRSG 11  
**Date Analysis Commenced** Sep 13, 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	13.9	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.1	%	
Type of Process	Combustion		Stack Temperature	98.0	°C	Gas Velocity	19.6	m/s	
Type of Fuel	Natural Gas		Moisture	8.60	%	Flow Rate (Actual O2)	364553	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>									
Total Suspended Particulate	10:00 AM - 10:48 AM	g/s	-	-	<0.05	1.78	-	Calculated	Bangkok

### Guideline :

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

### Note:

This Analysis test report is issued to supersede report No.2735366-1, Date Reported : Sep 15, 2023 due to revise guideline/specification

**Sampled By :** Anantachai Wesom

### Remark :

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

Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)  
เบอร์โทร 204-6115

Approved by

*Kanokorn Anek*  
Kanokorn Anek  
Senior Manager  
เบอร์โทร 204-6111

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S:\Reports\_Air Stack\_O2\_2GL.rpt (10:37AM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390397

Date Received : Sep 08, 2023

Date Reported : Sep 14, 2023

Report Number : 2735360-1

Page 1 of 1

Sample Number : 2390397-1  
Sample Description : Emission from Stationary Source  
Location : 11111 HRSO 11  
Sampled Date : Sep 08, 2023

Stack Description									
Ambient Temperature	32	°C	Diameter	3.00	m	Oxygen	13.93	%	
Ambient Pressure	756	mmHg	Shape	Circle		Carbon dioxide	4.13	%	
Type of Process	Combustion		Stack Temperature	98	°C	Gas Velocity	19.64	m/s	
Type of Fuel	Natural Gas		Moisture	8.61	%	Flow Rate	364982	Nm3/hr	

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)		Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	10:00 AM - 10:20 AM	13.93	4.12	3.15	6.28	12.44	24.79	0.05	0.11
2	10:21 AM - 10:41 AM	13.93	4.12	3.05	6.09	12.34	24.63	0.02	0.04
3	10:42 AM - 11:02 AM	13.92	4.14	2.95	5.88	12.16	24.22	0.03	0.07
Average (ppm)		13.93	4.13	3.05	6.08	12.31	24.55	0.04	0.07
Guideline <sup>1</sup> (ppm)				-	-	-	60	-	7.14
Guideline <sup>2</sup> (ppm)				-	-	-	120	-	20
Guideline <sup>3</sup> (ppm)				-	690	-	200	-	60
Result (mg/Nm <sup>3</sup> )				3.49	6.97	23.16	46.18	0.09	0.19
Emission Rate at Actual O <sub>2</sub> (g/s)				0.354		2.348		0.009	
Guideline <sup>3</sup> (g/s)				-		6.15		1.02	
Method				US EPA Method 10		US EPA Method 7E		US EPA Method 6C	

Sampled By : Ussaree Namburee

Guideline : <sup>1</sup> Environmental Impact Assessment Report of Gulf JP TLC Co., Ltd.

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

<sup>3</sup> 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  
โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont  
Assistant General Manager  
โทรศัพท์ 2-204-4702

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390407

Date Received : Sep 08, 2023

Date Reported : Dec 22, 2023

Report Number : 2735370-1 Rev. No.1

Page 1 of 2

Sample Number : 2390407-1  
Sampled Date : Sep 08, 2023  
Sample Description : Emission from Stationary Source  
Location : 11111 HRSO 12  
Date Analysis Commenced : Sep 13, 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	13.9	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.2	%	
Type of Process	Combustion		Stack Temperature	97.0	°C	Gas Velocity	21.2	m/s	
Type of Fuel	Natural Gas		Moisture	9.12	%	Flow Rate (Actual O <sub>2</sub> )	393271	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O <sub>2</sub> at 13.9 % O <sub>2</sub>		Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	12:00 PM - 12:48 PM	mg/m3	-	0.5	<0.5	<0.5	32.7	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf JP TLC Co., Ltd.

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

Technical Management

Sarayuth C.  
Saranyu Chalermthamrong  
Scientist (4)  
โทรศัพท์ 2-204-4717

Approved by

Kanokorn Anek  
Senior Manager  
โทรศัพท์ 2-204-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390407  
Date Received : Sep 08, 2023  
Date Reported : Dec 22, 2023  
Report Number: 2735370-1 Rev. No.1

Page 2 of 2

Sample Number : 2390407-1  
Sampled Date : Sep 08, 2023  
Sample Description : Emission from Stationary Source  
Location : ฝัฒฒ HRS 12  
Date Analysis Commenced : Sep 13, 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	13.9	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.2	%
Type of Process	Combustion		Stack Temperature	97.0	°C	Gas Velocity	21.2	m/s
Type of Fuel	Natural Gas		Moisture	9.12	%	Flow Rate (Actual O2)	393271	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	12:00 PM - 12:48 PM	g/s	-	-	<0.05	1.78	-	Calculated	Bangkok

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

Note:  
This Analysis test report is reissued to supersede report No.2735370-1, Date Reported : Sep 16, 2023 due to revise guideline/specification

Sampled By : Anantachai Wesom

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

Technical Management

*Saranya C.*  
Saranya Chalermthamrong  
Scientist (4)  
โทรศัทฒ ๖-204-๖-4717

Approved by

*Kanokkorn Anek*  
Kanokkorn Anek  
Senior Manager  
โทรศัทฒ ๖-204-๖-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390401  
Date Received : Sep 08, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2735363-1

Page 1 of 1

Sample Number : 2390401-1  
Sample Description : Emission from Stationary Source  
Location : ฝัฒฒ HRS 12  
Sampled Date : Sep 08, 2023

Stack Description		Stack Description		Stack Description		Stack Description	
Ambient Temperature	32	°C	Diameter	3.00	m	Oxygen	13.93
Ambient Pressure	756	mmHg	Shape	Circle		Carbon dioxide	4.17
Type of Process	Combustion		Stack Temperature	97	°C	Gas Velocity	21.25
Type of Fuel	Natural Gas		Moisture	9.10	%	Flow Rate	393802
							Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm) at Actual O <sub>2</sub>	Carbon Monoxide (ppm) at 7% O <sub>2</sub>	Oxides of Nitrogen (ppm) at Actual O <sub>2</sub>	Oxides of Nitrogen (ppm) at 7% O <sub>2</sub>	Sulfur Dioxide (ppm) at Actual O <sub>2</sub>	Sulfur Dioxide (ppm) at 7% O <sub>2</sub>
1	12:00 PM - 12:20 PM	13.92	4.18	2.76	5.50	12.28	24.46	0.22	0.44
2	12:21 PM - 12:41 PM	13.94	4.20	2.64	5.26	12.45	24.86	0.25	0.49
3	12:42 PM - 01:02 PM	13.93	4.14	2.73	5.45	12.33	24.60	0.27	0.53
Average (ppm)		13.93	4.17	2.71	5.40	12.35	24.64	0.24	0.49
Guideline <sup>(1)</sup> (ppm)		-	-	-	-	-	60	-	7.14
Guideline <sup>(2)</sup> (ppm)		-	-	-	-	-	120	-	20
Guideline <sup>(3)</sup> (ppm)		-	-	690	-	-	200	-	60
Result (mg/Nm <sup>3</sup> )				3.10	6.19	23.24	46.35	0.64	1.28
Emission Rate at Actual O <sub>2</sub> (g/s)				0.339		2.542			0.070
Guideline <sup>(3)</sup> (g/s)				-		6.15			1.02
Method				US EPA Method 10		US EPA Method 7E			US EPA Method 6C

Sampled By : Ussaree Namburee

Guideline :  
<sup>(1)</sup> Environmental Impact Assessment Report of Gulf JP TLC Co., Ltd.  
<sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.  
<sup>(3)</sup> 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  
โทรศัทฒ ๖-204-๖-6113

Approved by

*Sarayuth Jitranont*  
Sarayuth Jitranont  
Assistant General Manager  
โทรศัทฒ ๖-204-๖-4702

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## ภาคผนวก ค-4

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การตรวจสอบความถูกต้องของ CEMs (RATA)





## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GTLC

**Lot ID: 2337322**  
**Date Received :** Jun 02, 2023  
**Date Reported :** Jun 21, 2023  
**Report Number :** 2611863-1

Page 1 of 3

**Sample Number** 2337322-1  
**Sampled Date** Jun 01, 2023  
**Sample Description** Emission from Stationary Source  
**Location** สถานี HRSG 11  
**Parameter** NOx

### Relative Accuracy Test 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	01 Jun 23	11:15	11:35	16.30	16.08	36.45	34.95	-1.49
2	01 Jun 23	11:36	11:56	16.54	15.91	36.93	34.77	-2.16
3	01 Jun 23	11:57	12:17	16.25	15.07	36.27	32.78	-3.49
4	01 Jun 23	12:18	12:38	17.34	15.88	38.74	34.65	-4.09
5	01 Jun 23	12:39	12:59	16.76	15.12	37.48	33.21	-4.26
6	01 Jun 23	13:00	13:20	17.48	15.38	39.13	34.01	-5.12
7	01 Jun 23	13:21	13:41	18.11	16.23	40.52	36.09	-4.44
8	01 Jun 23	13:42	14:02	18.31	16.38	41.02	36.44	-4.58
9	01 Jun 23	14:03	14:23	18.95	16.62	42.38	36.82	-5.56
10*	01 Jun 23	14:24	14:44	18.93	16.60	42.36	36.34	-6.02
11*	01 Jun 23	14:45	15:05	19.48	17.09	43.60	37.69	-5.90
12*	01 Jun 23	15:06	15:26	19.54	17.00	43.75	37.49	-6.26
Average						38.77	34.86	-3.91
Confidence Coefficient (CC)								1.02
Relative Accuracy (Compared with RM) (%)								14.15
Relative Accuracy Criteria <sup>1/</sup> (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: \* Sample with \* is a rejected data

<sup>1/</sup> Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

*Wichan Choonharat*  
Wichan Choonharat  
Manager  
โทรศัพท์ 0-204-6113

Approved by

*Sarayu Jitranont*  
Sarayu Jitranont  
Assistant General Manager  
โทรศัพท์ 0-204-61702

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## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GTLC

**Lot ID: 2337322**  
**Date Received :** Jun 02, 2023  
**Date Reported :** Jun 21, 2023  
**Report Number :** 2611863-1

Page 2 of 3

**Sample Number** 2337322-1  
**Sampled Date** Jun 01, 2023  
**Sample Description** Emission from Stationary Source  
**Location** สถานี HRSG 11  
**Parameter** CO

### Relative Accuracy Test 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*	01 Jun 23	11:15	11:35	0.32	3.18	0.71	6.91	6.20
2*	01 Jun 23	11:36	11:56	0.27	2.73	0.61	5.97	5.36
3	01 Jun 23	11:57	12:17	0.44	2.81	0.99	6.12	5.13
4	01 Jun 23	12:18	12:38	0.20	2.60	0.45	5.67	5.23
5	01 Jun 23	12:39	12:59	0.16	2.54	0.36	5.59	5.23
6	01 Jun 23	13:00	13:20	0.17	2.49	0.38	5.52	5.13
7	01 Jun 23	13:21	13:41	0.26	2.31	0.58	5.13	4.56
8	01 Jun 23	13:42	14:02	0.23	2.45	0.52	5.44	4.92
9*	01 Jun 23	14:03	14:23	0.15	2.61	0.33	5.79	5.46
10	01 Jun 23	14:24	14:44	0.46	2.65	1.02	5.81	4.78
11	01 Jun 23	14:45	15:05	0.23	2.38	0.52	5.24	4.72
12	01 Jun 23	15:06	15:26	0.26	2.18	0.58	4.82	4.24
Average						0.60	5.48	4.88
Confidence Coefficient (CC)								0.26
Relative Accuracy (Compared with Emission Standard : 690 ppm) (%)								0.75
Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard)								≤ 5%

Reference Method : US EPA Method 10

Remark: \* Sample with \* is a rejected data

<sup>1/</sup> Relative Accuracy Criteria of CO is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 4 (PS-4) compared with Emission Standard 690 ppm at 7%O2

RA Result is within Criteria

Technical Management

*Wichan Choonharat*  
Wichan Choonharat  
Manager  
โทรศัพท์ 0-204-6113

Approved by

*Sarayu Jitranont*  
Sarayu Jitranont  
Assistant General Manager  
โทรศัพท์ 0-204-61702

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2337322  
Date Received : Jun 02, 2023  
Date Reported : Jun 21, 2023  
Report Number : 2611863-1

Page 3 of 3

Sample Number : 2337322-1  
Sampled Date : Jun 01, 2023  
Sample Description : Emission from Stationary Source  
Location : ฝาย HRSG 11  
Parameter : O2

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1*	01 Jun 23	11:15	11:35	14.68	14.51	-0.18
2	01 Jun 23	11:36	11:56	14.68	14.54	-0.14
3*	01 Jun 23	11:57	12:17	14.67	14.51	-0.16
4*	01 Jun 23	12:18	12:38	14.68	14.53	-0.15
5	01 Jun 23	12:39	12:59	14.68	14.57	-0.11
6	01 Jun 23	13:00	13:20	14.69	14.62	-0.08
7	01 Jun 23	13:21	13:41	14.69	14.65	-0.04
8	01 Jun 23	13:42	14:02	14.69	14.65	-0.04
9	01 Jun 23	14:03	14:23	14.69	14.63	-0.06
10	01 Jun 23	14:24	14:44	14.69	14.55	-0.14
11	01 Jun 23	14:45	15:05	14.69	14.60	-0.09
12	01 Jun 23	15:06	15:26	14.69	14.60	-0.10
Average				14.69	14.60	-0.09
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.09
Relative Accuracy Criteria <sup>1/</sup> (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: \* Sample with \* is a rejected data

<sup>1/</sup> Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Navaphut Srivirya

Technical Management

Wichan Choonharat  
Manager  
โทรศัพท์ 2-204-4-6113

Approved by

Sarayuth Jitranont  
Assistant General Manager  
โทรศัพท์ 2-204-4-4702

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786325-1

Page 1 of 1

Sample Number : 2390373-1  
Parameter : Noise (Leq 24 hrs.)  
Location : ถนนพหลโยธิน (GPS 47P 0711564, 1611950)  
Measurement Date : Sep 06 - Sep 07, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658244

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	54.7	94.2	44.4
02:00 PM - 03:00 PM	52.1	74.3	48.8
03:00 PM - 04:00 PM	53.7	81.4	48.4
04:00 PM - 05:00 PM	55.0	83.7	48.2
05:00 PM - 06:00 PM	51.4	69.4	48.5
06:00 PM - 07:00 PM	52.5	68.3	49.8
07:00 PM - 08:00 PM	56.1	76.0	50.7
08:00 PM - 09:00 PM	53.7	79.0	50.1
09:00 PM - 10:00 PM	53.2	76.2	50.4
10:00 PM - 11:00 PM	51.7	67.5	50.3
11:00 PM - 12:00 AM	51.3	68.8	49.9
12:00 AM - 01:00 AM	51.5	64.6	50.3
01:00 AM - 02:00 AM	51.2	65.8	49.1
02:00 AM - 03:00 AM	50.5	66.8	48.8
03:00 AM - 04:00 AM	51.9	75.0	48.9
04:00 AM - 05:00 AM	51.2	60.4	49.8
05:00 AM - 06:00 AM	51.5	69.9	50.3
06:00 AM - 07:00 AM	52.3	70.4	50.7
07:00 AM - 08:00 AM	53.7	69.5	50.9
08:00 AM - 09:00 AM	55.1	80.2	50.4
09:00 AM - 10:00 AM	54.2	80.1	48.9
10:00 AM - 11:00 AM	53.1	70.9	48.5
11:00 AM - 12:00 PM	54.6	82.4	48.1
12:00 PM - 01:00 PM	52.8	72.9	47.9

Leq Average 24 hrs. (dB(A)) : 53.1  
Lmax (dB(A)) : 94.2  
L90 (dB(A)) : 49.1  
Ldn (dB(A)) : 58.3  
Standard (dB(A)) : 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakyoung  
Scientist (3)

Approved by

*Supot S.*  
Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786326-1

Page 1 of 1

Sample Number : 2390373-2  
Parameter : Noise (Leq 24 hrs.)  
Location : ถนนพหลโยธิน (GPS 47P 0711564, 1611950)  
Measurement Date : Sep 07 - Sep 08, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658244

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	52.1	78.1	44.5
02:00 PM - 03:00 PM	50.7	75.1	44.8
03:00 PM - 04:00 PM	49.5	68.8	45.9
04:00 PM - 05:00 PM	52.6	77.7	45.0
05:00 PM - 06:00 PM	50.3	74.4	46.5
06:00 PM - 07:00 PM	51.6	78.5	45.9
07:00 PM - 08:00 PM	49.4	74.2	45.7
08:00 PM - 09:00 PM	49.7	68.7	46.4
09:00 PM - 10:00 PM	53.0	74.2	47.5
10:00 PM - 11:00 PM	50.2	69.4	47.7
11:00 PM - 12:00 AM	50.0	74.2	46.9
12:00 AM - 01:00 AM	49.0	77.2	45.6
01:00 AM - 02:00 AM	48.5	65.3	45.6
02:00 AM - 03:00 AM	50.5	65.6	46.3
03:00 AM - 04:00 AM	55.4	79.7	53.0
04:00 AM - 05:00 AM	53.9	74.2	48.7
05:00 AM - 06:00 AM	49.1	68.6	47.4
06:00 AM - 07:00 AM	49.8	62.2	47.3
07:00 AM - 08:00 AM	54.4	71.8	50.1
08:00 AM - 09:00 AM	56.0	77.7	49.6
09:00 AM - 10:00 AM	58.9	85.5	47.7
10:00 AM - 11:00 AM	54.9	78.5	47.4
11:00 AM - 12:00 PM	52.2	72.7	46.8
12:00 PM - 01:00 PM	48.5	69.8	45.3

Leq Average 24 hrs. (dB(A)) : 52.6  
Lmax (dB(A)) : 85.5  
L90 (dB(A)) : 46.5  
Ldn (dB(A)) : 58.1  
Standard (dB(A)) : 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakyoung  
Scientist (3)

Approved by

*Supot S.*  
Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786327-1

Page 1 of 1

Sample Number : 2390373-3  
Parameter : Noise (Leq 24 hrs.)  
Location : ฐานขุดน้ำมันดิบ (GPS 47P 0711564, 1611950)  
Measurement Date : Sep 08 - Sep 09, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658244

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	49.9	69.0	44.7
02:00 PM - 03:00 PM	48.0	71.7	44.2
03:00 PM - 04:00 PM	48.9	77.3	44.2
04:00 PM - 05:00 PM	48.2	70.9	43.9
05:00 PM - 06:00 PM	49.5	74.0	44.3
06:00 PM - 07:00 PM	52.1	71.9	44.9
07:00 PM - 08:00 PM	55.1	85.1	44.8
08:00 PM - 09:00 PM	51.0	69.7	47.8
09:00 PM - 10:00 PM	49.9	68.8	48.2
10:00 PM - 11:00 PM	50.4	72.7	48.1
11:00 PM - 12:00 AM	51.5	81.8	47.3
12:00 AM - 01:00 AM	48.4	62.4	47.1
01:00 AM - 02:00 AM	49.4	66.4	47.7
02:00 AM - 03:00 AM	48.9	72.8	47.1
03:00 AM - 04:00 AM	48.0	64.9	46.8
04:00 AM - 05:00 AM	47.7	65.9	46.4
05:00 AM - 06:00 AM	48.2	67.0	46.8
06:00 AM - 07:00 AM	48.4	61.3	47.1
07:00 AM - 08:00 AM	54.1	77.6	48.7
08:00 AM - 09:00 AM	52.7	76.2	48.4
09:00 AM - 10:00 AM	51.7	71.8	47.5
10:00 AM - 11:00 AM	51.1	69.6	45.7
11:00 AM - 12:00 PM	51.4	74.4	46.3
12:00 PM - 01:00 PM	49.7	71.5	45.2

Leq Average 24 hrs. (dB(A))

50.7

Lmax (dB(A))

85.1

L90 (dB(A))

46.8

Ldn (dB(A))

56.0

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*

Orawan Rakyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteht  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786328-1

Page 1 of 1

Sample Number : 2390373-4  
Parameter : Noise (Leq 24 hrs.)  
Location : ฐานขุดน้ำมันดิบ (GPS 47P 0711564, 1611950)  
Measurement Date : Sep 09 - Sep 10, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658244

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	49.6	76.2	46.3
02:00 PM - 03:00 PM	49.8	69.8	46.0
03:00 PM - 04:00 PM	48.7	72.0	46.1
04:00 PM - 05:00 PM	50.3	71.5	46.8
05:00 PM - 06:00 PM	53.9	81.7	48.6
06:00 PM - 07:00 PM	52.1	72.6	47.8
07:00 PM - 08:00 PM	53.8	74.2	47.7
08:00 PM - 09:00 PM	51.3	72.6	48.0
09:00 PM - 10:00 PM	53.7	74.4	48.8
10:00 PM - 11:00 PM	52.1	66.8	50.1
11:00 PM - 12:00 AM	51.4	73.5	49.6
12:00 AM - 01:00 AM	50.8	63.7	49.4
01:00 AM - 02:00 AM	50.1	65.9	48.5
02:00 AM - 03:00 AM	49.3	60.0	48.2
03:00 AM - 04:00 AM	49.4	59.5	48.2
04:00 AM - 05:00 AM	49.2	58.5	48.1
05:00 AM - 06:00 AM	49.3	63.1	48.1
06:00 AM - 07:00 AM	55.3	76.1	49.0
07:00 AM - 08:00 AM	51.7	70.4	49.8
08:00 AM - 09:00 AM	51.0	68.2	48.9
09:00 AM - 10:00 AM	51.9	69.1	49.4
10:00 AM - 11:00 AM	53.6	76.1	49.3
11:00 AM - 12:00 PM	51.8	74.3	48.5
12:00 PM - 01:00 PM	52.3	69.5	49.0

Leq Average 24 hrs. (dB(A))

51.7

Lmax (dB(A))

81.7

L90 (dB(A))

48.5

Ldn (dB(A))

57.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*

Orawan Rakyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteht  
Section Head

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S:\Reports\_Air Noise rpt ( 6:11PM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786329-1

Page 1 of 1

Sample Number : 2390373-5  
Parameter : Noise (Leq 24 hrs.)  
Location : ซอยหมู่บ้านจตุร (GPS 47P 0711564, 1611950)  
Measurement Date : Sep 10 - Sep 11, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658244

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	51.7	74.3	47.4
02:00 PM - 03:00 PM	52.5	72.3	47.6
03:00 PM - 04:00 PM	54.0	68.3	50.0
04:00 PM - 05:00 PM	53.7	79.3	50.6
05:00 PM - 06:00 PM	53.9	76.4	50.5
06:00 PM - 07:00 PM	53.9	73.2	50.5
07:00 PM - 08:00 PM	54.3	76.2	50.2
08:00 PM - 09:00 PM	51.1	65.7	48.9
09:00 PM - 10:00 PM	50.0	67.7	48.8
10:00 PM - 11:00 PM	52.2	78.3	48.6
11:00 PM - 12:00 AM	50.4	61.5	48.8
12:00 AM - 01:00 AM	50.0	62.5	48.5
01:00 AM - 02:00 AM	50.4	65.6	48.3
02:00 AM - 03:00 AM	55.9	69.4	52.2
03:00 AM - 04:00 AM	53.7	67.5	50.6
04:00 AM - 05:00 AM	50.6	63.6	49.3
05:00 AM - 06:00 AM	50.7	63.7	49.7
06:00 AM - 07:00 AM	53.6	73.8	50.5
07:00 AM - 08:00 AM	53.8	75.6	51.2
08:00 AM - 09:00 AM	55.0	80.9	50.6
09:00 AM - 10:00 AM	56.4	81.5	50.6
10:00 AM - 11:00 AM	51.8	70.6	48.1
11:00 AM - 12:00 PM	52.8	72.2	47.8
12:00 PM - 01:00 PM	52.6	73.0	48.4
Leq Average 24 hrs. (dB(A))	53.1		
Lmax (dB(A))		81.5	
L90 (dB(A))			49.3
Ldn (dB(A))	59.0		
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

Technical Management

*Orawan R.*  
Orawan Rakkyong  
Scientist (3)

Approved by

*Supt S.*  
Supot Salamteh  
Section Head

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S:\Reports\Air Noise.rpt ( 6:11PM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786330-1

Page 1 of 1

Sample Number : 2390373-6  
Parameter : Noise (Leq 24 hrs.)  
Location : ซอยหมู่บ้านจตุร (GPS 47P 0711564, 1611950)  
Measurement Date : Sep 11 - Sep 12, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658244

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	52.7	72.1	48.4
02:00 PM - 03:00 PM	50.9	60.4	46.6
03:00 PM - 04:00 PM	50.6	67.8	46.6
04:00 PM - 05:00 PM	52.6	69.4	46.2
05:00 PM - 06:00 PM	53.1	72.7	49.1
06:00 PM - 07:00 PM	54.3	74.9	51.2
07:00 PM - 08:00 PM	54.7	79.5	49.4
08:00 PM - 09:00 PM	51.6	68.7	49.0
09:00 PM - 10:00 PM	51.5	68.6	48.9
10:00 PM - 11:00 PM	51.3	66.2	48.8
11:00 PM - 12:00 AM	52.6	66.5	48.5
12:00 AM - 01:00 AM	49.5	61.8	47.3
01:00 AM - 02:00 AM	50.6	63.8	48.1
02:00 AM - 03:00 AM	49.5	56.2	47.8
03:00 AM - 04:00 AM	48.8	60.3	47.6
04:00 AM - 05:00 AM	49.2	55.5	47.9
05:00 AM - 06:00 AM	49.4	63.0	47.9
06:00 AM - 07:00 AM	55.3	77.9	48.7
07:00 AM - 08:00 AM	52.3	75.7	49.1
08:00 AM - 09:00 AM	52.3	73.1	48.9
09:00 AM - 10:00 AM	52.3	69.5	48.2
10:00 AM - 11:00 AM	58.5	73.0	50.4
11:00 AM - 12:00 PM	66.5	83.5	55.1
12:00 PM - 01:00 PM	53.9	70.7	47.6
Leq Average 24 hrs. (dB(A))	55.7		
Lmax (dB(A))		83.5	
L90 (dB(A))			48.4
Ldn (dB(A))	59.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakkyong  
Scientist (3)

Approved by

*Supt S.*  
Supot Salamteh  
Section Head

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S:\Reports\Air Noise.rpt ( 6:11PM)





## Analysis / Test Report

Client : Gulf 3P TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786331-1

Page 1 of 1

Sample Number : 2390373-7  
Parameter : Noise (Leq 24 hrs.)  
Location : ซอยบ้านจั่น (GPS 47P 0711564, 1611950)  
Measurement Date : Sep 12 - Sep 13, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658244

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	58.2	77.1	49.3
02:00 PM - 03:00 PM	72.8	92.3	49.1
03:00 PM - 04:00 PM	56.8	75.1	48.6
04:00 PM - 05:00 PM	54.6	74.0	46.9
05:00 PM - 06:00 PM	53.4	82.1	45.9
06:00 PM - 07:00 PM	56.5	82.6	48.0
07:00 PM - 08:00 PM	56.7	79.7	49.4
08:00 PM - 09:00 PM	52.5	63.8	50.2
09:00 PM - 10:00 PM	52.2	68.0	49.7
10:00 PM - 11:00 PM	51.9	68.1	49.5
11:00 PM - 12:00 AM	50.5	65.6	49.2
12:00 AM - 01:00 AM	50.8	68.1	48.3
01:00 AM - 02:00 AM	49.9	62.9	48.7
02:00 AM - 03:00 AM	49.5	61.6	47.9
03:00 AM - 04:00 AM	49.6	56.3	48.2
04:00 AM - 05:00 AM	49.4	64.6	48.0
05:00 AM - 06:00 AM	49.9	62.2	48.6
06:00 AM - 07:00 AM	54.1	75.6	49.7
07:00 AM - 08:00 AM	52.8	82.0	49.2
08:00 AM - 09:00 AM	55.8	79.1	49.2
09:00 AM - 10:00 AM	55.5	78.9	47.7
10:00 AM - 11:00 AM	59.1	79.7	48.8
11:00 AM - 12:00 PM	52.3	71.0	46.9
12:00 PM - 01:00 PM	52.3	75.9	47.4

Leq Average 24 hrs. (dB(A)) : 60.2  
Lmax (dB(A)) : 92.3  
L90 (dB(A)) : 48.6  
Ldn (dB(A)) : 61.7  
Standard (dB(A)) : 70  
Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*  
Supot Salamteah  
Section Head

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## Analysis / Test Report

Client : Gulf 3P TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786332-1

Page 1 of 1

Sample Number : 2390373-8  
Parameter : Noise (Leq 24 hrs.)  
Location : ซอยบ้านจั่น (GPS 47P 0712001, 1612815)  
Measurement Date : Sep 06 - Sep 07, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658243

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	59.8	84.2	49.8
03:00 PM - 04:00 PM	63.3	90.3	50.1
04:00 PM - 05:00 PM	64.7	68.4	47.9
05:00 PM - 06:00 PM	51.4	67.5	47.7
06:00 PM - 07:00 PM	52.4	68.5	49.3
07:00 PM - 08:00 PM	52.1	69.3	49.3
08:00 PM - 09:00 PM	51.8	68.8	49.6
09:00 PM - 10:00 PM	51.2	65.7	48.1
10:00 PM - 11:00 PM	50.3	69.6	47.5
11:00 PM - 12:00 AM	49.4	68.0	45.8
12:00 AM - 01:00 AM	47.4	63.8	44.4
01:00 AM - 02:00 AM	48.8	72.8	43.5
02:00 AM - 03:00 AM	47.0	63.2	43.1
03:00 AM - 04:00 AM	44.7	57.6	42.7
04:00 AM - 05:00 AM	47.2	64.0	44.4
05:00 AM - 06:00 AM	48.8	68.5	44.4
06:00 AM - 07:00 AM	53.3	78.1	46.8
07:00 AM - 08:00 AM	68.3	97.5	52.8
08:00 AM - 09:00 AM	63.2	85.8	48.0
09:00 AM - 10:00 AM	51.5	72.9	47.2
10:00 AM - 11:00 AM	58.5	81.0	48.4
11:00 AM - 12:00 PM	72.1	110.7	51.4
12:00 PM - 01:00 PM	70.1	102.2	48.4
01:00 PM - 02:00 PM	58.5	79.4	49.9

Leq Average 24 hrs. (dB(A)) : 62.7  
Lmax (dB(A)) : 110.7  
L90 (dB(A)) : 47.9  
Ldn (dB(A)) : 63.3  
Standard (dB(A)) : 70  
Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*  
Supot Salamteah  
Section Head

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S:\Reports\_Air Noise.rpt ( 6:12PM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786333-1

Page 1 of 1

Sample Number : 2390373-9  
Parameter : Noise (Leq 24 hrs.)  
Location : ซอยสนามกีฬาเทศบาล (GPS 47P 0712001, 1612815)  
Measurement Date : Sep 07 - Sep 08, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658243

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	62.4	87.3	52.4
03:00 PM - 04:00 PM	63.0	87.5	48.5
04:00 PM - 05:00 PM	57.3	80.9	48.8
05:00 PM - 06:00 PM	55.2	77.8	48.4
06:00 PM - 07:00 PM	52.2	73.1	48.5
07:00 PM - 08:00 PM	52.5	72.5	49.3
08:00 PM - 09:00 PM	53.1	71.8	50.2
09:00 PM - 10:00 PM	52.6	71.5	49.5
10:00 PM - 11:00 PM	51.8	69.6	47.6
11:00 PM - 12:00 AM	50.8	76.9	46.0
12:00 AM - 01:00 AM	48.8	71.3	44.7
01:00 AM - 02:00 AM	52.1	70.5	48.0
02:00 AM - 03:00 AM	51.7	69.0	47.1
03:00 AM - 04:00 AM	47.2	62.0	45.3
04:00 AM - 05:00 AM	47.8	65.7	44.8
05:00 AM - 06:00 AM	48.5	63.9	46.4
06:00 AM - 07:00 AM	51.5	80.3	47.2
07:00 AM - 08:00 AM	65.8	90.7	51.8
08:00 AM - 09:00 AM	66.7	91.8	50.0
09:00 AM - 10:00 AM	52.8	77.8	48.5
10:00 AM - 11:00 AM	61.1	95.3	50.3
11:00 AM - 12:00 PM	59.5	89.9	51.0
12:00 PM - 01:00 PM	63.2	86.8	48.1
01:00 PM - 02:00 PM	58.2	87.9	48.3

Leq Average 24 hrs. (dB(A)) : 59.2  
Lmax (dB(A)) : 95.3  
L90 (dB(A)) : 48.4  
Ldn (dB(A)) : 60.8  
Standard (dB(A)) : 70  
Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Orawan R.

Orawan Rakhyong  
Scientist (3)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786333-1

Page 1 of 1

Sample Number : 2390373-10  
Parameter : Noise (Leq 24 hrs.)  
Location : ซอยสนามกีฬาเทศบาล (GPS 47P 0712001, 1612815)  
Measurement Date : Sep 08 - Sep 09, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658243

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	70.4	86.7	48.9
03:00 PM - 04:00 PM	60.1	83.8	47.1
04:00 PM - 05:00 PM	52.3	79.9	46.7
05:00 PM - 06:00 PM	52.2	67.1	47.4
06:00 PM - 07:00 PM	52.2	68.9	48.4
07:00 PM - 08:00 PM	53.5	69.3	51.0
08:00 PM - 09:00 PM	54.6	77.8	51.4
09:00 PM - 10:00 PM	53.4	76.9	50.6
10:00 PM - 11:00 PM	51.5	72.1	48.3
11:00 PM - 12:00 AM	52.9	75.2	48.2
12:00 AM - 01:00 AM	51.5	76.0	47.6
01:00 AM - 02:00 AM	49.1	64.2	45.5
02:00 AM - 03:00 AM	49.3	64.6	45.1
03:00 AM - 04:00 AM	47.7	67.9	44.1
04:00 AM - 05:00 AM	46.5	58.5	44.4
05:00 AM - 06:00 AM	49.2	66.9	45.7
06:00 AM - 07:00 AM	51.0	65.5	48.1
07:00 AM - 08:00 AM	51.2	66.3	47.5
08:00 AM - 09:00 AM	49.6	70.4	45.7
09:00 AM - 10:00 AM	50.6	73.8	45.3
10:00 AM - 11:00 AM	49.0	75.3	44.9
11:00 AM - 12:00 PM	49.5	70.2	44.7
12:00 PM - 01:00 PM	49.1	77.1	44.4
01:00 PM - 02:00 PM	49.7	72.4	44.8

Leq Average 24 hrs. (dB(A)) : 57.9  
Lmax (dB(A)) : 86.7  
L90 (dB(A)) : 46.7  
Ldn (dB(A)) : 59.9  
Standard (dB(A)) : 70  
Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Orawan R.

Orawan Rakhyong  
Scientist (3)

Approved by

Supt S

Supot Salamteh  
Section Head

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S:\Reports\Air Noise.rpt ( 6:12PM)





## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786335-1

Page 1 of 1

Sample Number : 2390373-11  
Parameter : Noise (Leq 24 hrs.)  
Location : ชุมชนบ้านศาลเจ้า (GPS 47P 0712001, 1612815)  
Measurement Date : Sep 09 - Sep 10, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658243

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	48.7	70.0	44.2
03:00 PM - 04:00 PM	50.0	69.4	45.9
04:00 PM - 05:00 PM	50.3	67.2	46.7
05:00 PM - 06:00 PM	55.5	88.3	47.2
06:00 PM - 07:00 PM	52.6	79.4	48.8
07:00 PM - 08:00 PM	52.6	71.7	49.1
08:00 PM - 09:00 PM	51.9	76.4	49.2
09:00 PM - 10:00 PM	52.0	67.5	50.1
10:00 PM - 11:00 PM	51.3	69.1	49.5
11:00 PM - 12:00 AM	51.0	68.3	48.2
12:00 AM - 01:00 AM	49.1	67.2	46.4
01:00 AM - 02:00 AM	48.7	63.3	46.0
02:00 AM - 03:00 AM	48.2	70.7	44.9
03:00 AM - 04:00 AM	47.9	66.8	45.2
04:00 AM - 05:00 AM	47.5	63.9	45.2
05:00 AM - 06:00 AM	50.1	76.3	46.2
06:00 AM - 07:00 AM	50.7	67.4	47.6
07:00 AM - 08:00 AM	51.1	78.2	47.0
08:00 AM - 09:00 AM	50.4	72.2	46.8
09:00 AM - 10:00 AM	50.3	70.8	46.5
10:00 AM - 11:00 AM	52.8	75.2	46.4
11:00 AM - 12:00 PM	49.4	68.6	46.0
12:00 PM - 01:00 PM	50.0	69.7	45.4
01:00 PM - 02:00 PM	52.8	79.2	46.1

Leq Average 24 hrs. (dB(A)) : 51.0  
Lmax (dB(A)) : 88.3  
L90 (dB(A)) : 46.4  
Ldn (dB(A)) : 56.4  
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakhyong  
Scientist (3)

Approved by

*Supt S.*  
Supot Salanteh  
Section Head

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S:\Reports\_Air Noise.rpt ( 8:14PM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786336-1

Page 1 of 1

Sample Number : 2390373-12  
Parameter : Noise (Leq 24 hrs.)  
Location : ชุมชนบ้านศาลเจ้า (GPS 47P 0712001, 1612815)  
Measurement Date : Sep 10 - Sep 11, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658243

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	51.5	67.8	47.3
03:00 PM - 04:00 PM	50.7	68.5	47.8
04:00 PM - 05:00 PM	51.2	70.6	47.7
05:00 PM - 06:00 PM	52.7	73.6	49.3
06:00 PM - 07:00 PM	52.5	72.2	49.6
07:00 PM - 08:00 PM	51.7	66.6	48.5
08:00 PM - 09:00 PM	52.8	72.7	49.7
09:00 PM - 10:00 PM	52.9	77.4	49.1
10:00 PM - 11:00 PM	49.2	66.1	46.2
11:00 PM - 12:00 AM	48.8	66.2	46.0
12:00 AM - 01:00 AM	51.5	69.7	46.1
01:00 AM - 02:00 AM	52.5	65.4	50.1
02:00 AM - 03:00 AM	49.4	64.5	47.2
03:00 AM - 04:00 AM	47.1	58.2	45.2
04:00 AM - 05:00 AM	47.2	63.8	45.4
05:00 AM - 06:00 AM	51.5	76.7	47.4
06:00 AM - 07:00 AM	64.4	95.5	49.4
07:00 AM - 08:00 AM	73.6	107.4	53.5
08:00 AM - 09:00 AM	63.2	90.3	49.3
09:00 AM - 10:00 AM	54.7	79.5	49.4
10:00 AM - 11:00 AM	64.4	73.0	62.7
11:00 AM - 12:00 PM	65.9	97.1	53.6
12:00 PM - 01:00 PM	64.9	88.0	51.6
01:00 PM - 02:00 PM	60.9	79.3	50.4

Leq Average 24 hrs. (dB(A)) : 62.3  
Lmax (dB(A)) : 107.4  
L90 (dB(A)) : 49.1  
Ldn (dB(A)) : 64.8  
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakhyong  
Scientist (3)

Approved by

*Supt S.*  
Supot Salanteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786337-1

Page 1 of 1

Sample Number : 2390373-13  
Parameter : Noise (Leq 24 hrs.)  
Location : เขตเทศบาลเมือง (GPS 47P 0712001, 1612815)  
Measurement Date : Sep 11 - Sep 12, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658243

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	62.1	82.2	53.0
03:00 PM - 04:00 PM	56.3	77.6	48.4
04:00 PM - 05:00 PM	54.9	74.8	49.0
05:00 PM - 06:00 PM	53.8	72.1	49.7
06:00 PM - 07:00 PM	53.4	71.7	50.5
07:00 PM - 08:00 PM	51.9	67.6	49.8
08:00 PM - 09:00 PM	57.5	68.0	49.7
09:00 PM - 10:00 PM	56.9	72.5	49.9
10:00 PM - 11:00 PM	53.9	67.8	49.5
11:00 PM - 12:00 AM	51.1	68.7	47.9
12:00 AM - 01:00 AM	50.1	66.9	47.0
01:00 AM - 02:00 AM	49.6	62.7	47.6
02:00 AM - 03:00 AM	49.5	64.9	46.5
03:00 AM - 04:00 AM	46.5	64.0	44.2
04:00 AM - 05:00 AM	47.5	69.3	44.7
05:00 AM - 06:00 AM	50.3	71.2	46.1
06:00 AM - 07:00 AM	54.4	76.7	49.2
07:00 AM - 08:00 AM	73.0	105.8	52.6
08:00 AM - 09:00 AM	63.6	91.9	49.7
09:00 AM - 10:00 AM	57.1	94.9	49.5
10:00 AM - 11:00 AM	55.7	78.1	49.8
11:00 AM - 12:00 PM	62.6	89.5	53.0
12:00 PM - 01:00 PM	70.1	90.2	49.5
01:00 PM - 02:00 PM	65.1	92.3	50.8

Leq Average 24 hrs. (dB(A)) : 62.6  
Lmax (dB(A)) : 105.8  
L90 (dB(A)) : 49.5  
Ldn (dB(A)) : 63.5  
Standard (dB(A)) : 70  
Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ไต่จากค่าการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*

Orawan Rakkyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteht  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786338-1

Page 1 of 1

Sample Number : 2390373-14  
Parameter : Noise (Leq 24 hrs.)  
Location : เขตเทศบาลเมือง (GPS 47P 0712001, 1612815)  
Measurement Date : Sep 12 - Sep 13, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 658243

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	65.1	86.6	52.9
03:00 PM - 04:00 PM	58.6	81.4	49.0
04:00 PM - 05:00 PM	55.3	83.4	48.1
05:00 PM - 06:00 PM	53.6	76.0	48.9
06:00 PM - 07:00 PM	54.1	84.1	50.1
07:00 PM - 08:00 PM	53.1	70.1	50.7
08:00 PM - 09:00 PM	54.2	69.7	51.2
09:00 PM - 10:00 PM	61.0	69.3	49.5
10:00 PM - 11:00 PM	61.5	70.3	48.1
11:00 PM - 12:00 AM	62.9	70.1	47.4
12:00 AM - 01:00 AM	64.7	68.4	47.9
01:00 AM - 02:00 AM	60.2	68.4	45.6
02:00 AM - 03:00 AM	47.4	67.4	45.1
03:00 AM - 04:00 AM	46.5	62.0	44.4
04:00 AM - 05:00 AM	47.6	63.2	45.0
05:00 AM - 06:00 AM	50.0	66.5	47.5
06:00 AM - 07:00 AM	53.5	85.0	48.8
07:00 AM - 08:00 AM	73.8	112.5	52.0
08:00 AM - 09:00 AM	68.7	89.9	48.7
09:00 AM - 10:00 AM	55.8	79.7	49.8
10:00 AM - 11:00 AM	59.2	86.6	50.7
11:00 AM - 12:00 PM	63.4	89.8	52.2
12:00 PM - 01:00 PM	66.4	86.2	48.7
01:00 PM - 02:00 PM	64.9	88.8	50.4

Leq Average 24 hrs. (dB(A)) : 63.7  
Lmax (dB(A)) : 112.5  
L90 (dB(A)) : 48.8  
Ldn (dB(A)) : 67.2  
Standard (dB(A)) : 70  
Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ไต่จากค่าการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*

Orawan Rakkyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteht  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23125109

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number: 2836813-1

Page 1 of 1

Sample Number : 23125109-1  
Parameter : Noise (Leq 24 hrs.)  
Location : สถานีวิทยุโทรทัศน์ (GPS 47P 0710198, 1609588)  
Measurement Date : Oct 31 - Nov 01, 2023  
Measurement by : Teeravut Sukdee  
Sound Level meter : Serial No. 658241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.9	98.1	45.6
10:00 AM - 11:00 AM	54.2	76.7	46.9
11:00 AM - 12:00 PM	53.0	81.5	46.1
12:00 PM - 01:00 PM	51.3	67.4	45.1
01:00 PM - 02:00 PM	53.2	79.1	44.5
02:00 PM - 03:00 PM	53.2	75.6	44.2
03:00 PM - 04:00 PM	53.3	76.4	45.3
04:00 PM - 05:00 PM	53.9	77.9	44.9
05:00 PM - 06:00 PM	53.9	76.2	45.5
06:00 PM - 07:00 PM	56.8	80.9	44.6
07:00 PM - 08:00 PM	51.3	72.2	43.4
08:00 PM - 09:00 PM	51.9	77.6	42.8
09:00 PM - 10:00 PM	49.5	70.4	42.7
10:00 PM - 11:00 PM	49.9	71.3	43.2
11:00 PM - 12:00 AM	48.6	68.1	44.1
12:00 AM - 01:00 AM	50.0	71.4	44.3
01:00 AM - 02:00 AM	47.2	70.0	40.5
02:00 AM - 03:00 AM	48.4	68.9	41.0
03:00 AM - 04:00 AM	49.9	66.2	42.6
04:00 AM - 05:00 AM	47.7	65.0	41.5
05:00 AM - 06:00 AM	55.4	77.9	42.3
06:00 AM - 07:00 AM	51.3	77.7	45.0
07:00 AM - 08:00 AM	54.6	71.2	48.8
08:00 AM - 09:00 AM	54.8	76.3	47.9

Leq Average 24 hrs. (dB(A)) : 53.2  
Lmax (dB(A)) : 98.1  
L90 (dB(A)) : 44.3  
Ldn (dB(A)) : 57.7

Standard (dB(A)) : 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง กำหนดมาตรฐานการวัดเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

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Orawan Rakpong  
Scientist (3)

Approved by

*Supt S.*  
Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23125109

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number: 2836814-1

Page 1 of 1

Sample Number : 23125109-2  
Parameter : Noise (Leq 24 hrs.)  
Location : สถานีวิทยุโทรทัศน์ (GPS 47P 0710198, 1609588)  
Measurement Date : Nov 01 - Nov 02, 2023  
Measurement by : Teeravut Sukdee  
Sound Level meter : Serial No. 658241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.2	74.4	47.5
10:00 AM - 11:00 AM	54.0	74.5	45.5
11:00 AM - 12:00 PM	52.3	73.5	44.9
12:00 PM - 01:00 PM	52.9	70.5	45.1
01:00 PM - 02:00 PM	51.9	75.0	43.6
02:00 PM - 03:00 PM	51.5	69.7	43.9
03:00 PM - 04:00 PM	52.9	78.6	45.4
04:00 PM - 05:00 PM	52.3	71.6	45.6
05:00 PM - 06:00 PM	53.7	76.1	45.9
06:00 PM - 07:00 PM	54.5	76.3	45.9
07:00 PM - 08:00 PM	51.6	72.9	45.4
08:00 PM - 09:00 PM	50.7	71.7	44.2
09:00 PM - 10:00 PM	51.9	87.9	44.5
10:00 PM - 11:00 PM	52.5	77.0	42.1
11:00 PM - 12:00 AM	50.4	75.4	42.5
12:00 AM - 01:00 AM	45.1	64.9	40.6
01:00 AM - 02:00 AM	44.7	65.3	39.9
02:00 AM - 03:00 AM	44.3	68.3	40.0
03:00 AM - 04:00 AM	46.5	68.1	40.0
04:00 AM - 05:00 AM	49.4	75.6	40.8
05:00 AM - 06:00 AM	53.9	78.0	43.4
06:00 AM - 07:00 AM	50.5	72.9	43.2
07:00 AM - 08:00 AM	53.6	74.7	46.0
08:00 AM - 09:00 AM	53.0	75.1	44.7

Leq Average 24 hrs. (dB(A)) : 52.0  
Lmax (dB(A)) : 87.9  
L90 (dB(A)) : 44.2  
Ldn (dB(A)) : 56.8

Standard (dB(A)) : 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง กำหนดมาตรฐานการวัดเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23125109

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number: 2836815-1

Page 1 of 1

Sample Number 23125109-3  
 Parameter Noise (Leq 24 hrs.)  
 Location ชุมชนบ้านหนองบัว (GPS 47P 0710198, 1609588)  
 Measurement Date Nov 02 - Nov 03, 2023  
 Measurement by Teeravut Sukdee  
 Sound Level meter Serial No. 658241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	52.1	72.6	43.8
10:00 AM - 11:00 AM	52.4	78.0	43.8
11:00 AM - 12:00 PM	54.0	92.1	40.5
12:00 PM - 01:00 PM	51.5	73.6	41.0
01:00 PM - 02:00 PM	52.1	75.9	40.0
02:00 PM - 03:00 PM	50.4	70.1	40.2
03:00 PM - 04:00 PM	52.4	80.8	41.6
04:00 PM - 05:00 PM	51.8	75.4	42.3
05:00 PM - 06:00 PM	53.3	75.0	44.7
06:00 PM - 07:00 PM	55.9	79.4	45.6
07:00 PM - 08:00 PM	52.4	77.3	42.9
08:00 PM - 09:00 PM	51.4	66.0	45.1
09:00 PM - 10:00 PM	51.9	67.6	47.0
10:00 PM - 11:00 PM	49.1	67.6	41.5
11:00 PM - 12:00 AM	49.7	68.1	39.9
12:00 AM - 01:00 AM	44.8	66.2	39.0
01:00 AM - 02:00 AM	51.6	77.4	40.1
02:00 AM - 03:00 AM	45.5	71.0	40.2
03:00 AM - 04:00 AM	50.9	75.0	39.4
04:00 AM - 05:00 AM	47.2	66.4	40.0
05:00 AM - 06:00 AM	56.1	78.8	42.0
06:00 AM - 07:00 AM	53.5	76.0	43.2
07:00 AM - 08:00 AM	52.9	74.5	44.7
08:00 AM - 09:00 AM	53.0	75.8	42.9

Leq Average 24 hrs. (dB(A)) 52.2

Lmax (dB(A)) 92.1

L90 (dB(A)) 41.6

Ldn (dB(A)) 57.9

Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23125109

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number: 2836816-1

Page 1 of 1

Sample Number 23125109-4  
 Parameter Noise (Leq 24 hrs.)  
 Location ชุมชนบ้านหนองบัว (GPS 47P 0710198, 1609588)  
 Measurement Date Nov 03 - Nov 04, 2023  
 Measurement by Teeravut Sukdee  
 Sound Level meter Serial No. 658241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	51.6	72.2	41.7
10:00 AM - 11:00 AM	52.7	78.8	40.7
11:00 AM - 12:00 PM	52.3	91.2	41.3
12:00 PM - 01:00 PM	51.2	71.6	40.9
01:00 PM - 02:00 PM	52.9	82.5	39.9
02:00 PM - 03:00 PM	52.2	78.2	41.6
03:00 PM - 04:00 PM	50.1	72.6	39.3
04:00 PM - 05:00 PM	54.9	78.3	45.1
05:00 PM - 06:00 PM	54.4	75.0	47.1
06:00 PM - 07:00 PM	58.0	86.6	47.1
07:00 PM - 08:00 PM	51.7	73.0	46.3
08:00 PM - 09:00 PM	54.5	74.3	48.9
09:00 PM - 10:00 PM	51.7	68.1	46.4
10:00 PM - 11:00 PM	51.3	71.7	44.3
11:00 PM - 12:00 AM	51.2	74.0	45.0
12:00 AM - 01:00 AM	51.7	72.8	43.8
01:00 AM - 02:00 AM	48.6	74.5	41.5
02:00 AM - 03:00 AM	50.2	74.2	41.0
03:00 AM - 04:00 AM	50.1	63.9	43.7
04:00 AM - 05:00 AM	52.3	75.7	49.1
05:00 AM - 06:00 AM	56.2	79.0	45.1
06:00 AM - 07:00 AM	54.2	77.9	45.2
07:00 AM - 08:00 AM	55.2	77.8	45.1
08:00 AM - 09:00 AM	55.3	74.4	42.7

Leq Average 24 hrs. (dB(A)) 53.3

Lmax (dB(A)) 91.2

L90 (dB(A)) 43.8

Ldn (dB(A)) 59.0

Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เฝ้าระวังจากการทำงานของเครื่องจักร  
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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23125109  
Date Received : Nov 08, 2023  
Date Reported : Nov 15, 2023  
Report Number: 2836817-1

Page 1 of 1

Sample Number : 23125109-5  
Parameter : Noise (Leq 24 hrs.)  
Location : ซอยบ้านนาหนองบัว (GPS 47P 0710198, 1609588)  
Measurement Date : Nov 04 - Nov 05, 2023  
Measurement by : Teeravut Sukdee  
Sound Level meter : Serial No. 658241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	63.0	84.2	48.8
10:00 AM - 11:00 AM	51.8	72.2	42.8
11:00 AM - 12:00 PM	50.3	67.5	40.4
12:00 PM - 01:00 PM	52.4	75.6	41.2
01:00 PM - 02:00 PM	55.0	72.8	48.8
02:00 PM - 03:00 PM	56.9	69.7	53.8
03:00 PM - 04:00 PM	60.5	76.2	58.2
04:00 PM - 05:00 PM	62.4	70.9	60.6
05:00 PM - 06:00 PM	63.2	75.5	61.4
06:00 PM - 07:00 PM	62.3	78.7	59.9
07:00 PM - 08:00 PM	61.2	74.9	59.5
08:00 PM - 09:00 PM	60.8	77.3	58.6
09:00 PM - 10:00 PM	58.8	72.5	54.1
10:00 PM - 11:00 PM	54.9	74.1	51.3
11:00 PM - 12:00 AM	53.9	71.7	48.9
12:00 AM - 01:00 AM	51.6	66.4	49.2
01:00 AM - 02:00 AM	50.0	68.1	46.1
02:00 AM - 03:00 AM	57.0	77.0	46.0
03:00 AM - 04:00 AM	53.9	79.1	44.4
04:00 AM - 05:00 AM	53.8	77.9	46.9
05:00 AM - 06:00 AM	55.6	75.7	47.4
06:00 AM - 07:00 AM	54.3	76.7	46.1
07:00 AM - 08:00 AM	53.9	76.1	44.9
08:00 AM - 09:00 AM	52.9	78.0	43.7

Leq Average 24 hrs. (dB(A))

58.2

Lmax (dB(A))

84.2

L90 (dB(A))

48.8

Ldn (dB(A))

62.0

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการกวน และระดับเสียงที่ขีดจำกัดการประกอบกิจการ  
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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23125109  
Date Received : Nov 08, 2023  
Date Reported : Nov 15, 2023  
Report Number: 2836818-1

Page 1 of 1

Sample Number : 23125109-6  
Parameter : Noise (Leq 24 hrs.)  
Location : ซอยบ้านนาหนองบัว (GPS 47P 0710198, 1609588)  
Measurement Date : Nov 05 - Nov 06, 2023  
Measurement by : Teeravut Sukdee  
Sound Level meter : Serial No. 658241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.2	78.7	42.9
10:00 AM - 11:00 AM	60.4	90.6	51.2
11:00 AM - 12:00 PM	55.4	77.8	46.5
12:00 PM - 01:00 PM	51.6	71.3	43.5
01:00 PM - 02:00 PM	55.5	78.5	44.7
02:00 PM - 03:00 PM	54.7	82.6	47.0
03:00 PM - 04:00 PM	57.0	78.4	51.2
04:00 PM - 05:00 PM	56.0	80.9	49.7
05:00 PM - 06:00 PM	58.3	77.4	52.5
06:00 PM - 07:00 PM	54.7	72.7	49.2
07:00 PM - 08:00 PM	53.7	71.8	47.8
08:00 PM - 09:00 PM	53.4	72.1	43.8
09:00 PM - 10:00 PM	52.6	69.3	46.6
10:00 PM - 11:00 PM	47.9	79.6	42.5
11:00 PM - 12:00 AM	46.7	69.4	41.3
12:00 AM - 01:00 AM	46.7	66.1	41.2
01:00 AM - 02:00 AM	53.6	77.8	42.4
02:00 AM - 03:00 AM	56.8	77.2	44.0
03:00 AM - 04:00 AM	54.0	76.2	45.0
04:00 AM - 05:00 AM	54.6	78.9	45.2
05:00 AM - 06:00 AM	54.6	77.5	42.7
06:00 AM - 07:00 AM	51.5	74.8	42.3
07:00 AM - 08:00 AM	52.2	72.2	42.2
08:00 AM - 09:00 AM	51.1	69.0	41.2

Leq Average 24 hrs. (dB(A))

54.8

Lmax (dB(A))

90.6

L90 (dB(A))

44.0

Ldn (dB(A))

59.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการกวน และระดับเสียงที่ขีดจำกัดการประกอบกิจการ  
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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23125109

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number: 2836819-1

Page 1 of 1

Sample Number 23125109-7  
 Parameter Noise (Leq 24 hrs.)  
 Location ซอยนาบอนนาบอน (GPS 47P 0710196, 1609588)  
 Measurement Date Nov 06 - Nov 07, 2023  
 Measurement by Teeravut Sukdee  
 Sound Level meter Serial No. 658241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	51.9	72.7	41.4
10:00 AM - 11:00 AM	52.6	75.9	39.6
11:00 AM - 12:00 PM	52.5	71.2	41.4
12:00 PM - 01:00 PM	55.4	78.1	47.1
01:00 PM - 02:00 PM	52.8	73.3	47.3
02:00 PM - 03:00 PM	53.5	75.6	46.5
03:00 PM - 04:00 PM	56.0	79.6	46.9
04:00 PM - 05:00 PM	51.5	72.1	44.5
05:00 PM - 06:00 PM	51.3	69.1	45.0
06:00 PM - 07:00 PM	52.7	75.3	47.5
07:00 PM - 08:00 PM	50.0	67.9	46.2
08:00 PM - 09:00 PM	51.3	68.3	46.9
09:00 PM - 10:00 PM	51.9	71.0	44.3
10:00 PM - 11:00 PM	46.8	63.7	40.3
11:00 PM - 12:00 AM	48.8	74.2	40.1
12:00 AM - 01:00 AM	53.1	74.9	41.7
01:00 AM - 02:00 AM	52.0	76.5	43.1
02:00 AM - 03:00 AM	56.1	77.1	43.0
03:00 AM - 04:00 AM	53.9	78.3	43.2
04:00 AM - 05:00 AM	53.8	75.4	45.3
05:00 AM - 06:00 AM	54.3	77.1	43.9
06:00 AM - 07:00 AM	53.5	77.7	43.4
07:00 AM - 08:00 AM	50.8	78.8	42.6
08:00 AM - 09:00 AM	54.1	90.2	41.3

Leq Average 24 hrs. (dB(A)) 53.0  
 Lmax (dB(A)) 90.2  
 L90 (dB(A)) 43.4  
 Ldn (dB(A)) 59.5  
 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

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786346-1

Page 1 of 1

Sample Number 2390373-22  
 Parameter Noise (Leq 24 hrs.)  
 Location ซอยนาบอนนาบอน (GPS 47P 0710953, 1609766)  
 Measurement Date Sep 06 - Sep 07, 2023  
 Measurement by Prommee Sripanet  
 Sound Level meter Serial No. 858518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	46.1	72.8	41.6
01:00 PM - 02:00 PM	45.8	67.0	42.9
02:00 PM - 03:00 PM	47.1	70.5	42.7
03:00 PM - 04:00 PM	47.1	69.0	42.9
04:00 PM - 05:00 PM	47.8	70.7	44.0
05:00 PM - 06:00 PM	47.6	71.0	43.5
06:00 PM - 07:00 PM	56.3	66.8	47.5
07:00 PM - 08:00 PM	46.5	69.4	43.7
08:00 PM - 09:00 PM	48.2	72.1	45.5
09:00 PM - 10:00 PM	49.1	71.0	45.6
10:00 PM - 11:00 PM	48.1	69.4	43.9
11:00 PM - 12:00 AM	51.0	69.3	47.4
12:00 AM - 01:00 AM	53.7	71.7	49.4
01:00 AM - 02:00 AM	52.8	70.7	48.6
02:00 AM - 03:00 AM	49.9	64.7	42.9
03:00 AM - 04:00 AM	44.8	67.7	42.0
04:00 AM - 05:00 AM	52.0	61.3	42.1
05:00 AM - 06:00 AM	51.8	70.0	43.4
06:00 AM - 07:00 AM	46.7	66.4	43.6
07:00 AM - 08:00 AM	47.9	68.3	45.6
08:00 AM - 09:00 AM	48.5	66.8	45.9
09:00 AM - 10:00 AM	46.7	65.2	44.5
10:00 AM - 11:00 AM	46.2	65.5	43.4
11:00 AM - 12:00 PM	48.8	80.0	41.7

Leq Average 24 hrs. (dB(A)) 49.8  
 Lmax (dB(A)) 80.0  
 L90 (dB(A)) 43.6  
 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 และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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 Supot Salameh  
 Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786347-1

Page 1 of 1

Sample Number 2390373-23  
Parameter Noise (Leq 24 hrs.)  
Location ถนนตลิ่งชัน (GPS 47P 0710953, 1609766)  
Measurement Date Sep 07 - Sep 08, 2023  
Measurement by Prommee Sripatnet  
Sound Level meter Serial No. 858518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	42.8	67.8	40.1
01:00 PM - 02:00 PM	44.0	62.2	41.2
02:00 PM - 03:00 PM	46.2	65.6	41.9
03:00 PM - 04:00 PM	51.2	76.1	40.9
04:00 PM - 05:00 PM	45.4	75.2	41.2
05:00 PM - 06:00 PM	46.0	64.5	42.9
06:00 PM - 07:00 PM	55.2	70.7	43.1
07:00 PM - 08:00 PM	47.6	70.8	43.0
08:00 PM - 09:00 PM	48.6	68.8	45.2
09:00 PM - 10:00 PM	50.3	70.1	46.9
10:00 PM - 11:00 PM	51.6	68.7	49.2
11:00 PM - 12:00 AM	52.1	69.8	50.5
12:00 AM - 01:00 AM	53.2	70.0	48.2
01:00 AM - 02:00 AM	49.8	67.7	46.8
02:00 AM - 03:00 AM	50.2	60.2	46.0
03:00 AM - 04:00 AM	45.4	65.7	42.8
04:00 AM - 05:00 AM	53.3	65.4	42.7
05:00 AM - 06:00 AM	52.8	66.1	43.5
06:00 AM - 07:00 AM	52.2	67.8	46.7
07:00 AM - 08:00 AM	48.5	68.2	44.6
08:00 AM - 09:00 AM	50.2	67.1	45.7
09:00 AM - 10:00 AM	47.1	69.2	44.2
10:00 AM - 11:00 AM	45.9	63.1	43.7
11:00 AM - 12:00 PM	44.9	75.4	41.1

Leq Average 24 hrs. (dB(A))

50.1

Lmax (dB(A))

76.1

L90 (dB(A))

43.5

Ldn (dB(A))

57.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*

Orawan Rakhyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786348-1

Page 1 of 1

Sample Number 2390373-24  
Parameter Noise (Leq 24 hrs.)  
Location ถนนตลิ่งชัน (GPS 47P 0710953, 1609766)  
Measurement Date Sep 08 - Sep 09, 2023  
Measurement by Prommee Sripatnet  
Sound Level meter Serial No. 858518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	42.8	65.7	40.5
01:00 PM - 02:00 PM	43.1	66.7	40.1
02:00 PM - 03:00 PM	47.6	76.8	40.6
03:00 PM - 04:00 PM	43.3	66.3	40.5
04:00 PM - 05:00 PM	45.6	69.0	41.9
05:00 PM - 06:00 PM	45.4	71.2	41.3
06:00 PM - 07:00 PM	45.8	71.4	41.3
07:00 PM - 08:00 PM	47.6	70.3	44.8
08:00 PM - 09:00 PM	47.8	70.8	45.7
09:00 PM - 10:00 PM	48.6	70.4	45.8
10:00 PM - 11:00 PM	50.8	70.1	48.4
11:00 PM - 12:00 AM	51.0	70.0	49.0
12:00 AM - 01:00 AM	49.7	70.5	47.5
01:00 AM - 02:00 AM	47.5	69.7	43.3
02:00 AM - 03:00 AM	45.6	66.5	43.2
03:00 AM - 04:00 AM	44.1	70.7	41.2
04:00 AM - 05:00 AM	44.2	69.9	41.7
05:00 AM - 06:00 AM	50.2	69.1	43.5
06:00 AM - 07:00 AM	46.9	66.7	44.5
07:00 AM - 08:00 AM	47.4	70.9	44.7
08:00 AM - 09:00 AM	45.8	68.3	42.9
09:00 AM - 10:00 AM	45.7	63.3	42.0
10:00 AM - 11:00 AM	45.4	70.7	41.5
11:00 AM - 12:00 PM	46.1	67.0	42.0

Leq Average 24 hrs. (dB(A))

47.2

Lmax (dB(A))

76.8

L90 (dB(A))

42.0

Ldn (dB(A))

54.6

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
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Technical Management

*Orawan R.*

Orawan Rakhyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786349-1

Page 1 of 1

Sample Number : 2390373-25  
Parameter : Noise (Leq 24 hrs.)  
Location : ตำบลคลองใหญ่ (GPS 47P 0710953, 1609766)  
Measurement Date : Sep 09 - Sep 10, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	46.0	73.8	40.7
01:00 PM - 02:00 PM	45.4	69.2	40.2
02:00 PM - 03:00 PM	46.6	66.1	40.7
03:00 PM - 04:00 PM	46.5	70.4	41.4
04:00 PM - 05:00 PM	46.9	73.3	42.0
05:00 PM - 06:00 PM	44.3	62.4	41.7
06:00 PM - 07:00 PM	55.2	65.2	42.5
07:00 PM - 08:00 PM	49.9	70.6	44.5
08:00 PM - 09:00 PM	46.5	68.6	43.8
09:00 PM - 10:00 PM	46.9	71.0	44.4
10:00 PM - 11:00 PM	46.6	71.2	43.7
11:00 PM - 12:00 AM	45.4	71.4	43.0
12:00 AM - 01:00 AM	45.6	79.3	41.7
01:00 AM - 02:00 AM	44.6	69.0	41.5
02:00 AM - 03:00 AM	43.5	69.6	40.7
03:00 AM - 04:00 AM	43.7	69.8	39.8
04:00 AM - 05:00 AM	43.2	64.2	41.1
05:00 AM - 06:00 AM	43.8	62.1	42.4
06:00 AM - 07:00 AM	58.5	91.1	43.3
07:00 AM - 08:00 AM	46.0	64.7	44.1
08:00 AM - 09:00 AM	47.2	70.2	44.1
09:00 AM - 10:00 AM	48.1	71.8	43.2
10:00 AM - 11:00 AM	45.3	71.1	42.7
11:00 AM - 12:00 PM	47.1	69.2	42.3
Leq Average 24 hrs. (dB(A))	49.1		
Lmax (dB(A))		91.1	
L90 (dB(A))			42.3
Ldn (dB(A))	56.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
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Technical Management

*Orawan R.*

Orawan Rakhyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786350-1

Page 1 of 1

Sample Number : 2390373-26  
Parameter : Noise (Leq 24 hrs.)  
Location : ตำบลคลองใหญ่ (GPS 47P 0710953, 1609766)  
Measurement Date : Sep 10 - Sep 11, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	43.3	66.6	40.9
01:00 PM - 02:00 PM	46.8	70.0	40.7
02:00 PM - 03:00 PM	45.9	74.9	42.1
03:00 PM - 04:00 PM	47.5	73.9	43.2
04:00 PM - 05:00 PM	44.6	72.0	42.1
05:00 PM - 06:00 PM	44.4	62.3	42.2
06:00 PM - 07:00 PM	45.5	69.1	42.3
07:00 PM - 08:00 PM	44.8	67.3	42.3
08:00 PM - 09:00 PM	46.4	67.4	43.4
09:00 PM - 10:00 PM	45.5	68.9	43.1
10:00 PM - 11:00 PM	47.2	73.2	42.4
11:00 PM - 12:00 AM	46.5	75.6	41.7
12:00 AM - 01:00 AM	45.1	71.8	41.8
01:00 AM - 02:00 AM	49.1	65.9	43.2
02:00 AM - 03:00 AM	46.4	67.1	43.1
03:00 AM - 04:00 AM	44.1	69.5	41.5
04:00 AM - 05:00 AM	43.6	70.1	40.7
05:00 AM - 06:00 AM	46.4	71.1	41.5
06:00 AM - 07:00 AM	46.5	71.0	43.1
07:00 AM - 08:00 AM	52.8	79.4	43.5
08:00 AM - 09:00 AM	46.1	63.0	44.1
09:00 AM - 10:00 AM	47.7	76.2	43.3
10:00 AM - 11:00 AM	45.1	67.6	41.5
11:00 AM - 12:00 PM	43.0	64.6	40.7
Leq Average 24 hrs. (dB(A))	46.6		
Lmax (dB(A))		79.4	
L90 (dB(A))			42.2
Ldn (dB(A))	52.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
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Technical Management

*Orawan R.*

Orawan Rakhyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786351-1

Page 1 of 1

Sample Number : 2390373-27  
Parameter : Noise (Leq 24 hrs.)  
Location : ถนนพหลโยธิน (GPS 47P 0710953, 1609766)  
Measurement Date : Sep 11 - Sep 12, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	44.6	65.6	40.7
01:00 PM - 02:00 PM	44.4	77.5	40.4
02:00 PM - 03:00 PM	45.7	72.6	40.7
03:00 PM - 04:00 PM	49.7	75.7	41.5
04:00 PM - 05:00 PM	46.5	67.1	41.8
05:00 PM - 06:00 PM	52.0	79.9	42.4
06:00 PM - 07:00 PM	55.6	77.0	43.0
07:00 PM - 08:00 PM	45.9	70.9	42.7
08:00 PM - 09:00 PM	45.6	67.3	43.5
09:00 PM - 10:00 PM	46.5	74.2	42.8
10:00 PM - 11:00 PM	46.4	68.6	41.4
11:00 PM - 12:00 AM	44.2	69.0	41.2
12:00 AM - 01:00 AM	43.9	68.2	41.7
01:00 AM - 02:00 AM	43.7	71.0	41.3
02:00 AM - 03:00 AM	46.8	65.5	41.4
03:00 AM - 04:00 AM	50.6	65.1	45.6
04:00 AM - 05:00 AM	53.6	67.0	46.7
05:00 AM - 06:00 AM	55.1	70.0	48.5
06:00 AM - 07:00 AM	47.6	72.2	43.6
07:00 AM - 08:00 AM	47.6	76.9	44.0
08:00 AM - 09:00 AM	47.2	69.3	43.7
09:00 AM - 10:00 AM	45.9	78.5	42.5
10:00 AM - 11:00 AM	44.4	63.8	41.7
11:00 AM - 12:00 PM	43.4	59.0	41.2

Leq Average 24 hrs. (dB(A)) : 49.1  
Lmax (dB(A)) : 79.9  
L90 (dB(A)) : 41.8  
Ldn (dB(A)) : 56.2

Standard (dB(A)) : 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานการประเมินเสียงโดยทั่วไป  
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Technical Management

*Orawan R.*

Orawan Rak Yong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786352-1

Page 1 of 1

Sample Number : 2390373-28  
Parameter : Noise (Leq 24 hrs.)  
Location : ถนนพหลโยธิน (GPS 47P 0710953, 1609766)  
Measurement Date : Sep 12 - Sep 13, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	43.7	63.3	40.9
01:00 PM - 02:00 PM	45.0	67.3	42.1
02:00 PM - 03:00 PM	44.9	66.4	42.4
03:00 PM - 04:00 PM	46.8	61.8	43.5
04:00 PM - 05:00 PM	45.5	63.4	43.6
05:00 PM - 06:00 PM	45.1	63.1	42.9
06:00 PM - 07:00 PM	45.6	67.4	42.4
07:00 PM - 08:00 PM	44.5	65.9	42.9
08:00 PM - 09:00 PM	48.6	74.7	43.4
09:00 PM - 10:00 PM	50.6	69.5	46.5
10:00 PM - 11:00 PM	50.9	68.3	46.9
11:00 PM - 12:00 AM	51.6	68.9	46.0
12:00 AM - 01:00 AM	49.2	67.1	45.1
01:00 AM - 02:00 AM	46.3	69.8	42.2
02:00 AM - 03:00 AM	44.1	70.6	41.3
03:00 AM - 04:00 AM	43.4	69.9	41.0
04:00 AM - 05:00 AM	53.4	63.8	48.0
05:00 AM - 06:00 AM	54.3	69.7	44.9
06:00 AM - 07:00 AM	47.1	65.1	44.4
07:00 AM - 08:00 AM	46.7	69.7	44.4
08:00 AM - 09:00 AM	46.3	64.4	43.8
09:00 AM - 10:00 AM	44.7	63.1	42.4
10:00 AM - 11:00 AM	45.9	73.3	41.9
11:00 AM - 12:00 PM	45.1	64.9	40.3

Leq Average 24 hrs. (dB(A)) : 48.3  
Lmax (dB(A)) : 74.7  
L90 (dB(A)) : 42.9  
Ldn (dB(A)) : 56.4

Standard (dB(A)) : 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานการประเมินเสียงโดยทั่วไป  
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Technical Management

*Orawan R.*

Orawan Rak Yong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteh  
Section Head

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11734-21/ EMAIL

S:\Reports\_Air Noise.rpt ( 6:21PM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786353-1

Page 1 of 1

Sample Number : 2390373-29  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot 1 (GPS 47P 0712123, 1610241)  
Measurement Date : Sep 06 - Sep 07, 2023  
Measurement by : Prommee Sripalnet  
Sound Level meter : Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	66.2	76.8	65.0
03:00 PM - 04:00 PM	66.1	73.4	65.1
04:00 PM - 05:00 PM	66.7	76.2	65.7
05:00 PM - 06:00 PM	66.9	76.7	65.9
06:00 PM - 07:00 PM	66.7	74.0	65.6
07:00 PM - 08:00 PM	66.8	80.1	65.6
08:00 PM - 09:00 PM	66.6	77.1	65.4
09:00 PM - 10:00 PM	66.1	75.9	65.0
10:00 PM - 11:00 PM	65.9	74.2	64.7
11:00 PM - 12:00 AM	66.1	76.3	64.9
12:00 AM - 01:00 AM	65.6	77.1	64.5
01:00 AM - 02:00 AM	65.2	72.6	64.1
02:00 AM - 03:00 AM	64.7	73.5	63.7
03:00 AM - 04:00 AM	64.6	77.9	63.5
04:00 AM - 05:00 AM	64.8	72.4	63.6
05:00 AM - 06:00 AM	65.1	72.6	63.9
06:00 AM - 07:00 AM	66.6	80.5	65.2
07:00 AM - 08:00 AM	67.0	74.0	65.9
08:00 AM - 09:00 AM	66.2	71.6	65.1
09:00 AM - 10:00 AM	65.7	74.3	64.6
10:00 AM - 11:00 AM	65.7	72.1	64.6
11:00 AM - 12:00 PM	65.9	77.1	64.7
12:00 PM - 01:00 PM	65.8	77.6	64.6
01:00 PM - 02:00 PM	65.7	74.7	64.5

Leq Average 24 hrs. (dB(A)) : 66.0  
Lmax (dB(A)) : 80.5  
L90 (dB(A)) : 64.7  
Ldn (dB(A)) : 72.0  
Standard (dB(A)) : 70  
Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Orawan R.

Orawan Rak Yong  
Scientist (3)

Approved by

Supt S.

Supot Salamteh  
Section Head

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11734-21/EMAL

S:\Reports\Air Noise rpt ( 6:21PM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786354-1

Page 1 of 1

Sample Number : 2390373-30  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot 1 (GPS 47P 0712123, 1610241)  
Measurement Date : Sep 07 - Sep 08, 2023  
Measurement by : Prommee Sripalnet  
Sound Level meter : Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	65.7	71.2	64.5
03:00 PM - 04:00 PM	65.9	74.0	64.6
04:00 PM - 05:00 PM	65.9	77.0	64.9
05:00 PM - 06:00 PM	66.6	87.6	65.1
06:00 PM - 07:00 PM	66.3	74.0	65.3
07:00 PM - 08:00 PM	66.5	73.8	65.4
08:00 PM - 09:00 PM	66.5	73.9	65.3
09:00 PM - 10:00 PM	66.4	74.2	65.2
10:00 PM - 11:00 PM	66.4	74.2	65.2
11:00 PM - 12:00 AM	65.9	75.0	64.7
12:00 AM - 01:00 AM	65.0	79.3	63.8
01:00 AM - 02:00 AM	64.5	70.6	63.5
02:00 AM - 03:00 AM	64.4	72.5	63.2
03:00 AM - 04:00 AM	64.6	74.2	63.4
04:00 AM - 05:00 AM	65.0	73.5	63.8
05:00 AM - 06:00 AM	65.3	73.5	64.1
06:00 AM - 07:00 AM	66.6	76.0	65.3
07:00 AM - 08:00 AM	67.3	77.2	66.1
08:00 AM - 09:00 AM	66.3	73.7	65.0
09:00 AM - 10:00 AM	66.4	76.6	65.2
10:00 AM - 11:00 AM	66.2	73.2	65.0
11:00 AM - 12:00 PM	66.1	83.5	64.7
12:00 PM - 01:00 PM	65.6	74.5	64.4
01:00 PM - 02:00 PM	65.7	77.0	64.6

Leq Average 24 hrs. (dB(A)) : 65.9  
Lmax (dB(A)) : 87.6  
L90 (dB(A)) : 64.7  
Ldn (dB(A)) : 71.9  
Standard (dB(A)) : 70  
Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานการประเมินเสียงโดยทั่วไป  
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Technical Management

Orawan R.

Orawan Rak Yong  
Scientist (3)

Approved by

Supt S.

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786355-1

Page 1 of 1

Sample Number : 2390373-31  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot 1 (GPS 47P 0712123, 1610241)  
Measurement Date : Sep 08 - Sep 09, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	65.7	72.3	64.5
03:00 PM - 04:00 PM	65.6	75.5	64.5
04:00 PM - 05:00 PM	65.5	73.6	64.5
05:00 PM - 06:00 PM	66.3	83.5	65.1
06:00 PM - 07:00 PM	66.5	74.2	65.5
07:00 PM - 08:00 PM	66.6	73.1	65.4
08:00 PM - 09:00 PM	66.6	72.8	65.5
09:00 PM - 10:00 PM	66.7	79.5	65.5
10:00 PM - 11:00 PM	66.6	76.8	65.4
11:00 PM - 12:00 AM	66.0	76.8	64.8
12:00 AM - 01:00 AM	65.3	75.5	64.0
01:00 AM - 02:00 AM	65.0	77.9	63.7
02:00 AM - 03:00 AM	64.8	71.8	63.7
03:00 AM - 04:00 AM	64.8	74.3	63.5
04:00 AM - 05:00 AM	65.0	72.7	63.8
05:00 AM - 06:00 AM	65.8	72.4	64.3
06:00 AM - 07:00 AM	66.6	75.9	65.4
07:00 AM - 08:00 AM	66.7	80.0	65.5
08:00 AM - 09:00 AM	66.6	74.5	65.4
09:00 AM - 10:00 AM	66.6	74.4	65.4
10:00 AM - 11:00 AM	66.5	77.6	65.3
11:00 AM - 12:00 PM	66.2	72.6	65.1
12:00 PM - 01:00 PM	66.1	74.9	64.9
01:00 PM - 02:00 PM	66.4	74.6	65.2

Leq Average 24 hrs. (dB(A)) : 66.1  
Lmax (dB(A)) : 83.5  
L90 (dB(A)) : 65.1  
Ldn (dB(A)) : 72.1  
Standard (dB(A)) : 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
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Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*  
Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786356-1

Page 1 of 1

Sample Number : 2390373-32  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot 1 (GPS 47P 0712123, 1610241)  
Measurement Date : Sep 09 - Sep 10, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	66.4	75.5	65.2
03:00 PM - 04:00 PM	66.7	83.1	65.5
04:00 PM - 05:00 PM	66.9	76.3	65.7
05:00 PM - 06:00 PM	66.8	73.4	65.6
06:00 PM - 07:00 PM	66.6	83.3	65.2
07:00 PM - 08:00 PM	66.4	72.4	65.2
08:00 PM - 09:00 PM	66.6	75.0	65.3
09:00 PM - 10:00 PM	66.4	73.9	65.1
10:00 PM - 11:00 PM	66.3	72.9	64.8
11:00 PM - 12:00 AM	65.6	74.7	64.2
12:00 AM - 01:00 AM	65.3	74.4	64.0
01:00 AM - 02:00 AM	65.1	72.4	63.8
02:00 AM - 03:00 AM	64.8	73.8	63.6
03:00 AM - 04:00 AM	65.0	71.9	63.7
04:00 AM - 05:00 AM	65.1	72.3	63.7
05:00 AM - 06:00 AM	65.6	74.7	64.2
06:00 AM - 07:00 AM	66.4	77.8	64.9
07:00 AM - 08:00 AM	66.3	84.2	65.0
08:00 AM - 09:00 AM	66.9	82.0	65.2
09:00 AM - 10:00 AM	66.7	75.6	65.5
10:00 AM - 11:00 AM	67.3	84.9	65.6
11:00 AM - 12:00 PM	66.7	74.1	65.6
12:00 PM - 01:00 PM	66.3	74.8	65.2
01:00 PM - 02:00 PM	66.6	75.4	65.6

Leq Average 24 hrs. (dB(A)) : 66.3  
Lmax (dB(A)) : 84.9  
L90 (dB(A)) : 65.2  
Ldn (dB(A)) : 72.1  
Standard (dB(A)) : 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*  
Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786357-1

Page 1 of 1

Sample Number : 2390373-33  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot 1 (GPS 47P 0712123, 1610241)  
Measurement Date : Sep 10 - Sep 11, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	67.1	75.1	65.9
03:00 PM - 04:00 PM	67.0	78.1	65.9
04:00 PM - 05:00 PM	67.1	75.9	66.0
05:00 PM - 06:00 PM	67.4	77.4	66.1
06:00 PM - 07:00 PM	66.4	74.8	65.0
07:00 PM - 08:00 PM	65.9	72.9	64.8
08:00 PM - 09:00 PM	66.0	83.2	64.8
09:00 PM - 10:00 PM	65.5	72.5	64.3
10:00 PM - 11:00 PM	65.5	73.2	64.1
11:00 PM - 12:00 AM	65.1	75.6	63.7
12:00 AM - 01:00 AM	64.5	71.1	63.2
01:00 AM - 02:00 AM	64.6	73.5	63.3
02:00 AM - 03:00 AM	64.4	77.5	63.4
03:00 AM - 04:00 AM	64.5	70.0	63.5
04:00 AM - 05:00 AM	64.9	70.7	63.8
05:00 AM - 06:00 AM	65.7	74.0	64.3
06:00 AM - 07:00 AM	67.0	78.8	65.7
07:00 AM - 08:00 AM	67.2	77.1	65.9
08:00 AM - 09:00 AM	66.3	75.1	65.1
09:00 AM - 10:00 AM	66.3	71.9	65.1
10:00 AM - 11:00 AM	66.3	71.3	65.1
11:00 AM - 12:00 PM	66.5	74.5	65.3
12:00 PM - 01:00 PM	66.0	75.6	64.9
01:00 PM - 02:00 PM	66.1	76.5	64.9
Leq Average 24 hrs. (dB(A))	66.1		
Lmax (dB(A))		83.2	
L90 (dB(A))			64.9
Ldn (dB(A))	71.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานการประเมินเสียงโดยทั่วไป  
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โรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*

Orawan Rakhyong  
Scientist (3)

Approved by

*Supot S.*

Supot Salamteah  
Section Head

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11736-2U/EMAIL

S:\Reports\Air Noise.rpt ( 6:24PM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786358-1

Page 1 of 1

Sample Number : 2390373-34  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot 1 (GPS 47P 0712123, 1610241)  
Measurement Date : Sep 11 - Sep 12, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	66.5	77.7	65.2
03:00 PM - 04:00 PM	66.5	75.1	65.3
04:00 PM - 05:00 PM	67.0	79.8	65.8
05:00 PM - 06:00 PM	67.6	76.6	66.4
06:00 PM - 07:00 PM	67.1	76.6	65.9
07:00 PM - 08:00 PM	66.7	77.6	65.4
08:00 PM - 09:00 PM	66.7	75.4	65.5
09:00 PM - 10:00 PM	66.7	78.5	65.3
10:00 PM - 11:00 PM	66.7	79.0	65.3
11:00 PM - 12:00 AM	65.9	78.3	64.3
12:00 AM - 01:00 AM	64.9	74.6	63.7
01:00 AM - 02:00 AM	64.6	71.3	63.3
02:00 AM - 03:00 AM	64.6	73.1	63.4
03:00 AM - 04:00 AM	64.9	74.1	63.5
04:00 AM - 05:00 AM	64.7	75.3	63.4
05:00 AM - 06:00 AM	64.8	72.1	63.6
06:00 AM - 07:00 AM	66.1	77.4	64.6
07:00 AM - 08:00 AM	66.9	76.5	65.6
08:00 AM - 09:00 AM	66.5	77.4	65.3
09:00 AM - 10:00 AM	66.5	80.5	65.3
10:00 AM - 11:00 AM	66.9	79.5	65.4
11:00 AM - 12:00 PM	66.4	79.9	65.1
12:00 PM - 01:00 PM	66.1	73.8	64.9
01:00 PM - 02:00 PM	69.5	82.5	65.0
Leq Average 24 hrs. (dB(A))	66.4		
Lmax (dB(A))		82.5	
L90 (dB(A))			65.2
Ldn (dB(A))	72.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานการประเมินเสียงโดยทั่วไป  
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โรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*

Orawan Rakhyong  
Scientist (3)

Approved by

*Supot S.*

Supot Salamteah  
Section Head

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11736-2U/EMAIL

S:\Reports\Air Noise.rpt ( 6:24PM)





## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786359-1

Page 1 of 1

Sample Number : 2390373-35  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot 1 (GPS 47P 0712123, 1610241)  
Measurement Date : Sep 12 - Sep 13, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	69.4	81.8	65.1
03:00 PM - 04:00 PM	66.3	72.0	65.1
04:00 PM - 05:00 PM	66.0	74.6	64.8
05:00 PM - 06:00 PM	66.4	71.6	65.3
06:00 PM - 07:00 PM	66.9	78.1	65.7
07:00 PM - 08:00 PM	66.7	73.5	65.5
08:00 PM - 09:00 PM	66.3	77.6	65.1
09:00 PM - 10:00 PM	66.0	74.5	64.9
10:00 PM - 11:00 PM	65.9	76.8	64.8
11:00 PM - 12:00 AM	65.6	77.3	64.3
12:00 AM - 01:00 AM	64.6	69.7	63.5
01:00 AM - 02:00 AM	64.5	75.3	63.2
02:00 AM - 03:00 AM	64.6	83.4	63.4
03:00 AM - 04:00 AM	64.4	72.1	63.3
04:00 AM - 05:00 AM	64.5	73.5	63.4
05:00 AM - 06:00 AM	64.9	71.2	63.5
06:00 AM - 07:00 AM	66.2	74.2	64.8
07:00 AM - 08:00 AM	66.8	75.7	65.5
08:00 AM - 09:00 AM	66.0	73.0	64.8
09:00 AM - 10:00 AM	66.8	74.2	65.2
10:00 AM - 11:00 AM	66.3	77.5	65.0
11:00 AM - 12:00 PM	67.5	93.3	64.9
12:00 PM - 01:00 PM	65.8	73.8	64.7
01:00 PM - 02:00 PM	65.8	79.4	64.7

Leq Average 24 hrs. (dB(A)) : 66.2  
Lmax (dB(A)) : 93.3  
L90 (dB(A)) : 64.8  
Ldn (dB(A)) : 71.8  
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*

Orawan Rakhyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786360-1

Page 1 of 1

Sample Number : 2390373-36  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot 2 (GPS 47P 0711690, 1610514)  
Measurement Date : Sep 06 - Sep 07, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	55.9	75.3	52.0
03:00 PM - 04:00 PM	54.2	75.4	51.8
04:00 PM - 05:00 PM	55.8	76.5	52.2
05:00 PM - 06:00 PM	56.3	81.1	52.9
06:00 PM - 07:00 PM	55.4	72.3	53.0
07:00 PM - 08:00 PM	59.7	71.1	54.0
08:00 PM - 09:00 PM	66.7	75.1	65.4
09:00 PM - 10:00 PM	66.3	71.7	64.8
10:00 PM - 11:00 PM	62.2	68.4	59.1
11:00 PM - 12:00 AM	62.6	70.4	59.4
12:00 AM - 01:00 AM	61.6	65.2	59.6
01:00 AM - 02:00 AM	61.2	74.3	55.7
02:00 AM - 03:00 AM	65.0	69.0	64.6
03:00 AM - 04:00 AM	65.2	68.6	61.3
04:00 AM - 05:00 AM	64.3	67.7	59.5
05:00 AM - 06:00 AM	60.2	70.4	58.6
06:00 AM - 07:00 AM	57.7	78.8	55.5
07:00 AM - 08:00 AM	55.7	75.0	52.8
08:00 AM - 09:00 AM	55.3	72.0	52.3
09:00 AM - 10:00 AM	53.6	74.1	51.1
10:00 AM - 11:00 AM	55.0	73.5	51.4
11:00 AM - 12:00 PM	54.8	78.7	51.4
12:00 PM - 01:00 PM	53.5	69.0	50.5
01:00 PM - 02:00 PM	52.3	70.8	50.4

Leq Average 24 hrs. (dB(A)) : 61.1  
Lmax (dB(A)) : 81.1  
L90 (dB(A)) : 53.0  
Ldn (dB(A)) : 68.8  
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*

Orawan Rakhyong  
Scientist (3)

Approved by

*Supt S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786361-1

Page 1 of 1

Sample Number 2390373-37  
 Parameter Noise (Leq 24 hrs.)  
 Location โรงไฟฟ้า plot2 (GPS 47P 0711690, 1610514)  
 Measurement Date Sep 07 - Sep 08, 2023  
 Measurement by Prommee Sripatnet  
 Sound Level meter Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	54.9	70.8	51.3
03:00 PM - 04:00 PM	54.4	70.8	51.2
04:00 PM - 05:00 PM	54.5	71.0	51.2
05:00 PM - 06:00 PM	55.8	73.3	52.3
06:00 PM - 07:00 PM	54.9	77.5	51.6
07:00 PM - 08:00 PM	55.6	73.4	52.1
08:00 PM - 09:00 PM	68.4	74.7	66.5
09:00 PM - 10:00 PM	67.5	71.8	64.3
10:00 PM - 11:00 PM	63.9	72.7	61.0
11:00 PM - 12:00 AM	60.6	64.3	59.9
12:00 AM - 01:00 AM	60.4	64.8	59.1
01:00 AM - 02:00 AM	59.5	68.7	58.9
02:00 AM - 03:00 AM	59.4	62.0	58.3
03:00 AM - 04:00 AM	57.7	65.1	55.6
04:00 AM - 05:00 AM	59.1	64.7	56.3
05:00 AM - 06:00 AM	58.5	64.9	56.5
06:00 AM - 07:00 AM	59.4	75.2	57.7
07:00 AM - 08:00 AM	56.3	68.3	54.0
08:00 AM - 09:00 AM	56.8	73.7	53.7
09:00 AM - 10:00 AM	55.1	71.6	52.7
10:00 AM - 11:00 AM	55.1	74.0	51.9
11:00 AM - 12:00 PM	55.8	79.7	50.8
12:00 PM - 01:00 PM	53.2	76.9	50.5
01:00 PM - 02:00 PM	53.4	81.3	50.3

Leq Average 24 hrs. (dB(A)) 60.4  
 Lmax (dB(A)) 81.3  
 L90 (dB(A)) 53.7  
 Ldn (dB(A)) 66.7  
 Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Orawan R.

Orawan Rakhyong  
Scientist (3)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786362-1

Page 1 of 1

Sample Number 2390373-38  
 Parameter Noise (Leq 24 hrs.)  
 Location โรงไฟฟ้า plot2 (GPS 47P 0711690, 1610514)  
 Measurement Date Sep 08 - Sep 09, 2023  
 Measurement by Prommee Sripatnet  
 Sound Level meter Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	54.7	72.0	51.6
03:00 PM - 04:00 PM	53.1	68.9	50.5
04:00 PM - 05:00 PM	54.0	75.2	50.9
05:00 PM - 06:00 PM	54.7	72.6	51.4
06:00 PM - 07:00 PM	55.5	72.8	52.0
07:00 PM - 08:00 PM	56.9	79.9	54.4
08:00 PM - 09:00 PM	63.8	76.6	59.3
09:00 PM - 10:00 PM	64.6	72.6	59.4
10:00 PM - 11:00 PM	65.4	70.2	64.9
11:00 PM - 12:00 AM	65.1	71.6	64.4
12:00 AM - 01:00 AM	66.6	80.9	64.3
01:00 AM - 02:00 AM	66.2	71.9	63.6
02:00 AM - 03:00 AM	66.1	75.4	58.4
03:00 AM - 04:00 AM	65.9	73.7	63.1
04:00 AM - 05:00 AM	69.6	74.9	63.4
05:00 AM - 06:00 AM	66.7	74.8	61.5
06:00 AM - 07:00 AM	61.0	71.3	57.5
07:00 AM - 08:00 AM	56.5	67.4	53.3
08:00 AM - 09:00 AM	54.9	74.3	52.3
09:00 AM - 10:00 AM	58.8	75.1	52.0
10:00 AM - 11:00 AM	58.4	76.4	51.3
11:00 AM - 12:00 PM	53.9	75.7	51.1
12:00 PM - 01:00 PM	52.2	67.7	49.8
01:00 PM - 02:00 PM	53.0	77.7	50.0

Leq Average 24 hrs. (dB(A)) 63.1  
 Lmax (dB(A)) 80.9  
 L90 (dB(A)) 53.3  
 Ldn (dB(A)) 72.2  
 Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Orawan R.

Orawan Rakhyong  
Scientist (3)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786363-1

Page 1 of 1

Sample Number : 2390373-39  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot2 (GPS 47P 0711690, 1610514)  
Measurement Date : Sep 09 - Sep 10, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	53.9	73.8	51.0
03:00 PM - 04:00 PM	52.7	66.9	50.5
04:00 PM - 05:00 PM	54.4	75.1	51.4
05:00 PM - 06:00 PM	54.8	86.5	51.8
06:00 PM - 07:00 PM	55.8	73.9	52.5
07:00 PM - 08:00 PM	64.6	73.2	53.5
08:00 PM - 09:00 PM	68.3	73.4	66.7
09:00 PM - 10:00 PM	70.2	76.2	68.9
10:00 PM - 11:00 PM	68.4	73.3	66.1
11:00 PM - 12:00 AM	66.8	71.7	63.6
12:00 AM - 01:00 AM	66.6	72.2	64.4
01:00 AM - 02:00 AM	67.4	72.7	63.5
02:00 AM - 03:00 AM	66.8	70.4	65.6
03:00 AM - 04:00 AM	65.4	70.3	64.8
04:00 AM - 05:00 AM	64.8	70.3	60.6
05:00 AM - 06:00 AM	64.3	72.7	59.5
06:00 AM - 07:00 AM	59.0	69.8	57.2
07:00 AM - 08:00 AM	57.6	70.1	55.0
08:00 AM - 09:00 AM	58.1	82.2	54.1
09:00 AM - 10:00 AM	55.1	76.8	52.7
10:00 AM - 11:00 AM	56.1	73.9	52.6
11:00 AM - 12:00 PM	58.4	75.9	55.7
12:00 PM - 01:00 PM	57.0	72.9	52.9
01:00 PM - 02:00 PM	58.7	77.9	53.4

Leq Average 24 hrs. (dB(A)) : 64.1  
Lmax (dB(A)) : 86.5  
L90 (dB(A)) : 55.0  
Ldn (dB(A)) : 72.1  
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakpong  
Scientist (3)

Approved by

*Supt S.*  
Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390373  
Date Received : Sep 15, 2023  
Date Reported : Sep 22, 2023  
Report Number: 2786364-1

Page 1 of 1

Sample Number : 2390373-40  
Parameter : Noise (Leq 24 hrs.)  
Location : โรงไฟฟ้า plot2 (GPS 47P 0711690, 1610514)  
Measurement Date : Sep 10 - Sep 11, 2023  
Measurement by : Prommee Sripatnet  
Sound Level meter : Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	55.7	72.4	52.2
03:00 PM - 04:00 PM	56.9	79.7	52.2
04:00 PM - 05:00 PM	56.7	80.8	53.6
05:00 PM - 06:00 PM	56.9	70.3	53.8
06:00 PM - 07:00 PM	54.8	76.2	52.3
07:00 PM - 08:00 PM	55.7	79.5	52.5
08:00 PM - 09:00 PM	69.0	77.2	60.1
09:00 PM - 10:00 PM	70.0	75.2	68.0
10:00 PM - 11:00 PM	68.9	72.8	66.6
11:00 PM - 12:00 AM	68.5	72.4	66.0
12:00 AM - 01:00 AM	68.5	72.4	65.7
01:00 AM - 02:00 AM	63.9	71.8	54.6
02:00 AM - 03:00 AM	55.2	69.1	52.9
03:00 AM - 04:00 AM	64.8	71.1	53.9
04:00 AM - 05:00 AM	67.8	73.0	62.7
05:00 AM - 06:00 AM	65.5	72.0	54.6
06:00 AM - 07:00 AM	58.9	68.5	55.9
07:00 AM - 08:00 AM	56.3	76.7	54.2
08:00 AM - 09:00 AM	56.2	75.1	52.8
09:00 AM - 10:00 AM	54.3	71.3	52.2
10:00 AM - 11:00 AM	53.5	67.2	51.9
11:00 AM - 12:00 PM	54.0	69.0	51.9
12:00 PM - 01:00 PM	53.9	75.6	51.6
01:00 PM - 02:00 PM	54.0	68.8	51.9

Leq Average 24 hrs. (dB(A)) : 64.0  
Lmax (dB(A)) : 80.8  
L90 (dB(A)) : 53.6  
Ldn (dB(A)) : 72.3  
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Orawan R.*  
Orawan Rakpong  
Scientist (3)

Approved by

*Supt S.*  
Supot Salamteh  
Section Head

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S:\Reports\_Air Noise.rpt (6.25PM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786365-1

Page 1 of 1

Sample Number 2390373-41  
Parameter Noise (Leq 24 hrs.)  
Location โรงไฟฟ้า plot2 (GPS 47P 0711690, 1610514)  
Measurement Date Sep 11 - Sep 12, 2023  
Measurement by Prommee Sripatnet  
Sound Level meter Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	54.9	75.8	52.2
03:00 PM - 04:00 PM	55.9	72.5	51.6
04:00 PM - 05:00 PM	56.1	73.0	52.6
05:00 PM - 06:00 PM	56.6	76.1	53.7
06:00 PM - 07:00 PM	57.9	72.5	54.9
07:00 PM - 08:00 PM	57.4	73.5	54.8
08:00 PM - 09:00 PM	57.5	63.8	54.8
09:00 PM - 10:00 PM	57.5	74.1	55.1
10:00 PM - 11:00 PM	57.8	70.9	55.5
11:00 PM - 12:00 AM	57.6	69.7	56.2
12:00 AM - 01:00 AM	57.5	74.7	56.8
01:00 AM - 02:00 AM	57.0	66.6	56.2
02:00 AM - 03:00 AM	60.2	80.0	56.2
03:00 AM - 04:00 AM	60.4	73.4	56.9
04:00 AM - 05:00 AM	57.9	73.7	56.8
05:00 AM - 06:00 AM	58.6	79.1	57.1
06:00 AM - 07:00 AM	59.3	70.7	57.5
07:00 AM - 08:00 AM	59.3	74.2	58.0
08:00 AM - 09:00 AM	57.3	71.8	56.5
09:00 AM - 10:00 AM	56.4	61.6	55.9
10:00 AM - 11:00 AM	56.1	67.0	55.5
11:00 AM - 12:00 PM	57.6	75.9	56.0
12:00 PM - 01:00 PM	58.7	67.5	57.7
01:00 PM - 02:00 PM	58.3	66.5	57.7

Leq Average 24 hrs. (dB(A))

57.9

Lmax (dB(A))

80.0

L90 (dB(A))

56.0

Ldn (dB(A))

64.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง กำหนดค่าระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*

Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390373

Date Received : Sep 15, 2023

Date Reported : Sep 22, 2023

Report Number: 2786366-1

Page 1 of 1

Sample Number 2390373-42  
Parameter Noise (Leq 24 hrs.)  
Location โรงไฟฟ้า plot2 (GPS 47P 0711690, 1610514)  
Measurement Date Sep 12 - Sep 13, 2023  
Measurement by Prommee Sripatnet  
Sound Level meter Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	60.1	93.4	57.0
03:00 PM - 04:00 PM	57.9	75.1	57.1
04:00 PM - 05:00 PM	57.5	77.2	56.0
05:00 PM - 06:00 PM	57.8	80.5	55.7
06:00 PM - 07:00 PM	59.5	73.5	58.5
07:00 PM - 08:00 PM	59.1	71.4	58.3
08:00 PM - 09:00 PM	58.7	69.6	58.1
09:00 PM - 10:00 PM	59.3	73.8	58.3
10:00 PM - 11:00 PM	59.4	71.4	58.3
11:00 PM - 12:00 AM	60.7	84.4	59.7
12:00 AM - 01:00 AM	60.1	76.7	59.2
01:00 AM - 02:00 AM	59.6	76.1	58.9
02:00 AM - 03:00 AM	61.0	74.1	59.3
03:00 AM - 04:00 AM	60.5	71.0	59.5
04:00 AM - 05:00 AM	60.1	66.3	59.4
05:00 AM - 06:00 AM	60.6	74.9	59.7
06:00 AM - 07:00 AM	60.1	69.6	59.3
07:00 AM - 08:00 AM	59.5	66.1	58.7
08:00 AM - 09:00 AM	58.9	63.8	58.4
09:00 AM - 10:00 AM	59.2	74.2	58.5
10:00 AM - 11:00 AM	59.5	78.3	58.7
11:00 AM - 12:00 PM	59.4	73.3	58.7
12:00 PM - 01:00 PM	59.4	73.9	58.8
01:00 PM - 02:00 PM	59.2	68.1	58.6

Leq Average 24 hrs. (dB(A))

59.5

Lmax (dB(A))

93.4

L90 (dB(A))

58.6

Ldn (dB(A))

66.5

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง กำหนดค่าระดับเสียงโดยทั่วไป ฉบับที่ 15 (พ.ศ. 2540) เรื่อง กำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

*Orawan R.*

Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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คุณภาพน้ำทิ้ง



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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



TESTING  
No.0009  
Lot ID: 2370672  
Date Received : Jul 07, 2023  
Date Reported : Aug 10, 2023  
Report Number : 2688983-1

Page 1 of 2

Sample Number : 2370672-1  
Sampled Date : Jul 07, 2023 1:05 PM  
Sample Description : Wastewater  
Location : โรงไฟฟ้า (Retention Pond)  
Date Analysis Commenced : Jul 07, 2023  
Condition of Sample : Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.2	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	31	≤100	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Color (at Original pH) *	ADMI	-	5	9	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Color (at pH 7.0) *	ADMI	-	5	11	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Oil & Grease *	mg/L	-	3	3	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	8.3	6.5-8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.7	≤40	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1064	≤1300	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤30	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Technical Management

Siriluk P.

Siriluk Puengpaeng  
Section Head  
โทร: 09-00000000-4720

Approved by

Kanokorn Anek

Kanokorn Anek  
Senior Manager  
โทร: 09-00000000-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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



TESTING  
No.0009  
Lot ID: 2370672  
Date Received : Jul 07, 2023  
Date Reported : Aug 10, 2023  
Report Number : 2688983-1

Page 2 of 2

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Teerawat Puangsuk โทร: 09-00000000-7107

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

Siriluk P.

Siriluk Puengpaeng  
Section Head  
โทร: 09-00000000-4720

Approved by

Kanokorn Anek

Kanokorn Anek  
Senior Manager  
โทร: 09-00000000-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2370672  
Date Received : Jul 07, 2023  
Date Reported : Aug 10, 2023  
Report Number : 2688983-2

Page 1 of 1

Sample Number : 2370672-1  
Sampled Date : Jul 07, 2023 1:05 PM  
Sample Description : Wastewater  
Location : บึงกิ้งกิ้ง (Retention Pond)  
Date Analysis Commenced : Jul 10, 2023  
Condition of Sample : Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 degree C	micromhos/cm	-	0.5	1674	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.5	≥2	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Teerawat Puangsuks ๓๖๓๖๓๓๓ ๓-๒๐4-๓-7107

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

Approved by

Siriluk P.

Siriluk Puanggang  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING

No.0009

Lot ID: 2374367  
Date Received : Aug 18, 2023  
Date Reported : Aug 25, 2023  
Report Number : 2698012-1

Page 1 of 2

Sample Number : 2374367-1  
Sampled Date : Aug 18, 2023 1:15 PM  
Sample Description : Wastewater  
Location : บึงกิ้งกิ้ง (Retention Pond)  
Date Analysis Commenced : Aug 19, 2023  
Condition of Sample : Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	40	≤100	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Color (at Original pH) *	ADMI	-	5	15	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Color (at pH 7.0) *	ADMI	-	5	14	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.8	6.5-8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.6	≤40	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	876	≤1300	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤30	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Technical Management

Siriluk P.

Siriluk Puanggang  
Section Head

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Approved by

Kanokorn Anek

Kanokorn Anek  
Senior Manager

๓๖๓๖๓๓๓ ๓-๒๐4-๓-6111

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13734 23/ ENWL



## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GTLC



**TESTING**  
**Lot ID: 2374367**  
**Date Received :** Aug 18, 2023  
**Date Reported :** Aug 25, 2023  
**Report Number :** 2698012-1

Page 2 of 2

**Guideline :** Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

**Sampling By :** Teerawat Puangsuk โทร 09-00000000-204-4-7107

**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.



## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GTLC

**Lot ID: 2374367**  
**Date Received :** Aug 18, 2023  
**Date Reported :** Aug 25, 2023  
**Report Number :** 2698012-2

Page 1 of 1

**Sample Number** 2374367-1  
**Sample Date** Aug 18, 2023 1:15 PM  
**Sample Description** Wastewater  
**Location** บารักน้ำทิ้ง(Retention Pond)  
**Date Analysis Commenced** Aug 21, 2023  
**Condition of Sample** Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 degree C	micromhos/cm	-	0.5	1467	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.9	≥2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

**Guideline :** Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

**Sampling By :** Teerawat Puangsuk โทร 09-00000000-204-4-7107

**Remark :**

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

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Technical Management

Siriluk P.

Siriluk Puengpang  
Section Head  
โทร 09-00000000-204-4-4720

Approved by

Kanokorn Anek

Kanokorn Anek  
Senior Manager  
โทร 09-00000000-204-4-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING  
No.0009  
Lot ID: 2390689  
Date Received : Sep 01, 2023  
Date Reported : Sep 08, 2023  
Report Number : 2736010-1

Page 1 of 2

Sample Number : 2390689-1  
Sampled Date : Sep 01, 2023 11:00 AM  
Sample Description : Wastewater  
Location : สานักงาน (Retention Pond)  
Date Analysis Commenced : Sep 02, 2023  
Condition of Sample : Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	51	≤100	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Color (at Original pH) *	ADMI	-	5	14	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Color (at pH 7.0) *	ADMI	-	5	13	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.6	6.5-8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.5	≤40	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1092	≤1300	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤30	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Technical Management

Siriluk P.

Siriluk Puengpang  
Section Head  
โทร: 09-00000000-204-4-4720

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Senior Manager  
โทร: 09-00000000-204-4-6111

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12734-20 (PMA)

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING  
No.0009  
Lot ID: 2390689  
Date Received : Sep 01, 2023  
Date Reported : Sep 08, 2023  
Report Number : 2736010-1

Page 2 of 2

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Prapote Wannachoochai โทร: 09-00000000-204-4-7109

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

Siriluk P.

Siriluk Puengpang  
Section Head  
โทร: 09-00000000-204-4-4720

Approved by

Kanokkorn Anek

Kanokkorn Anek  
Senior Manager  
โทร: 09-00000000-204-4-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390689  
Date Received : Sep 01, 2023  
Date Reported : Sep 08, 2023  
Report Number : 2736010-2

Page 1 of 1

Sample Number 2390689-1  
Sample Date Sep 01, 2023 11:00 AM  
Sample Description Wastewater  
Location บานกิ้งน้ำพอง(Retention Pond)  
Date Analysis Commenced Sep 04, 2023  
Condition of Sample Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 degree C	micromhos/cm	-	0.5	1852	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.4	≥2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Prapote Wannachochai ๖๒๖๖๖๖๖๖ ๖-204-๖-7109

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

Approved by

Siriluk P.  
Siriluk Puengpang  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING

No.0009

Lot ID: 23107007  
Date Received : Oct 06, 2023  
Date Reported : Oct 17, 2023  
Report Number : 2773811-1

Page 1 of 2

Sample Number 23107007-1  
Sample Date Oct 06, 2023 10:45 AM  
Sample Description Wastewater  
Location บานกิ้งน้ำพอง(Retention Pond)  
Date Analysis Commenced Oct 07, 2023  
Condition of Sample Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	36	≤100	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Color (at Original pH) *	ADMI	-	5	29	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Color (at pH 7.0) *	ADMI	-	5	33	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.6	6.5-8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.5	≤40	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1020	≤1300	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤30	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Technical Management

Nant Somb  
Nanthawadee Somboon  
Specialist 1  
๖๒๖๖๖๖๖๖ ๖-204-๖-4716

Approved by

Kanokkom Anek  
Kanokkom Anek  
Senior Manager  
๖๒๖๖๖๖๖๖ ๖-204-๖-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING  
No.0009  
Lot ID: 23107007  
Date Received : Oct 06, 2023  
Date Reported : Oct 17, 2023  
Report Number : 2773811-1

Page 2 of 2

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Teerawat Puangsuk ทวีปณกุลทรัพย์ 204-2-7107

### 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

*Nant Somb*

Nanthawadee Somborn  
Specialist 1  
หมายเลขที่ 204-2-4716

Approved by

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager  
หมายเลขที่ 204-2-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23107007  
Date Received : Oct 06, 2023  
Date Reported : Oct 17, 2023  
Report Number : 2773811-2

Page 1 of 1

Sample Number	23107007-1							
Sampled Date	Oct 06, 2023 10:45 AM							
Sample Description	Wastewater							
Location	บึงกักเก็บน้ำ(Retention Pond)							
Date Analysis Commenced	Oct 09, 2023							
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 degree C	micromhos/cm	-	0.5	1713	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.5	≥2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Teerawat Puangsuk ทวีปณกุลทรัพย์ 204-2-7107

### Remark :

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

Approved by

*Nant Somb*

Nanthawadee Somborn  
Specialist 1

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING  
No.0009  
Lot ID: 23123005  
Date Received : Nov 03, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2813795-1

Page 1 of 2

Sample Number	23123005-1							
Sampled Date	Nov 03, 2023 11:40 AM							
Sample Description	Wastewater							
Location	บ่อกักน้ำทิ้ง(Retention Pond)							
Date Analysis Commenced	Nov 04, 2023							
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	50	≤100	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Color (at Original pH) *	ADMI	-	5	27	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Color (at pH 7.0) *	ADMI	-	5	25	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.8	6.5-8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.2	≤40	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1216	≤1300	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤30	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Technical Management

**Suwimon C.**  
Suwimon Chairuangwut  
Scientist (3)  
โทร: 02-04-5417

Approved by

**Kanokorn Anek**  
Kanokorn Anek  
Senior Manager  
โทร: 02-04-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING  
No.0009  
Lot ID: 23123005  
Date Received : Nov 03, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2813795-1

Page 2 of 2

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Teerawat Puangsuk โทร: 02-04-7107

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

**Suwimon C.**  
Suwimon Chairuangwut  
Scientist (3)  
โทร: 02-04-5417

Approved by

**Kanokorn Anek**  
Kanokorn Anek  
Senior Manager  
โทร: 02-04-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23123005  
Date Received : Nov 03, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2813795-2

Page 1 of 1

Sample Number : 23123005-1  
Sampled Date : Nov 03, 2023 11:40 AM  
Sample Description : Wastewater  
Location : บึงกักเก็บน้ำ(Retention Pond)  
Date Analysis Commenced : Nov 06, 2023  
Condition of Sample : Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 degree C	micromhos/cm	-	0.5	1944	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.6	≥2	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Teerawat Puangsuk ๓๗๓๓๗๓๗๓ ๖-๒๐4-๖-7107

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

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Approved by

*Suwimon C*

Suwimon Chairangwut  
Scientist (3)

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11/24-25/2023



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING

No.0009

Lot ID: 23132178  
Date Received : Dec 01, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2833839-1

Page 1 of 2

Sample Number : 23132178-1  
Sampled Date : Dec 01, 2023 9:30 AM  
Sample Description : Wastewater  
Location : บึงกักเก็บน้ำ(Retention Pond)  
Date Analysis Commenced : Dec 01, 2023  
Condition of Sample : Contained in one amber glass bottle, two BOD bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	34	≤100	≤120	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Color (at Original pH) *	ADMI	-	5	17	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Color (at pH 7.0) *	ADMI	-	5	13	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *	-	-	-	7.8	6.5-8.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (8)	Bangkok
Temperature *	Degree C	-	-	26.9	≤40	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1188	≤1300	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤30	≤50	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Technical Management

*Suwimon C*

Suwimon Chairangwut  
Scientist (3)

๓๗๓๓๗๓๗ ๖-๒๐4-๖-5417

Approved by

*Kanokorn Anek*

Kanokorn Anek  
Senior Manager

๓๗๓๓๗๓๗ ๖-๒๐4-๖-6111

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11/24-25/2023



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING  
No.0009  
Lot ID: 23132178  
Date Received : Dec 01, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2833839-1

Page 2 of 2

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Chuladet Warin โทรสาร 02-204-4-6120

### 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

**Suwimon C.**  
Suwimon Chainuangwut  
Scientist (3)  
โทรสาร 02-204-4-5417

Approved by

**Kanokorn Anek**  
Kanokorn Anek  
Senior Manager  
โทรสาร 02-204-4-6111

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23132178  
Date Received : Dec 01, 2023  
Date Reported : Dec 08, 2023  
Report Number : 2833839-2

Page 1 of 1

Sample Number : 23132178-1  
Sampled Date : Dec 01, 2023 9:30 AM  
Sample Description : Wastewater  
Location : บึงกักเก็บน้ำ(Retention Pond)  
Date Analysis Commenced : Dec 04, 2023  
Condition of Sample : Contained in one amber glass bottle, two BOD bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 degree C	micromhos/cm	-	0.5	1849	No Standard	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.7	≥2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Guideline (1) : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.  
Guideline (2) : Notification of the Ministry of Natural Resources and Environment B.E. 2565 : The standard for controlling the discharge of wastewater from an electric power plant.

Sampling By : Chuladet Warin โทรสาร 02-204-4-6120

### Remark :

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

Approved by

**Suwimon C.**  
Suwimon Chainuangwut  
Scientist (3)

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ภาคผนวก ค-7

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คุณภาพน้ำผิวดิน



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING  
No.0009  
Lot ID: 2374356  
Date Received : Sep 08, 2023  
Date Reported : Sep 15, 2023  
Report Number : 2697999-1

Page 1 of 4

Sample Number	2374356-1						
Sampled Date	Sep 08, 2023 11:30 AM						
Sample Description	Surface water						
Location	แม่น้ำลำค 500 เมตรเหนือท่ารถจากจุดสูบน้ำของโรงไฟฟ้า						
Date Analysis Commenced	Sep 09, 2023						
Condition of Sample	Contained in two plastic bottles, two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 -O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	480	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Depth *	m	-	-	3.90	No Standard	Water Level Meter	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
pH at 25 degree C	-	-	-	7.5	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.7	n	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	232	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	81	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

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

n : Not Change from natural condition

**Sampling By :** Teerawat Puangsuk

Approved by

*Siriluk P.*  
Siriluk Puengpang  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC



TESTING  
No.0009  
Lot ID: 2374356  
Date Received : Sep 08, 2023  
Date Reported : Sep 15, 2023  
Report Number : 2697999-1

Page 2 of 4

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.

Approved by

*Siriluk P.*  
Siriluk Puengpang  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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



TESTING  
No.0009

Lot ID: 2374356  
Date Received : Sep 08, 2023  
Date Reported : Sep 15, 2023  
Report Number : 2697999-1

Page 3 of 4

Sample Number	2374356-2						
Sampled Date	Sep 08, 2023 11:15 AM						
Sample Description	Surface water						
Location	แม่น้ำท่าจีน 500 เมตรก่อนเขื่อนลพบุรี-ระยอง						
Date Analysis Commenced	Sep 09, 2023						
Condition of Sample	Contained in two plastic bottles, two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	509	No Standard	Based on Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Depth *	m	-	-	4.60	No Standard	Water Level Meter	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.2	≥4	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
pH at 25 degree C	-	-	-	7.6	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H (B)	Bangkok
Temperature *	Degree C	-	-	31.2	n	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	294	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	72	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

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

Sampling By : Teerawat Puangsuk

Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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



TESTING  
No.0009

Lot ID: 2374356  
Date Received : Sep 08, 2023  
Date Reported : Sep 15, 2023  
Report Number : 2697999-1

Page 4 of 4

### Remark :

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

Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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ทรัพยากรชีวภาพในน้ำ





สถานีวิจัยประมงศรีราชา  
101/12 หมู่ 9 ต. บางพระ  
อ. ศรีราชา จ. ชลบุรี 20110  
โทร./โทรสาร. (038) 311379

Client : Gulf JP TLC Co., Ltd.

Address : 20 Moo 1 Taling Chan, Mueang, Saraburi, Thailand, 18000

Project Name : Monitoring EIA

Project Location : GTLC

#### รายงานผลการวิเคราะห์แหล่งกอนพืช

ตาราง ผลการวิเคราะห์แหล่งกอนพืช (เก็บตัวอย่างวันที่ 8 กันยายน 2566)

ชนิดแหล่งกอนพืช	ปริมาณแหล่งกอนพืช (หน่วยต่อลูกบาศก์เมตร)	
	2374373-1	2374373-2
Division Cyanophyta		
Class Cyanophyceae		
Order Nostocales		
Family Oscillatoriaceae		
1. <i>Lyngbya contorta</i>	49,000	-
2. <i>Lyngbya limnetica</i>	-	14,000
Family Nostocaceae		
3. <i>Cylindrospermum majus</i>	25,000	28,000
4. <i>Raphidiopsis mediterranea</i>	37,000	41,000
Division Chlorophyta		
Class Chlorophyceae		
Order Volvocales		
Family Volvocaceae		
5. <i>Pandorina morum</i>	12,000	-

ตาราง ผลการวิเคราะห์แหล่งกอนพืช (เก็บตัวอย่างวันที่ 8 กันยายน 2566)

(ต่อ)

ชนิดแหล่งกอนพืช	ปริมาณแหล่งกอนพืช (หน่วยต่อลูกบาศก์เมตร)	
	2374373-1	2374373-2
Order Chlorococcales		
Family Hydrodictyaceae		
6. <i>Pediastrum tetras</i>	12,000	-
Family Coelastraceae		
7. <i>Coelastrum microporum</i>	-	28,000
8. <i>Coelastrum sphaericum</i>	12,000	14,000
Family Oocystaceae		
9. <i>Ankistrodesmus falcatus</i>	12,000	14,000
10. <i>Ankistrodesmus</i> sp.	12,000	-
11. <i>Chlorella vulgaris</i>	-	28,000
12. <i>Dictyosphaerium pulchellum</i>	12,000	-
Family Scenedesmaceae		
13. <i>Scenedesmus arcuatus</i>	-	28,000
14. <i>Scenedesmus armatus</i>	12,000	-
Class Euglenophyceae		
Order Euglenales		
Family Euglenaceae		
15. <i>Euglena acus</i>	12,000	-
16. <i>Euglena oxyuris</i>	-	28,000
17. <i>Euglena viridis</i>	12,000	-
18. <i>Lepocinclis ovum</i>	136,000	28,000
19. <i>Phacus</i> sp.	-	14,000
20. <i>Strombomonas girardiana</i>	12,000	-
21. <i>Trachelomonas crebea</i>	62,000	28,000
22. <i>Trachelomonas hispida</i>	420,000	97,000
23. <i>Trachelomonas mirabilis</i>	37,000	-
24. <i>Trachelomonas rugulosa</i>	25,000	-


ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 8 กันยายน 2566)

(ต่อ)

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)	
	2374373-1	2374373-2
25. <i>Trachelomonas superba</i>	12,000	-
<b>Division Chromophyta</b>		
<b>Class Bacillariophyceae</b>		
<b>Order Biddulphiales</b>		
<b>Suborder Coscinodiscineae</b>		
<b>Family Aulacoseiraceae</b>		
26. <i>Aulacoseira granulata</i>	124,000	152,000
<b>Order Bacillariales</b>		
<b>Suborder Fragilariineae</b>		
<b>Family Fragilariaceae</b>		
27. <i>Fragilaria capucina</i>	-	14,000
<b>Suborder Bacillariineae</b>		
<b>Family Cymbellaceae</b>		
28. <i>Gomphonema parvulum</i>	12,000	-
<b>Family Naviculaceae</b>		
29. <i>Gyrosigma attenuatum</i>	25,000	41,000
30. <i>Gyrosigma</i> sp.	12,000	-
31. <i>Navicula</i> sp.	12,000	-
<b>Class Dinophyceae</b>		
<b>Order Peridinales</b>		
<b>Family Peridiniaceae</b>		
32. <i>Peridinium bipes</i>	62,000	28,000
<b>ชนิดแพลงก์ตอนพืช</b>	<b>25</b>	<b>17</b>
<b>ปริมาณแพลงก์ตอนพืช</b>	<b>1,170,000</b>	<b>625,000</b>
<b>ดัชนีความหลากหลายแพลงก์ตอนพืช</b>	<b>2.4226</b>	<b>2.5289</b>
<b>ดัชนีความสม่ำเสมอแพลงก์ตอนพืช</b>	<b>0.7526</b>	<b>0.8926</b>

**Sample Location :** 1. สถานี 2374373-1 : แม่น้ำป่าสัก 500 เมตร เหนือน้ำของจุดสูบน้ำของโรงไฟฟ้า  
2. สถานี 2374373-2 : แม่น้ำป่าสัก 500 เมตร ท้ายน้ำของจุดสูบน้ำของโรงไฟฟ้า

**Condition of Sample :** contained in one plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

  
(นางสาวกนกวรรณ ขาวค้อน)  
ผู้วิเคราะห์

  
(นายอังกศ อินทรชาติ)  
หัวหน้าสถานีวิจัยประมงสัตว์น้ำ





สถานีวิจัยประมงศรีราชา  
101/12 หมู่ 9 ต. บางพระ  
อ. ศรีราชา จ. ชลบุรี 20110  
โทร./โทรสาร. (038) 311379

Client : Gulf JP TLC Co., Ltd.

Address : 20 Moo 1 Taling Chan, Mueang, Saraburi, Thailand, 18000

Project Name : Monitoring EIA

Project Location : GTLC

#### รายงานผลการวิเคราะห์แพลงก์ตอนสัตว์

๓131๖ ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 8 กันยายน 2566)

ชนิดแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)	
	2374373-1	2374373-2
Phylum Protozoa		
Subphylum Ciliophora		
Class Ciliata		
Subclass Spirotricha		
Order Tintinnida		
Family Tintinnidae		
1. <i>Tintinnidium</i> sp.	12,000	14,000
Family Codonellidae		
2. <i>Tintinnopsis cylindriata</i>	25,000	55,000
ชนิดแพลงก์ตอนสัตว์	2	2
ปริมาณแพลงก์ตอนสัตว์	37,000	69,000
ดัชนีความหลากหลายแพลงก์ตอนสัตว์	0.6301	0.5044
ดัชนีความสม่ำเสมอแพลงก์ตอนสัตว์	0.9090	0.7277

Sample Location : 1. สถานี 2374373-1 : เหมน้ำป่าสัก 500 เมตร เหนือน้ำของจุดสูบน้ำของโรงไฟฟ้า  
2. สถานี 2374373-2 : เหมน้ำป่าสัก 500 เมตร ทำนบของจุดสูบน้ำของโรงไฟฟ้า

Condition of Sample : contained in one plastic bottle, sample containers comply to pretreatment-preservation standards (APHA. USEPA)

(นางสาวกนกวรรณ ขาวค่อน)

ผู้วิเคราะห์

(นายอลงกต อินทรชาติ)

หัวหน้าสถานีวิจัยประมงศรีราชา



สถานีวิจัยประมงศรีราชา

101/12 หมู่ 9 ต. บางพระ

อ. ศรีราชา จ. ชลบุรี 20110

โทร./โทรสาร. (038) 311379

Client : Gulf JP TLC Co., Ltd.

Address : 20 Moo 1 Taling Chan, Mueang, Saraburi, Thailand, 18000

Project Name : Monitoring EIA

Project Location : GTLC

#### รายงานผลการวิเคราะห์สัตว์หน้าดิน

ตาราง ผลการวิเคราะห์สัตว์หน้าดิน (เก็บตัวอย่างวันที่ 8 กันยายน 2566)

สกุลสัตว์หน้าดิน	ปริมาณสัตว์หน้าดิน (ตัวต่อตารางเมตร)	
	2374370-1	2374370-2
Phylum Arthropoda		
Class Insecta		
Order Diptera		
Family Chironomidae		
Chironomus sp. (หนอนแดง)	119	45
Phylum Mollusca		
Class Gastropoda		
Order Architaenioglossa		
Family Viviparidae		
Filopaludina sp. (หอยขม)	45	-
สกุลสัตว์หน้าดิน	2	1
ปริมาณสัตว์หน้าดิน	164	45
ค่าดัชนีความหลากหลายสัตว์หน้าดิน	0.5876	0.0000

Sample Location : 1. สถานี 2374370-1 : แม่น้ำป่าสัก 500 เมตรเหนือของจุดสูบน้ำของโรงไฟฟ้า  
2. สถานี 2374370-2 : แม่น้ำป่าสัก 500 เมตรท้ายน้ำของจุดสูบน้ำของโรงไฟฟ้า

Condition of Sample : contained in one plastic zip bag



(นายอรธวุฒิ กันทะวงศ์)

ผู้วิเคราะห์



(นายอลงกต อินทรชาติ)

หัวหน้าสถานีวิจัยประมงศรีราชา



## ภาคผนวก ค-9

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ความเข้มของแสงสว่างในการทำงาน



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 2374786 (1)

Date Received : Sep 10, 2023

Date Reported : Sep 18, 2023

Report Number: 2374786 (1)-1

Page 1 of 1

### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment
1	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 1	2374786 (1)-1	8-Sep-23	Day time	1	403	- 400-500 -	Pass
2	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 2	2374786 (1)-2	8-Sep-23	Day time	1	428	- 400-500 -	Pass
3	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 3	2374786 (1)-3	8-Sep-23	Day time	1	549	- 400-500 -	Pass
4	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 4	2374786 (1)-4	8-Sep-23	Day time	1	536	- 400-500 -	Pass
5	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 5	2374786 (1)-5	8-Sep-23	Day time	1	410	- 400-500 -	Pass
7	Spot : Admin Control Building : 2nd floor : Engineering Room ใต้หลอดไฟเบอร์	2374786 (1)-6	8-Sep-23	Day time	1	495	- 400-500 -	Pass
11	Area : Admin Control Building : 2nd floor : ภายใต้นกัฟไฟเบอร์ Control Room	2374786 (1)-7 2374786 (1)-8 2374786 (1)-9	8-Sep-23 8-Sep-23 8-Sep-23	Day time Day time Day time	1 2 3	208 202 214	50 100	Pass
12	Spot : Admin Control Building : 2nd floor : ภายใต้น Module ภายใต้นกัฟไฟเบอร์	2374786 (1)-10	8-Sep-23	Day time	1	410	- 300-400 -	Pass
13	Spot : Admin Control Building : 2nd floor : ภายใต้น Operation Manager (ใต้หลอดไฟเบอร์)	2374786 (1)-11 2374786 (1)-12 2374786 (1)-13	8-Sep-23 8-Sep-23 8-Sep-23	Day time Day time Day time	1 2 3	1,320 1,293 1,062	- 400-500 - 300 - 200 -	Pass
16	Spot : Admin Control Building : 2nd floor : ใต้หลอดไฟเบอร์	2374786 (1)-14	8-Sep-23	Day time	1	537	- 400-500 -	Pass
17	Spot : Admin Control Building : 2nd floor : 2EAP01 Panel	2374786 (1)-15	8-Sep-23	Day time	1	402	- 300-400 -	Pass
18	Spot : Admin Control Building : 2nd floor : AC-2DB1 Panel	2374786 (1)-16	8-Sep-23	Day time	1	314	- 300-400 -	Pass
19	Spot : Admin Control Building : 2nd floor : ภายใต้น Module ภายใต้น Voltage 6.6 kv	2374786 (1)-17	8-Sep-23	Day time	1	571	- 200-300 -	Pass

Measurement by : Phongsiri Somkaew

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

Technical Management

*Supot S*  
Supot Salamteh  
Section Head

Approved by

*Nichan Chuan*  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 2374786 (2)

Date Received : Sep 10, 2023

Date Reported : Sep 18, 2023

Report Number: 2374786 (2)-1

Page 1 of 2

### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment
1	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 1	2374786 (2)-1	8-Sep-23	Day time	1	482	- 400-500 -	Pass
3	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 3	2374786 (2)-2	8-Sep-23	Day time	1	631	- 400-500 -	Pass
4	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 4	2374786 (2)-3	8-Sep-23	Day time	1	556	- 400-500 -	Pass
5	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 5	2374786 (2)-4	8-Sep-23	Day time	1	446	- 400-500 -	Pass
6	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 6	2374786 (2)-5	8-Sep-23	Day time	1	424	- 400-500 -	Pass
7	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 7	2374786 (2)-6	8-Sep-23	Day time	1	653	- 400-500 -	Pass
9	Spot : Admin Control Building : 3rd floor : EHS Manager ใต้หลอดไฟเบอร์	2374786 (2)-7	8-Sep-23	Day time	1	471	- 400-500 -	Pass
10	Spot : Admin Control Building : 3rd floor : HR&Admin Manager ใต้หลอดไฟเบอร์	2374786 (2)-8	8-Sep-23	Day time	1	528	- 400-500 -	Pass
11	Area : Admin Control Building : 3rd floor : Meeting Room 2	2374786 (2)-9 2374786 (2)-10 2374786 (2)-11 2374786 (2)-12	8-Sep-23 8-Sep-23 8-Sep-23 8-Sep-23	Day time Day time Day time Day time	1 2 3 4	750 681 498 496	606 150 300	Pass

Technical Management

*Supot S*  
Supot Salamteh  
Section Head

Approved by

*Nichan Chuan*  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location:** GTLC

**Lot ID: 2374786 (2)**

Date Received : Sep 10, 2023  
Date Reported : Sep 18, 2023  
Report Number: 2374786 (2)-1

Page 2 of 2

GTL										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
12	Area : Admin Control Building : 3rd floor : Meeting Room 1	2374786 (2)-13	8-Sep-23	Day time	1	669	1046	150	300	Pass
		2374786 (2)-14	8-Sep-23	Day time	2	793				
		2374786 (2)-15	8-Sep-23	Day time	3	864				
		2374786 (2)-16	8-Sep-23	Day time	4	929				
		2374786 (2)-17	8-Sep-23	Day time	5	1,259				
		2374786 (2)-18	8-Sep-23	Day time	6	1,536				
		2374786 (2)-19	8-Sep-23	Day time	7	1,138				
		2374786 (2)-20	8-Sep-23	Day time	8	1,177				
13	Area : Admin Control Building : 3rd floor : Pantry Room	2374786 (2)-21	8-Sep-23	Day time	1	422	467	150	300	Pass
		2374786 (2)-22	8-Sep-23	Day time	2	404				
		2374786 (2)-23	8-Sep-23	Day time	3	537				
		2374786 (2)-24	8-Sep-23	Day time	4	505				
14	Spot : Admin Control Building : 3rd floor : Plant Manager ใต้ห้องงาน	2374786 (2)-25	8-Sep-23	Day time	1	490		400-500		Pass
16	Area : Admin Control Building : 3rd floor : Server Room 1	2374786 (2)-26	8-Sep-23	Day time	1	368	338	100	200	Pass
		2374786 (2)-27	8-Sep-23	Day time	2	309				
17	Spot : Admin Control Building : 3rd floor : Spare Room : ใต้ห้องงาน	2374786 (2)-28	8-Sep-23	Day time	1	729		400-500		Pass
18	Area : Admin Control Building : 3rd floor : พงศกัณธภัณฑ์ Admin	2374786 (2)-29	8-Sep-23	Day time	1	211	237	50	100	Pass
		2374786 (2)-30	8-Sep-23	Day time	2	220				
		2374786 (2)-31	8-Sep-23	Day time	3	281				
19	Area : Admin Control Building : 3rd floor : บันไดทางขึ้นระหว่างชั้น 2 และ 3	2374786 (2)-32	8-Sep-23	Day time	1	128	514	50	100	Pass
		2374786 (2)-33	8-Sep-23	Day time	2	1,201				
		2374786 (2)-34	8-Sep-23	Day time	3	213				
21	Area : Admin Control Building : 3rd floor : ห้องโถงประชาสัมพันธ์	2374786 (2)-35	8-Sep-23	Day time	1	302	300	150	300	Pass
		2374786 (2)-36	8-Sep-23	Day time	2	299				

Measurement by : Phongsini Somkaew

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

Technical Management

*Supot S.*  
Supot Salimthet  
Section Head

Approved by

*Wichan Choonharat*  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location:** GTLC

**Lot ID: 2374786 (3)**

Date Received : Sep 10, 2023  
Date Reported : Sep 18, 2023  
Report Number: 2374786 (3)-1

Page 1 of 1

GTL										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Administration Control Building : 1st floor : Meeting Room 3	2374786 (3)-1	8-Sep-23	Day time	1	462	458	150	300	Pass
		2374786 (3)-2	8-Sep-23	Day time	2	487				
		2374786 (3)-3	8-Sep-23	Day time	3	465				
		2374786 (3)-4	8-Sep-23	Day time	4	417				
2	Area : Administration Control Building : 1st floor : พงศกัณธภัณฑ์ Breaker	2374786 (3)-5	8-Sep-23	Day time	1	459	506	50	100	Pass
		2374786 (3)-6	8-Sep-23	Day time	2	459				
		2374786 (3)-7	8-Sep-23	Day time	3	335				
		2374786 (3)-8	8-Sep-23	Day time	4	771				
3	Area : Administration Control Building : 1st floor : บันไดทางขึ้นระหว่างชั้น 1 และชั้น 2	2374786 (3)-9	8-Sep-23	Day time	1	196	346	50	100	Pass
		2374786 (3)-10	8-Sep-23	Day time	2	540				
		2374786 (3)-11	8-Sep-23	Day time	3	303				
4	Area : Administration Control Building : 1st floor : ห้อง Breaker บริเวณห้องใต้ดิน	2374786 (3)-12	8-Sep-23	Day time	1	202	225	100	200	Pass
		2374786 (3)-13	8-Sep-23	Day time	2	249				
		2374786 (3)-14	8-Sep-23	Day time	3	244				
		2374786 (3)-15	8-Sep-23	Day time	4	248				
		2374786 (3)-16	8-Sep-23	Day time	5	213				
		2374786 (3)-17	8-Sep-23	Day time	6	194				
5	Area : Administration Control Building : 1st floor : ห้อง Breaker (บนอาคาร)	2374786 (3)-18	8-Sep-23	Day time	1	389	378	50	100	Pass
		2374786 (3)-19	8-Sep-23	Day time	2	366				

Measurement by : Phongsini Somkaew

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

Technical Management

*Supot S.*  
Supot Salimthet  
Section Head

Approved by

*Wichan Choonharat*  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 2374786 (4)

Date Received : Sep 10, 2023

Date Reported : Sep 18, 2023

Report Number: 2374786 (4)-1

Page 1 of 2

GTLC										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Maintenance Shop : 2nd floor : Maintenance Manager (พนักงาน)	2374786 (4)-1	8-Sep-23	Day time	1	414	364	150	300	Pass
		2374786 (4)-2	8-Sep-23	Day time	2	315				
2	Spot : Maintenance Shop : 2nd floor : Maintenance Manager (พนักงาน)	2374786 (4)-3	8-Sep-23	Day time	1	1,075	--	400-500	--	Pass
		2374786 (4)-4	8-Sep-23	Day time	2	966	--	300	--	
		2374786 (4)-5	8-Sep-23	Day time	3	1,224	--	200	--	
3	Area : Maintenance Shop : 2nd floor : Meeting Room	2374786 (4)-6	8-Sep-23	Day time	1	575	530	150	300	Pass
		2374786 (4)-7	8-Sep-23	Day time	2	500				
		2374786 (4)-8	8-Sep-23	Day time	3	581				
		2374786 (4)-9	8-Sep-23	Day time	4	463				
5	Area : Maintenance Shop : 2nd floor : ทางเดินขึ้นห้องผลิต	2374786 (4)-10	8-Sep-23	Day time	1	238	296	50	100	Pass
		2374786 (4)-11	8-Sep-23	Day time	2	332				
		2374786 (4)-12	8-Sep-23	Day time	3	319				
7	Spot : Maintenance Shop : 2nd floor : ห้อง C&I (พนักงาน 1)	2374786 (4)-13	8-Sep-23	Day time	1	462	--	400-500	--	Pass
8	Spot : Maintenance Shop : 2nd floor : ห้อง C&I (พนักงาน 2)	2374786 (4)-14	8-Sep-23	Day time	1	450	--	400-500	--	Pass
9	Spot : Maintenance Shop : 2nd floor : ห้อง C&I (พนักงาน 3)	2374786 (4)-15	8-Sep-23	Day time	1	601	--	400-500	--	Pass
10	Spot : Maintenance Shop : 2nd floor : ห้อง C&I (พนักงาน 4)	2374786 (4)-16	8-Sep-23	Day time	1	619	--	400-500	--	Pass
12	Spot : Maintenance Shop : 2nd floor : ห้อง Electrical (พนักงาน 1)	2374786 (4)-17	8-Sep-23	Day time	1	415	--	400-500	--	Pass
13	Spot : Maintenance Shop : 2nd floor : ห้อง Electrical (พนักงาน 2)	2374786 (4)-18	8-Sep-23	Day time	1	445	--	400-500	--	Pass
14	Spot : Maintenance Shop : 2nd floor : ห้อง Electrical (พนักงาน 3)	2374786 (4)-19	8-Sep-23	Day time	1	403	--	400-500	--	Pass
15	Spot : Maintenance Shop : 2nd floor : ห้อง Electrical (พนักงาน 4)	2374786 (4)-20	8-Sep-23	Day time	1	403	--	400-500	--	Pass
16	Spot : Maintenance Shop : 2nd floor : ห้อง Mechanical (พนักงาน 1)	2374786 (4)-21	8-Sep-23	Day time	1	425	--	400-500	--	Pass
17	Spot : Maintenance Shop : 2nd floor : ห้อง Mechanical (พนักงาน 2)	2374786 (4)-22	8-Sep-23	Day time	1	501	--	400-500	--	Pass

Technical Management

*Supot S.*

Supot Salameth  
Section Head

Approved by

*Wichan Choonharat*

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 2374786 (4)

Date Received : Sep 10, 2023

Date Reported : Sep 18, 2023

Report Number: 2374786 (4)-1

Page 2 of 2

GTLC										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
19	Spot : Maintenance Shop : 2nd floor : ห้อง Mechanical (พนักงาน 4	2374786 (4)-23	8-Sep-23	Day time	1	449	-	400-500	-	Pass
20	Area : Maintenance Shop : 2nd floor : ห้องเอกสาร	2374786 (4)-24	8-Sep-23	Day time	1	690	530	150	300	Pass
		2374786 (4)-25	8-Sep-23	Day time	2	369				
21	Area : Maintenance Shop : 2nd floor : ยืนโดยทางบันไดระหว่างชั้น 1 และชั้น 2 (ฝั่งเครื่องถ่ายเอกสาร)	2374786 (4)-26	8-Sep-23	Day time	1	180	180	50	100	Pass
		2374786 (4)-27	8-Sep-23	Day time	2	161				
		2374786 (4)-28	8-Sep-23	Day time	3	198				
22	Spot : Maintenance Shop : 2nd floor : Meeting Room : ห้องคอมพิวเตอร์	2374786 (4)-29	8-Sep-23	Day time	1	451	-	400-500	-	Pass

Measurement by : Phongsin Somkaew

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

Technical Management

*Supot S.*

Supot Salameth  
Section Head

Approved by

*Wichan Choonharat*

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 2374786 (5)

Date Received : Sep 10, 2023

Date Reported : Sep 18, 2023

Report Number: 2374786 (5)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Maintenance Shop : Ground floor : Tool Room	2374786 (5)-1	8-Sep-23	Day time	1	212	202	50	100	Pass
		2374786 (5)-2	8-Sep-23	Day time	2	246				
		2374786 (5)-3	8-Sep-23	Day time	3	221				
		2374786 (5)-4	8-Sep-23	Day time	4	131				
2	Spot : Maintenance Shop : Ground floor : Warehouse Room วัสดุงาน 1	2374786 (5)-5	8-Sep-23	Day time	1	441	-	400-500	-	Pass
4	Area : Maintenance Shop : Ground floor : Work Shop C&I	2374786 (5)-6	8-Sep-23	Day time	1	419	420	150	300	Pass
		2374786 (5)-7	8-Sep-23	Day time	2	442				
		2374786 (5)-8	8-Sep-23	Day time	3	441				
		2374786 (5)-9	8-Sep-23	Day time	4	376				
5	Area : Maintenance Shop : Ground floor : Workshop Warehouse	2374786 (5)-10	8-Sep-23	Day time	1	614	492	150	300	Pass
		2374786 (5)-11	8-Sep-23	Day time	2	616				
		2374786 (5)-12	8-Sep-23	Day time	3	672				
		2374786 (5)-13	8-Sep-23	Day time	4	604				
		2374786 (5)-14	8-Sep-23	Day time	5	644				
		2374786 (5)-15	8-Sep-23	Day time	6	517				
		2374786 (5)-16	8-Sep-23	Day time	7	404				
		2374786 (5)-17	8-Sep-23	Day time	8	423				
		2374786 (5)-18	8-Sep-23	Day time	9	414				
		2374786 (5)-19	8-Sep-23	Day time	10	340				
		2374786 (5)-20	8-Sep-23	Day time	11	339				
		2374786 (5)-21	8-Sep-23	Day time	12	321				
6	Area : Maintenance Shop : Ground floor : Workshop Warehouse Store ชั้นบน (Rack H&I)	2374786 (5)-22	8-Sep-23	Day time	1	633	589	100	200	Pass
		2374786 (5)-23	8-Sep-23	Day time	2	394				
		2374786 (5)-24	8-Sep-23	Day time	3	768				
		2374786 (5)-25	8-Sep-23	Day time	4	455				
		2374786 (5)-26	8-Sep-23	Day time	5	694				
7	Area : Maintenance Shop : Ground floor : Workshop Warehouse Store ชั้นล่าง (Rack E&F)	2374786 (5)-27	8-Sep-23	Day time	1	270	274	100	200	Pass
		2374786 (5)-28	8-Sep-23	Day time	2	277				
		2374786 (5)-29	8-Sep-23	Day time	3	276				
		2374786 (5)-30	8-Sep-23	Day time	4	278				
		2374786 (5)-31	8-Sep-23	Day time	5	271				
8	Area : Maintenance Shop : Ground floor : โรงเชื่อมสายเคเบิล	2374786 (5)-32	8-Sep-23	Day time	1	302	309	150	300	Pass
		2374786 (5)-33	8-Sep-23	Day time	2	316				

Technical Management:

*Supot S*  
Supot Salameh  
Section Head

Approved by

*Wichan Choonharat*  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 2374786 (5)

Date Received : Sep 10, 2023

Date Reported : Sep 18, 2023

Report Number: 2374786 (5)-1

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
9	Area : Maintenance Shop : Ground floor : ห้องเก็บของ Workshop	2374786 (5)-34	8-Sep-23	Day time	1	367	361	50	100	Pass
		2374786 (5)-35	8-Sep-23	Day time	2	325				
		2374786 (5)-36	8-Sep-23	Day time	3	392				
10	Area : Maintenance Shop : Ground floor : ห้อง Mechanical & Electrical Workshop	2374786 (5)-37	8-Sep-23	Day time	1	320	321	150	300	Pass
		2374786 (5)-38	8-Sep-23	Day time	2	309				
		2374786 (5)-39	8-Sep-23	Day time	3	321				
		2374786 (5)-40	8-Sep-23	Day time	4	356				
		2374786 (5)-41	8-Sep-23	Day time	5	332				
		2374786 (5)-42	8-Sep-23	Day time	6	327				
		2374786 (5)-43	8-Sep-23	Day time	7	296				
		2374786 (5)-44	8-Sep-23	Day time	8	302				
		2374786 (5)-45	8-Sep-23	Day time	9	324				
11	Area : Maintenance Shop : Ground floor : Temp. Control	2374786 (5)-46	8-Sep-23	Day time	1	494	440	50	100	Pass
		2374786 (5)-47	8-Sep-23	Day time	2	386				
12	Area : Maintenance Shop : Ground floor : Server Room	2374786 (5)-48	8-Sep-23	Day time	1	343	375	100	200	Pass
		2374786 (5)-49	8-Sep-23	Day time	2	407				
13	Spot : Maintenance Shop : Ground floor : Warehouse Room วัสดุงาน 2	2374786 (5)-50	8-Sep-23	Day time	1	410	-	400-500	-	Pass

Measurement by : Phongsiri Somkaew

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

Technical Management:

*Supot S*  
Supot Salameh  
Section Head

Approved by

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Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 2374786 (6)

Date Received : Sep 10, 2023

Date Reported : Sep 18, 2023

Report Number: 2374786 (6)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	GTLC		Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	Spot/Min	Average	
1	Spot : Water Treatment Control Building : Ground floor : Damin, Water Plant (Lab) : Operator Plant 1	2374786 (6)-1	8-Sep-23	Day time	1	416	-	400-500	-	-	-	Pass
2	Spot : Water Treatment Control Building : Ground floor : Damin, Water Plant (Lab) : 1	2374786 (6)-2	8-Sep-23	Day time	1	587	-	400-500	-	-	-	Pass
3	Spot : Water Treatment Control Building : Ground floor : Damin, Water Plant (Lab) : 2	2374786 (6)-3	8-Sep-23	Day time	1	428	-	400-500	-	-	-	Pass
4	Spot : Water Treatment Control Building : Ground floor : Damin, Water Plant (Lab) : Hood Lab	2374786 (6)-4	8-Sep-23	Day time	1	407	-	400-500	-	-	-	Pass
5	Area : Water Treatment Control Building : Ground floor : Damin, Water Plant (Lab) : Breaker 1	2374786 (6)-5	8-Sep-23	Day time	1	220	240	100	200	-	-	Pass
		2374786 (6)-6	8-Sep-23	Day time	2	297						
		2374786 (6)-7	8-Sep-23	Day time	3	252						
		2374786 (6)-8	8-Sep-23	Day time	4	190						
6	Spot : Water Treatment Control Building : Ground floor : Damin, Water Plant (Lab) : Lab (จุดตรวจ pH)	2374786 (6)-9	8-Sep-23	Day time	1	767	-	400-500	-	-	-	Pass
7	Spot : Water Treatment Control Building : Ground floor : Damin, Water Plant (Lab) : Lab (จุดตรวจ pH)	2374786 (6)-10	8-Sep-23	Day time	1	405	-	400-500	-	-	-	Pass

Measurement by : Phongsiri Somkaew

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

Technical Management

*Supot S.*  
Supot Salamitah  
Section Head

Approved by

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Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 2374786 (7)

Date Received : Sep 10, 2023

Date Reported : Sep 18, 2023

Report Number: 2374786 (7)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	GTLC		Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	Spot/Min	Average	
1	Area : Substation : Breaker 1	2374786 (7)-1	8-Sep-23	Day time	1	217	241	100	200	-	-	Pass
		2374786 (7)-2	8-Sep-23	Day time	2	205						
		2374786 (7)-3	8-Sep-23	Day time	3	329						
		2374786 (7)-4	8-Sep-23	Day time	4	212						
2	Area : Substation : Breaker 1 (หม้อแปลง)	2374786 (7)-5	8-Sep-23	Day time	1	110	108	50	100	-	-	Pass
		2374786 (7)-6	8-Sep-23	Day time	2	106						
3	Area : Substation : Breaker 2	2374786 (7)-7	8-Sep-23	Day time	1	378	369	100	200	-	-	Pass
		2374786 (7)-8	8-Sep-23	Day time	2	443						
		2374786 (7)-9	8-Sep-23	Day time	3	386						
		2374786 (7)-10	8-Sep-23	Day time	4	269						
4	Area : Substation : Breaker 2 (หม้อแปลง)	2374786 (7)-11	8-Sep-23	Day time	1	104	110	50	100	-	-	Pass
		2374786 (7)-12	8-Sep-23	Day time	2	116						

Measurement by : Phongsiri Somkaew

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

Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 23131997 (1)

Date Received : Dec 09, 2023  
Date Reported : Dec 26, 2023  
Report Number: 23131997 (1)-1

Page 1 of 1

GTLC										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 1	23131997 (1)-1	7-Dec-23	Night time	1	434	-	400-500	-	Pass
2	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 2	23131997 (1)-2	7-Dec-23	Night time	1	404	-	400-500	-	Pass
3	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 3	23131997 (1)-3	7-Dec-23	Night time	1	420	-	400-500	-	Pass
4	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 4	23131997 (1)-4	7-Dec-23	Night time	1	417	-	400-500	-	Pass
5	Spot : Admin Control Building : 2nd floor : Control Room ใต้หลอดไฟเบอร์ 5	23131997 (1)-5	7-Dec-23	Night time	1	468	-	400-500	-	Pass
7	Spot : Admin Control Building : 2nd floor : Engineering Room ใต้หลอดไฟเบอร์	23131997 (1)-6	7-Dec-23	Night time	1	415	-	400-500	-	Pass
11	Area : Admin Control Building : 2nd floor : ทางเดินหน้าห้อง Control Room	23131997 (1)-7	7-Dec-23	Night time	1	177	186	50	100	Pass
		23131997 (1)-8	7-Dec-23	Night time	2	173				
		23131997 (1)-9	7-Dec-23	Night time	3	207				
12	Spot : Admin Control Building : 2nd floor : ว่าง Module ว่างๆ	23131997 (1)-10	7-Dec-23	Night time	1	305	-	300-400	-	Pass
13	Spot : Admin Control Building : 2nd floor : ว่าง Operation Manager (ใต้หลอดไฟ)	23131997 (1)-11	7-Dec-23	Night time	1	482	-	400-500	-	Pass
16	Spot : Admin Control Building : 2nd floor : ว่าง	23131997 (1)-12	7-Dec-23	Night time	1	438	-	400-500	-	Pass
17	Spot : Admin Control Building : 2nd floor : 2EAP01 Panel	23131997 (1)-13	7-Dec-23	Night time	1	324	-	300-400	-	Pass
18	Spot : Admin Control Building : 2nd floor : AC-2DB1 Panel	23131997 (1)-14	7-Dec-23	Night time	1	357	-	300-400	-	Pass
19	Spot : Admin Control Building : 2nd floor : ว่าง Module ว่างๆ Voltage 6.6 kv	23131997 (1)-15	7-Dec-23	Night time	1	440	-	200-300	-	Pass

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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Supt Salameh  
Section Head

Approved by

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Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 23131997 (2)

Date Received : Dec 09, 2023  
Date Reported : Dec 26, 2023  
Report Number: 23131997 (2)-1

Page 1 of 2

GTLC										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 1	23131997 (2)-1	7-Dec-23	Night time	1	496	-	400-500	-	Pass
3	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 3	23131997 (2)-2	7-Dec-23	Night time	1	498	-	400-500	-	Pass
4	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 4	23131997 (2)-3	7-Dec-23	Night time	1	598	-	400-500	-	Pass
5	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 5	23131997 (2)-4	7-Dec-23	Night time	1	514	-	400-500	-	Pass
6	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 6	23131997 (2)-5	7-Dec-23	Night time	1	431	-	400-500	-	Pass
7	Spot : Admin Control Building : 3rd floor : Admin Purchase IT AND Environment Health and Safety ใต้หลอดไฟเบอร์ 7	23131997 (2)-6	7-Dec-23	Night time	1	416	-	400-500	-	Pass
9	Spot : Admin Control Building : 3rd floor : EHS Manager ใต้หลอดไฟเบอร์	23131997 (2)-7	7-Dec-23	Night time	1	431	-	400-500	-	Pass
10	Spot : Admin Control Building : 3rd floor : HR&Admin Manager ใต้หลอดไฟเบอร์	23131997 (2)-8	7-Dec-23	Night time	1	428	-	400-500	-	Pass
11	Area : Admin Control Building : 3rd floor : Meeting Room 2	23131997 (2)-9	7-Dec-23	Night time	1	710	734	150	300	Pass
		23131997 (2)-10	7-Dec-23	Night time	2	763				
		23131997 (2)-11	7-Dec-23	Night time	3	707				
		23131997 (2)-12	7-Dec-23	Night time	4	756				

Technical Management

*Supt S*  
Supt Salameh  
Section Head

Approved by

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Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (2)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (2)-1

Page 2 of 2

### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment
12	Area : Admin Control Building : 3rd floor : Meeting Room 1	23131997 (2)-13	7-Dec-23	Night time	1	846	698	Pass
		23131997 (2)-14	7-Dec-23	Night time	2	906		
		23131997 (2)-15	7-Dec-23	Night time	3	861		
		23131997 (2)-16	7-Dec-23	Night time	4	599		
		23131997 (2)-17	7-Dec-23	Night time	5	496		
		23131997 (2)-18	7-Dec-23	Night time	6	654		
		23131997 (2)-19	7-Dec-23	Night time	7	682		
		23131997 (2)-20	7-Dec-23	Night time	8	544		
13	Area : Admin Control Building : 3rd floor : Pantry Room	23131997 (2)-21	7-Dec-23	Night time	1	320	311	Pass
		23131997 (2)-22	7-Dec-23	Night time	2	302		
		23131997 (2)-23	7-Dec-23	Night time	3	311		
		23131997 (2)-24	7-Dec-23	Night time	4	310		
14	Spot : Admin Control Building : 3rd floor : Plant Manager โต๊ะทำงาน	23131997 (2)-25	7-Dec-23	Night time	1	472	- 400-500 -	Pass
16	Area : Admin Control Building : 3rd floor : Server Room 1	23131997 (2)-26	7-Dec-23	Night time	1	395	396	Pass
		23131997 (2)-27	7-Dec-23	Night time	2	397		
17	Spot : Admin Control Building : 3rd floor : Spare Room : โต๊ะทำงาน	23131997 (2)-28	7-Dec-23	Night time	1	564	- 400-500 -	Pass
18	Area : Admin Control Building : 3rd floor : ทางเดินหน้าห้อง Admin	23131997 (2)-29	7-Dec-23	Night time	1	174	227	Pass
		23131997 (2)-30	7-Dec-23	Night time	2	183	50	
		23131997 (2)-31	7-Dec-23	Night time	3	323	100	
19	Area : Admin Control Building : 3rd floor : บันไดทางขึ้นระหว่างชั้น 2 และ 3	23131997 (2)-32	7-Dec-23	Night time	1	143	115	Pass
		23131997 (2)-33	7-Dec-23	Night time	2	51	50	
		23131997 (2)-34	7-Dec-23	Night time	3	152	100	
21	Area : Admin Control Building : 3rd floor : ห้องครัวอาหารกลางวัน	23131997 (2)-35	7-Dec-23	Night time	1	336	325	Pass
		23131997 (2)-36	7-Dec-23	Night time	2	314	300	

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (3)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (3)-1

Page 1 of 1

### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment
1	Area : Administration Control Building : 1st floor : Meeting Room 3	23131997 (3)-1	7-Dec-23	Night time	1	467	462	Pass
		23131997 (3)-2	7-Dec-23	Night time	2	469	150	
		23131997 (3)-3	7-Dec-23	Night time	3	460	300	
		23131997 (3)-4	7-Dec-23	Night time	4	450		
2	Area : Administration Control Building : 1st floor : ทางเดินหน้าห้อง Breaker	23131997 (3)-5	7-Dec-23	Night time	1	302	311	Pass
		23131997 (3)-6	7-Dec-23	Night time	2	327	50	
		23131997 (3)-7	7-Dec-23	Night time	3	306	100	
		23131997 (3)-8	7-Dec-23	Night time	4	309		
3	Area : Administration Control Building : 1st floor : บันไดทางขึ้นระหว่างชั้น 1 และชั้น 2	23131997 (3)-9	7-Dec-23	Night time	1	148	129	Pass
		23131997 (3)-10	7-Dec-23	Night time	2	75	50	
		23131997 (3)-11	7-Dec-23	Night time	3	163	100	
4	Area : Administration Control Building : 1st floor : ห้อง Breaker บริเวณหน้าห้องควบคุมอาคาร	23131997 (3)-12	7-Dec-23	Night time	1	201	256	Pass
		23131997 (3)-13	7-Dec-23	Night time	2	233	100	
		23131997 (3)-14	7-Dec-23	Night time	3	287	200	
		23131997 (3)-15	7-Dec-23	Night time	4	273		
		23131997 (3)-16	7-Dec-23	Night time	5	258		
		23131997 (3)-17	7-Dec-23	Night time	6	284		
5	Area : Administration Control Building : 1st floor : ห้อง Breaker (แป้นกด)	23131997 (3)-18	7-Dec-23	Night time	1	443	402	Pass
		23131997 (3)-19	7-Dec-23	Night time	2	362	50	

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (4)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (4)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTLC		Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	Spot/Min	Average	
1	Area : Maintenance Shop : 2nd floor : Maintenance Manager (หน้าอาคาร)	23131997 (4)-1	7-Dec-23	Night time	1	434	439	150	300			Pass
		23131997 (4)-2	7-Dec-23	Night time	2	444						
2	Spot : Maintenance Shop : 2nd floor : Maintenance Manager (หน้าอาคาร)	23131997 (4)-3	7-Dec-23	Night time	1	606	-	400-500	-			Pass
3	Area : Maintenance Shop : 2nd floor : Meeting Room	23131997 (4)-4	7-Dec-23	Night time	1	362	416	150	300			Pass
		23131997 (4)-5	7-Dec-23	Night time	2	328						
		23131997 (4)-6	7-Dec-23	Night time	3	355						
		23131997 (4)-7	7-Dec-23	Night time	4	619						
5	Area : Maintenance Shop : 2nd floor : ทางเดินหน้าอาคาร	23131997 (4)-8	7-Dec-23	Night time	1	346	307	50	100			Pass
		23131997 (4)-9	7-Dec-23	Night time	2	288						
		23131997 (4)-10	7-Dec-23	Night time	3	287						
7	Spot : Maintenance Shop : 2nd floor : ทาง C&I (หน้าอาคาร 1)	23131997 (4)-11	7-Dec-23	Night time	1	447	-	400-500	-			Pass
8	Spot : Maintenance Shop : 2nd floor : ทาง C&I (หน้าอาคาร 2)	23131997 (4)-12	7-Dec-23	Night time	1	405	-	400-500	-			Pass
9	Spot : Maintenance Shop : 2nd floor : ทาง C&I (หน้าอาคาร 3)	23131997 (4)-13	7-Dec-23	Night time	1	570	-	400-500	-			Pass
10	Spot : Maintenance Shop : 2nd floor : ทาง C&I (หน้าอาคาร 4)	23131997 (4)-14	7-Dec-23	Night time	1	594	-	400-500	-			Pass
12	Spot : Maintenance Shop : 2nd floor : ทาง Electrical (หน้าอาคาร 1)	23131997 (4)-15	7-Dec-23	Night time	1	472	-	400-500	-			Pass
13	Spot : Maintenance Shop : 2nd floor : ทาง Electrical (หน้าอาคาร 2)	23131997 (4)-16	7-Dec-23	Night time	1	496	-	400-500	-			Pass
14	Spot : Maintenance Shop : 2nd floor : ทาง Electrical (หน้าอาคาร 3)	23131997 (4)-17	7-Dec-23	Night time	1	446	-	400-500	-			Pass
15	Spot : Maintenance Shop : 2nd floor : ทาง Electrical (หน้าอาคาร 4)	23131997 (4)-18	7-Dec-23	Night time	1	481	-	400-500	-			Pass
16	Spot : Maintenance Shop : 2nd floor : ทาง Mechanical (หน้าอาคาร 1)	23131997 (4)-19	7-Dec-23	Night time	1	478	-	400-500	-			Pass
17	Spot : Maintenance Shop : 2nd floor : ทาง Mechanical (หน้าอาคาร 2)	23131997 (4)-20	7-Dec-23	Night time	1	481	-	400-500	-			Pass

Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (4)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (4)-1

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTLC		Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	Spot/Min	Average	
19	Spot : Maintenance Shop : 2nd floor : ทาง Mechanical (หน้าอาคาร 4)	23131997 (4)-21	7-Dec-23	Night time	1	403	-	400-500	-			Pass
20	Area : Maintenance Shop : 2nd floor : ทางอาคาร	23131997 (4)-22	7-Dec-23	Night time	1	774	578	150	300			Pass
		23131997 (4)-23	7-Dec-23	Night time	2	383						
21	Area : Maintenance Shop : 2nd floor : บันไดทางขึ้นรถบรรทุกชั้น 1 และชั้น 2 (ฝั่งอาคารเก่าอาคาร)	23131997 (4)-24	7-Dec-23	Night time	1	123	136	50	100			Pass
		23131997 (4)-25	7-Dec-23	Night time	2	96						
		23131997 (4)-26	7-Dec-23	Night time	3	189						
22	Spot : Maintenance Shop : 2nd floor : Meeting Room : ใต้ถุนอาคาร	23131997 (4)-27	7-Dec-23	Night time	1	497	-	400-500	-			Pass

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (5)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (5)-1

Page 1 of 1

### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
8	Area : Maintenance Shop : Ground floor : โรงซ่อมยานยนต์	23131997 (5)-1	7-Dec-23	Night time	1	312	310	150	300	Pass
		23131997 (5)-2	7-Dec-23	Night time	2	309				
9	Area : Maintenance Shop : Ground floor : ทางเชื่อมระหว่าง Workshop	23131997 (5)-3	7-Dec-23	Night time	1	369	356	50	100	Pass
		23131997 (5)-4	7-Dec-23	Night time	2	344				
		23131997 (5)-5	7-Dec-23	Night time	3	356				
10	Area : Maintenance Shop : Ground floor : Vase Mechanical & Electrical Workshop	23131997 (5)-6	7-Dec-23	Night time	1	298	328	150	300	Pass
		23131997 (5)-7	7-Dec-23	Night time	2	304				
		23131997 (5)-8	7-Dec-23	Night time	3	351				
		23131997 (5)-9	7-Dec-23	Night time	4	379				
		23131997 (5)-10	7-Dec-23	Night time	5	361				
		23131997 (5)-11	7-Dec-23	Night time	6	305				
		23131997 (5)-12	7-Dec-23	Night time	7	290				
		23131997 (5)-13	7-Dec-23	Night time	8	321				
12	Area : Maintenance Shop : Ground floor : Server Room	23131997 (5)-15	7-Dec-23	Night time	1	427	398	100	200	Pass
		23131997 (5)-16	7-Dec-23	Night time	2	368				

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (6)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (6)-1

Page 1 of 1

### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Water Treatment Control Building : Ground floor : Damin. Water Plant (Lab) : Operator Plant 1	23131997 (6)-1	7-Dec-23	Night time	1	410	-	400-500	-	Pass
2	Spot : Water Treatment Control Building : Ground floor : Damin. Water Plant (Lab) : 1	23131997 (6)-2	7-Dec-23	Night time	1	404	-	400-500	-	Pass
3	Spot : Water Treatment Control Building : Ground floor : Damin. Water Plant (Lab) : 2	23131997 (6)-3	7-Dec-23	Night time	1	408	-	400-500	-	Pass
4	Spot : Water Treatment Control Building : Ground floor : Damin. Water Plant (Lab) : 3	23131997 (6)-4	7-Dec-23	Night time	1	412	-	400-500	-	Pass
5	Area : Water Treatment Control Building : Ground floor : Damin. Water Plant (Lab) : 4	23131997 (6)-5	7-Dec-23	Night time	1	338	284	100	200	Pass
		23131997 (6)-6	7-Dec-23	Night time	2	331				
		23131997 (6)-7	7-Dec-23	Night time	3	201				
		23131997 (6)-8	7-Dec-23	Night time	4	266				
6	Spot : Water Treatment Control Building : Ground floor : Damin. Water Plant (Lab) : 5	23131997 (6)-9	7-Dec-23	Night time	1	401	-	400-500	-	Pass
7	Spot : Water Treatment Control Building : Ground floor : Damin. Water Plant (Lab) : 6	23131997 (6)-10	7-Dec-23	Night time	1	405	-	400-500	-	Pass

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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

Lot ID: 23131997 (7)

Date Received : Dec 09, 2023  
Date Reported : Dec 26, 2023  
Report Number: 23131997 (7)-1

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : อาคาร Substation : โรง Breaker 1 (อาคารเครื่อง)	23131997 (7)-1	7-Dec-23	Night time	1	209	239	100	200	Pass
		23131997 (7)-2	7-Dec-23	Night time	2	201				
		23131997 (7)-3	7-Dec-23	Night time	3	344				
		23131997 (7)-4	7-Dec-23	Night time	4	202				
2	Area : อาคาร Substation : โรง Breaker 1 (อาคารเครื่อง)	23131997 (7)-5	7-Dec-23	Night time	1	150	154	50	100	Pass
		23131997 (7)-6	7-Dec-23	Night time	2	157				
3	Area : อาคาร Substation : โรง Breaker 2 (อาคารเครื่อง)	23131997 (7)-7	7-Dec-23	Night time	1	279	312	100	200	Pass
		23131997 (7)-8	7-Dec-23	Night time	2	316				
		23131997 (7)-9	7-Dec-23	Night time	3	356				
		23131997 (7)-10	7-Dec-23	Night time	4	297				
4	Area : อาคาร Substation : โรง Breaker 2 (อาคารเครื่อง)	23131997 (7)-11	7-Dec-23	Night time	1	113	116	50	100	Pass
		23131997 (7)-12	7-Dec-23	Night time	2	119				

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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

Lot ID: 23131997 (8)

Date Received : Dec 09, 2023  
Date Reported : Dec 26, 2023  
Report Number: 23131997 (8)-1

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : พื้นที่บริเวณโรง 6.6 KV : ทางเดิน สายไฟฟ้า (1)	23131997 (8)-1	7-Dec-23	Night time	1	30	91	25	50	Pass
		23131997 (8)-2	7-Dec-23	Night time	2	112				
		23131997 (8)-3	7-Dec-23	Night time	3	130				
2	Area : พื้นที่บริเวณโรง 6.6 KV : ทางเดิน สายไฟฟ้า (2)	23131997 (8)-4	7-Dec-23	Night time	1	45	76	25	50	Pass
		23131997 (8)-5	7-Dec-23	Night time	2	55				
		23131997 (8)-6	7-Dec-23	Night time	3	128				

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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## Analysis / Test Report

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P/O :

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23131997 (9)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (9)-1

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### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment
1	Area : Generator 12 : ทาหัง Control	23131997 (9)-1	7-Dec-23	Night time	1	230	236	Pass
		23131997 (9)-2	7-Dec-23	Night time	2	241	100 200	
2	Area : Generator 12 : ทาหังเครื่อง Gas Turbine 12	23131997 (9)-3	7-Dec-23	Night time	1	64	58	Pass
		23131997 (9)-4	7-Dec-23	Night time	2	81	25 50	
		23131997 (9)-5	7-Dec-23	Night time	3	48		
		23131997 (9)-6	7-Dec-23	Night time	4	41		
3	Area : Generator 12 : ทาหัง Control GT 12	23131997 (9)-7	7-Dec-23	Night time	1	567	639	Pass
		23131997 (9)-8	7-Dec-23	Night time	2	692		
		23131997 (9)-9	7-Dec-23	Night time	3	737		
		23131997 (9)-10	7-Dec-23	Night time	4	689		
		23131997 (9)-11	7-Dec-23	Night time	5	510		
4	Area : Generator 12 : Boiler Feed Pump 12	23131997 (9)-12	7-Dec-23	Night time	1	289	306	Pass
		23131997 (9)-13	7-Dec-23	Night time	2	327	100 200	
		23131997 (9)-14	7-Dec-23	Night time	3	276		
		23131997 (9)-15	7-Dec-23	Night time	4	287		
		23131997 (9)-16	7-Dec-23	Night time	5	341		
		23131997 (9)-17	7-Dec-23	Night time	6	314		
5	Area : Generator 12 : CPH 12	23131997 (9)-18	7-Dec-23	Night time	1	234	330	Pass
		23131997 (9)-19	7-Dec-23	Night time	2	385		
		23131997 (9)-20	7-Dec-23	Night time	3	454		
		23131997 (9)-21	7-Dec-23	Night time	4	246		
6	Area : Generator 12 : Cem 12 (ถังหมัก)	23131997 (9)-22	7-Dec-23	Night time	1	494	480	Pass
		23131997 (9)-23	7-Dec-23	Night time	2	465	100 200	
7	Area : Generator 12 : Sampling Rack 12	23131997 (9)-24	7-Dec-23	Night time	1	309	295	Pass
		23131997 (9)-25	7-Dec-23	Night time	2	281	100 200	

Measurement by : Jiramet Prasertsirong

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

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## Analysis / Test Report

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Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23131997 (10)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (10)-1

Page 1 of 1

### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment
1	Area : Steam Turbine : 1st Floor : STG Lube Oil : ทาหังเครื่องหล่อลื่น	23131997 (10)-1	7-Dec-23	Night time	1	111	126	Pass
		23131997 (10)-2	7-Dec-23	Night time	2	155	25 50	
		23131997 (10)-3	7-Dec-23	Night time	3	138		
		23131997 (10)-4	7-Dec-23	Night time	4	149		
		23131997 (10)-5	7-Dec-23	Night time	5	148		
		23131997 (10)-6	7-Dec-23	Night time	6	101		
		23131997 (10)-7	7-Dec-23	Night time	7	98		
		23131997 (10)-8	7-Dec-23	Night time	8	109		
		23131997 (10)-9	7-Dec-23	Night time	9	129		
2	Area : Steam Turbine : 1st Floor : Condenser (ทาสั่น)	23131997 (10)-10	7-Dec-23	Night time	1	197	220	Pass
		23131997 (10)-11	7-Dec-23	Night time	2	202	25 50	
		23131997 (10)-12	7-Dec-23	Night time	3	226		
		23131997 (10)-13	7-Dec-23	Night time	4	214		
		23131997 (10)-14	7-Dec-23	Night time	5	108		
		23131997 (10)-15	7-Dec-23	Night time	6	485		
		23131997 (10)-16	7-Dec-23	Night time	7	107		
3	Area : Steam Turbine : 1st Floor : ทาสั่นเครื่องปั่น 1 - ชั้น 2	23131997 (10)-17	7-Dec-23	Night time	1	99	90	Pass
		23131997 (10)-18	7-Dec-23	Night time	2	101	25 50	
		23131997 (10)-19	7-Dec-23	Night time	3	71		

Measurement by : Jiramet Prasertsirong

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

Technical Management

*Supot S.*  
Supot Salamteh  
Section Head

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Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (11)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (11)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
I	Area : Cooling Tower : ทาเลียมตันกัก Pump	23131997 (11)-1	7-Dec-23	Night time	1	72	64	25	50	Pass
		23131997 (11)-2	7-Dec-23	Night time	2	53				
		23131997 (11)-3	7-Dec-23	Night time	3	55				
		23131997 (11)-4	7-Dec-23	Night time	4	58				
		23131997 (11)-5	7-Dec-23	Night time	5	70				
		23131997 (11)-6	7-Dec-23	Night time	6	78				
		23131997 (11)-7	7-Dec-23	Night time	7	64				

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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Supot Salamtah  
Section Head

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Assistant Manager

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20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (12)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (12)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
I	Area : Air Compressor : บริเวณเครื่องอัดอากาศ	23131997 (12)-1	7-Dec-23	Night time	1	320	348	100	200	Pass
		23131997 (12)-2	7-Dec-23	Night time	2	376				

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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## Analysis / Test Report

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20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23131997 (13)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (13)-1

Page 1 of 1

### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment
1	Area : Generator 11 : ชั๊นบสลด : พาง เช็น Stack ผังรณ	23131997 (13)-1	7-Dec-23	Night time	1	81	25 50	Pass
		23131997 (13)-2	7-Dec-23	Night time	2	70		
2	Area : Generator 11 : ชั๊นบสลด : พาง เช็นผังรณ	23131997 (13)-3	7-Dec-23	Night time	1	138	25 50	Pass
		23131997 (13)-4	7-Dec-23	Night time	2	198		
		23131997 (13)-5	7-Dec-23	Night time	3	55		
		23131997 (13)-6	7-Dec-23	Night time	4	93		
		23131997 (13)-7	7-Dec-23	Night time	5	57		
		23131997 (13)-8	7-Dec-23	Night time	6	52		
		23131997 (13)-9	7-Dec-23	Night time	7	101		
		23131997 (13)-10	7-Dec-23	Night time	8	71		
		23131997 (13)-11	7-Dec-23	Night time	9	83		

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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P/O :

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23131997 (14)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (14)-1

Page 1 of 1

### GTLC

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment
1	Area : โรงรณรณ : พางผังรณ	23131997 (14)-1	7-Dec-23	Night time	1	52	25 50	Pass
		23131997 (14)-2	7-Dec-23	Night time	2	55		
2	Area : โรงรณรณ : Demin Plant : พาง เช็นผังรณ	23131997 (14)-3	7-Dec-23	Night time	1	111	50 100	Pass
		23131997 (14)-4	7-Dec-23	Night time	2	145		
		23131997 (14)-5	7-Dec-23	Night time	3	156		
		23131997 (14)-6	7-Dec-23	Night time	4	182		
		23131997 (14)-7	7-Dec-23	Night time	5	153		
		23131997 (14)-8	7-Dec-23	Night time	6	124		
3	Area : โรงรณรณ : Demin Plant : พาง เช็นผังรณ	23131997 (14)-9	7-Dec-23	Night time	1	153	25 50	Pass
		23131997 (14)-10	7-Dec-23	Night time	2	55		
		23131997 (14)-11	7-Dec-23	Night time	3	111		
		23131997 (14)-12	7-Dec-23	Night time	4	53		
		23131997 (14)-13	7-Dec-23	Night time	5	197		
		23131997 (14)-14	7-Dec-23	Night time	6	58		
		23131997 (14)-15	7-Dec-23	Night time	7	47		
		23131997 (14)-16	7-Dec-23	Night time	8	189		

Measurement by : Jiramet Prasertsiripong

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

Technical Management

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Supot Salameh  
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## Analysis / Test Report

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20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (15)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (15)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : โรงร่อนน้ำ : Demin Pump : พื้นที่กระบวนการผลิต	23131997 (15)-1	7-Dec-23	Night time	1	362	418	150	300	Pass
		23131997 (15)-2	7-Dec-23	Night time	2	333				
		23131997 (15)-3	7-Dec-23	Night time	3	422				
		23131997 (15)-4	7-Dec-23	Night time	4	556				
2	Area : โรงร่อนน้ำ : Fire Pump : ทา่งเก็บกากใบชา	23131997 (15)-5	7-Dec-23	Night time	1	322	315	50	100	Pass
		23131997 (15)-6	7-Dec-23	Night time	2	231				
		23131997 (15)-7	7-Dec-23	Night time	3	537				
		23131997 (15)-8	7-Dec-23	Night time	4	232				
		23131997 (15)-9	7-Dec-23	Night time	5	251				

Measurement by : Jiramet Prasertsirpong

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

Technical Management

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P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (16)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (16)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : โรงร่อนน้ำ : พื้นที่ MMF : ทา่งเก็บกากใบชา	23131997 (16)-1	7-Dec-23	Night time	1	135	93	25	50	Pass
		23131997 (16)-2	7-Dec-23	Night time	2	58				
		23131997 (16)-3	7-Dec-23	Night time	3	79				
		23131997 (16)-4	7-Dec-23	Night time	4	48				
		23131997 (16)-5	7-Dec-23	Night time	5	70				
		23131997 (16)-6	7-Dec-23	Night time	6	110				
		23131997 (16)-7	7-Dec-23	Night time	7	98				
		23131997 (16)-8	7-Dec-23	Night time	8	57				
		23131997 (16)-9	7-Dec-23	Night time	9	183				

Measurement by : Jiramet Prasertsirpong

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

Technical Management

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Assistant Manager

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P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (17)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (17)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : โรงงานผลิต : โรงงาน	23131997 (17)-1	7-Dec-23	Night time	1	423	430	-	100	Pass
		23131997 (17)-2	7-Dec-23	Night time	2	438				

Measurement by : Jiramek Prasertsiripong

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

Technical Management

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P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (18)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (18)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Steam Turbine : 2nd Floor : โรงงาน	23131997 (18)-1	7-Dec-23	Night time	1	151	119	25	50	Pass
	พื้นที่ Line ผลิต	23131997 (18)-2	7-Dec-23	Night time	2	105				
		23131997 (18)-3	7-Dec-23	Night time	3	101				
		23131997 (18)-4	7-Dec-23	Night time	4	89				
		23131997 (18)-5	7-Dec-23	Night time	5	141				
		23131997 (18)-6	7-Dec-23	Night time	6	101				
		23131997 (18)-7	7-Dec-23	Night time	7	86				
		23131997 (18)-8	7-Dec-23	Night time	8	181				

Measurement by : Jiramek Prasertsiripong

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

Technical Management

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## Analysis / Test Report

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P/O :

Project Name : Monitoring EIA

Project Location: GTLC

Lot ID: 23131997 (19)

Date Received : Dec 09, 2023

Date Reported : Dec 26, 2023

Report Number: 23131997 (19)-1

Page 1 of 1

### GTLC

Lay out: No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Steam Turbine : ส่วนงาน : โรงไฟฟ้า Line ผลิต	23131997 (19)-1	7-Dec-23	Night time	1	108	103	25	50	Pass
		23131997 (19)-2	7-Dec-23	Night time	2	98				

Measurement by : Jiramek Prasertsirpong

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

Technical Management

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Supot Salameh  
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## ภาคผนวก ค-10

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ระดับเสียงเฉลี่ย 8 ชั่วโมง (Leq 8 hrs.)





## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390491  
Date Received : Sep 09, 2023  
Date Reported : Sep 14, 2023  
Report Number: 2777220-1

Page 1 of 1

Sample Number : 2390491-1  
Parameter : Noise (Leq 8 hrs.)  
Location : Combustion Gas Turbine 11  
Measurement Date : Sep 08, 2023  
Measurement by : Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	82.2	93.5	79.7
09:30 AM - 10:30 AM	82.7	87.0	80.0
10:30 AM - 11:30 AM	81.2	85.7	78.8
11:30 AM - 12:30 PM	81.4	87.3	78.7
12:30 PM - 01:30 PM	81.6	86.1	78.7
01:30 PM - 02:30 PM	82.2	86.8	79.6
02:30 PM - 03:30 PM	80.0	86.3	76.5
03:30 PM - 04:30 PM	81.8	87.2	79.1

Leq Average 8 hrs. (dB(A)) : 81.7  
Lmax (dB(A)) : 93.5  
Standard (dB(A)) : 90  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง  
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๖๖

Technical Management

*Orawan R.*  
Orawan Rakyoung  
Scientist (3)

Approved by

*Supot S.*  
Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390491  
Date Received : Sep 09, 2023  
Date Reported : Sep 14, 2023  
Report Number: 2777221-1

Page 1 of 1

Sample Number : 2390491-2  
Parameter : Noise (Leq 8 hrs.)  
Location : Steam Turbine  
Measurement Date : Sep 08, 2023  
Measurement by : Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	84.8	93.3	84.3
09:30 AM - 10:30 AM	84.5	85.1	84.3
10:30 AM - 11:30 AM	84.3	85.0	84.0
11:30 AM - 12:30 PM	84.5	85.4	84.1
12:30 PM - 01:30 PM	84.3	85.1	84.0
01:30 PM - 02:30 PM	84.0	84.6	83.5
02:30 PM - 03:30 PM	84.4	85.3	84.0
03:30 PM - 04:30 PM	84.4	85.4	84.2

Leq Average 8 hrs. (dB(A)) : 84.4  
Lmax (dB(A)) : 93.3  
Standard (dB(A)) : 90  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง  
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Technical Management

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Scientist (3)

Approved by

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Supot Salamteh  
Section Head

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S:\Reports\_Air Noise.rpt ( 7:04PM)



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390491  
Date Received : Sep 09, 2023  
Date Reported : Sep 14, 2023  
Report Number: 2777222-1

Page 1 of 1

Sample Number : 2390491-3  
Parameter : Noise (Leq 8 hrs.)  
Location : Heat Recover Steam Generator (HRSG) 11  
Measurement Date : Sep 08, 2023  
Measurement by : Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	79.6	91.3	78.6
09:30 AM - 10:30 AM	79.4	81.2	78.7
10:30 AM - 11:30 AM	79.0	81.4	78.1
11:30 AM - 12:30 PM	78.3	85.5	77.5
12:30 PM - 01:30 PM	78.1	80.4	77.4
01:30 PM - 02:30 PM	77.9	80.1	77.3
02:30 PM - 03:30 PM	78.0	80.1	77.4
03:30 PM - 04:30 PM	78.1	79.9	77.5

Leq Average 8 hrs. (dB(A)) : 78.6  
Lmax (dB(A)) : 91.3  
Standard (dB(A)) : 90  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ  
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Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

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

Lot ID: 2390491  
Date Received : Sep 09, 2023  
Date Reported : Sep 14, 2023  
Report Number: 2777222-1

Page 1 of 1

Sample Number : 2390491-4  
Parameter : Noise (Leq 8 hrs.)  
Location : Cooling Tower  
Measurement Date : Sep 08, 2023  
Measurement by : Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	80.1	93.8	80.0
09:30 AM - 10:30 AM	80.1	80.5	80.0
10:30 AM - 11:30 AM	80.1	80.5	80.0
11:30 AM - 12:30 PM	80.2	82.0	80.1
12:30 PM - 01:30 PM	80.2	80.7	80.1
01:30 PM - 02:30 PM	80.2	80.7	80.0
02:30 PM - 03:30 PM	80.2	80.7	80.1
03:30 PM - 04:30 PM	80.3	80.9	80.2

Leq Average 8 hrs. (dB(A)) : 80.2  
Lmax (dB(A)) : 93.8  
Standard (dB(A)) : 90  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการตรวจวัดมลพิษ  
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Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390491

Date Received : Sep 09, 2023

Date Reported : Oct 12, 2023

Report Number: 2777224-1 Rev. No.1

Page 1 of 1

Sample Number : 2390491-5  
Parameter : Noise (Leq 8 hrs.)  
Location : Control Room  
Measurement Date : Sep 08, 2023  
Measurement by : Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	59.4	79.6	52.8
09:30 AM - 10:30 AM	63.0	83.9	53.1
10:30 AM - 11:30 AM	59.4	82.6	52.5
11:30 AM - 12:30 PM	60.8	81.3	52.5
12:30 PM - 01:30 PM	59.6	76.2	52.6
01:30 PM - 02:30 PM	66.3	86.0	52.6
02:30 PM - 03:30 PM	60.5	80.9	52.7
03:30 PM - 04:30 PM	58.8	75.0	53.0

Leq Average 8 hrs. (dB(A))

61.8

Lmax (dB(A))

86.0

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียงและผลกระทบจากเสียง  
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Note : This Analysis test report is reissued to supersede report No. 2777224-1 Date Reported : Sep 14, 2023 due to revise Sample information.

Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O :

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390491

Date Received : Sep 09, 2023

Date Reported : Sep 14, 2023

Report Number: 2777226-1

Page 1 of 1

Sample Number : 2390491-7  
Parameter : Noise (Leq 8 hrs.)  
Location : Combustion Gas Turbine 12  
Measurement Date : Sep 08, 2023  
Measurement by : Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	78.7	83.1	77.2
09:30 AM - 10:30 AM	78.6	83.2	77.1
10:30 AM - 11:30 AM	78.3	83.0	76.8
11:30 AM - 12:30 PM	78.4	82.6	76.9
12:30 PM - 01:30 PM	78.9	83.6	77.1
01:30 PM - 02:30 PM	79.0	85.4	77.2
02:30 PM - 03:30 PM	78.2	85.2	76.7
03:30 PM - 04:30 PM	78.5	83.0	77.2

Leq Average 8 hrs. (dB(A))

78.6

Lmax (dB(A))

85.4

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดระดับเสียงและผลกระทบจากเสียง  
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Technical Management

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## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GTLC

**Lot ID: 2390491**  
**Date Received :** Sep 09, 2023  
**Date Reported :** Sep 14, 2023  
**Report Number:** 2777222-1

Page 1 of 1

**Sample Number** 2390491-8  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Heat Recover Steam Generator (HRSG) 12  
**Measurement Date** Sep 08, 2023  
**Measurement by** Phongsiri Somkaew

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	80.8	81.7	80.5
09:30 AM - 10:30 AM	80.6	81.5	80.3
10:30 AM - 11:30 AM	80.4	81.4	80.1
11:30 AM - 12:30 PM	80.3	84.2	80.1
12:30 PM - 01:30 PM	80.6	82.0	80.2
01:30 PM - 02:30 PM	80.6	82.1	80.3
02:30 PM - 03:30 PM	80.6	81.6	80.3
03:30 PM - 04:30 PM	80.5	81.4	80.3

Leq Average 8 hrs. (dB(A)) 80.6  
Lmax (dB(A)) 84.2  
Standard (dB(A)) 90  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดผลของเสียงพลัดด้วย  
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## Analysis / Test Report

**Client :** Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
**P/O :** 4105005113  
**Project Name :** Monitoring EIA  
**Project Location :** GTLC

**Lot ID: 23131998**  
**Date Received :** Dec 08, 2023  
**Date Reported :** Dec 12, 2023  
**Report Number:** 2861483-1

Page 1 of 1

**Sample Number** 23131998-1  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Combustion Gas Turbine 11  
**Measurement Date** Dec 07, 2023  
**Measurement by** Jiramet Prasertsinpong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:47 AM - 09:47 AM	72.5	77.5	71.8
09:47 AM - 10:47 AM	72.4	77.1	71.8
10:47 AM - 11:47 AM	72.5	76.9	71.8
11:47 AM - 12:47 PM	73.0	77.3	72.0
12:47 PM - 01:47 PM	80.8	87.0	74.9
01:47 PM - 02:47 PM	77.4	83.0	75.4
02:47 PM - 03:47 PM	77.6	83.9	75.5
03:47 PM - 04:47 PM	77.8	83.5	75.6

Leq Average 8 hrs. (dB(A)) 76.6  
Lmax (dB(A)) 87.0  
Standard (dB(A)) 90  
Reference Method : Based on ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดผลของเสียงพลัดด้วย  
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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23131998  
Date Received : Dec 08, 2023  
Date Reported : Dec 12, 2023  
Report Number: 2861484-1

Page 1 of 1

Sample Number : 23131998-2  
Parameter : Noise (Leq 8 hrs.)  
Location : Steam Turbine  
Measurement Date : Dec 07, 2023  
Measurement by : Jirame Prasertsiripong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:50 AM - 09:50 AM	84.8	85.9	84.4
09:50 AM - 10:50 AM	84.4	85.6	84.1
10:50 AM - 11:50 AM	84.3	84.7	84.1
11:50 AM - 12:50 PM	84.4	85.0	84.1
12:50 PM - 01:50 PM	85.0	86.1	84.8
01:50 PM - 02:50 PM	84.7	85.4	84.4
02:50 PM - 03:50 PM	84.7	85.6	84.1
03:50 PM - 04:50 PM	84.2	85.0	84.0

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความพลอดภัย  
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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23131998  
Date Received : Dec 08, 2023  
Date Reported : Dec 12, 2023  
Report Number: 2861485-1

Page 1 of 1

Sample Number : 23131998-3  
Parameter : Noise (Leq 8 hrs.)  
Location : Heat Recover Steam Generator (HRSG) 11  
Measurement Date : Dec 07, 2023  
Measurement by : Jirame Prasertsiripong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:49 AM - 09:49 AM	80.6	82.6	80.1
09:49 AM - 10:49 AM	80.8	82.4	80.2
10:49 AM - 11:49 AM	80.8	82.5	80.3
11:49 AM - 12:49 PM	81.1	83.2	80.5
12:49 PM - 01:49 PM	79.4	82.6	78.6
01:49 PM - 02:49 PM	78.8	80.8	78.5
02:49 PM - 03:49 PM	79.1	80.6	78.7
03:49 PM - 04:49 PM	78.9	80.5	78.5

Leq Average 8 hrs. (dB(A))

Lmax (dB(A))

Standard (dB(A))

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความพลอดภัย  
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Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23131998

Date Received : Dec 06, 2023

Date Reported : Dec 12, 2023

Report Number: 2861486-1

Page 1 of 1

Sample Number : 23131998-4  
Parameter : Noise (Leq 8 hrs.)  
Location : Cooling Tower  
Measurement Date : Dec 07, 2023  
Measurement by : Jiramet Prasertsiripong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:49 AM - 09:49 AM	81.8	83.0	81.7
09:49 AM - 10:49 AM	81.7	82.4	81.6
10:49 AM - 11:49 AM	81.8	82.4	81.6
11:49 AM - 12:49 PM	82.1	82.7	81.9
12:49 PM - 01:49 PM	81.2	82.7	80.1
01:49 PM - 02:49 PM	80.4	81.1	80.2
02:49 PM - 03:49 PM	80.3	80.9	80.2
03:49 PM - 04:49 PM	80.4	81.0	80.3

Leq Average 8 hrs. (dB(A))

81.3

Lmax (dB(A))

83.0

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง  
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Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23131998

Date Received : Dec 06, 2023

Date Reported : Dec 12, 2023

Report Number: 2861487-1

Page 1 of 1

Sample Number : 23131998-5  
Parameter : Noise (Leq 8 hrs.)  
Location : Control Room  
Measurement Date : Dec 07, 2023  
Measurement by : Jiramet Prasertsiripong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:57 AM - 09:57 AM	63.9	85.0	52.5
09:57 AM - 10:57 AM	63.2	86.0	52.5
10:57 AM - 11:57 AM	59.5	83.2	52.4
11:57 AM - 12:57 PM	61.9	82.1	52.6
12:57 PM - 01:57 PM	59.6	81.8	53.2
01:57 PM - 02:57 PM	65.4	84.5	53.2
02:57 PM - 03:57 PM	63.4	84.8	53.2
03:57 PM - 04:57 PM	65.8	85.4	53.4

Leq Average 8 hrs. (dB(A))

63.4

Lmax (dB(A))

86.0

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดความดังเสียง  
ในการประกอบกิจการโรงงานเกี่ยวกับวิธีการวัดและบันทึกค่าเสียง พ.ศ.๒๕๔๖

Technical Management

*Orawan R.*

Orawan Rakyong  
Scientist (3)

Approved by

*Supot S.*

Supot Salamtehi  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23131998

Date Received : Dec 08, 2023

Date Reported : Dec 12, 2023

Report Number: 2861489-1

Page 1 of 1

Sample Number 23131998-7  
Parameter Noise (Leq 8 hrs.)  
Location Combustion Gas Turbine 12  
Measurement Date Dec 07, 2023  
Measurement by Jiramet Prasertsiripong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:40 AM - 09:40 AM	75.3	76.5	75.1
09:40 AM - 10:40 AM	75.6	77.3	75.4
10:40 AM - 11:40 AM	75.5	77.4	75.3
11:40 AM - 12:40 PM	75.4	76.6	75.1
12:40 PM - 01:40 PM	77.8	82.9	75.3
01:40 PM - 02:40 PM	79.4	84.4	77.6
02:40 PM - 03:40 PM	79.3	84.3	77.8
03:40 PM - 04:40 PM	79.6	84.0	78.0

Leq Average 8 hrs. (dB(A))

77.6

Lmax (dB(A))

84.4

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดผลของเสียง  
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Technical Management

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23131998

Date Received : Dec 08, 2023

Date Reported : Dec 12, 2023

Report Number: 2861490-1

Page 1 of 1

Sample Number 23131998-8  
Parameter Noise (Leq 8 hrs.)  
Location Heat Recover Steam Generator (HRSG) 12  
Measurement Date Dec 07, 2023  
Measurement by Jiramet Prasertsiripong

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:38 AM - 09:38 AM	78.4	79.6	77.9
09:38 AM - 10:38 AM	78.0	79.3	77.4
10:38 AM - 11:38 AM	77.6	79.2	76.9
11:38 AM - 12:38 PM	77.0	78.1	76.6
12:38 PM - 01:38 PM	76.8	77.8	76.5
01:38 PM - 02:38 PM	76.7	80.1	76.4
02:38 PM - 03:38 PM	77.0	78.3	76.7
03:38 PM - 04:38 PM	76.9	78.2	76.6

Leq Average 8 hrs. (dB(A))

77.3

Lmax (dB(A))

80.1

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการวัดผลของเสียง  
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ระดับความร้อน





## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2374787  
Date Received : Sep 09, 2023  
Date Reported : Sep 12, 2023  
Report Number: 2735505-1

Page 1 of 5

Sample Number 2374787-1  
Parameter Heat Stress (Sampling Time :10.00 AM - 12.00 PM )  
Measurement Date Sep 08, 2023  
Measurement by Wasan Treenakul  
Location ปฏบัติงาน 1 พื้นที่ (ห้อง-นวมฤตฯ อุปกรณ์ใช้งาน : - แพรก :- )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
โรงกลั่น Combustion Gas Turbine Generator 11	120	30.9	28.3	37.7	35.1
Average (WBGT)		30.9			
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 Choonharat*

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2374787  
Date Received : Sep 09, 2023  
Date Reported : Sep 12, 2023  
Report Number: 2735505-1

Page 2 of 5

Sample Number 2374787-2  
Parameter Heat Stress (Sampling Time :10.00 AM - 12.00 PM )  
Measurement Date Sep 08, 2023  
Measurement by Wasan Treenakul  
Location ปฏบัติงาน 1 พื้นที่ (ห้อง-นวมฤตฯ อุปกรณ์ใช้งาน : - แพรก :- )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
โรงกลั่น Heat Recover Steam Generator (HRSG) 11	120	30.2	27.5	36.8	35.5
Average (WBGT)		30.2			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

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

Technical Management

*Supot S.*

Supot Salamteh  
Section Head

Approved by

*Wichan Choonharat*

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
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P/O :  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2374787  
Date Received : Sep 09, 2023  
Date Reported : Sep 12, 2023  
Report Number: 2735505-1

Page 3 of 5

Sample Number : 2374787-3  
Parameter : Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
Measurement Date : Sep 08, 2023  
Measurement by : Wasan Treenakul  
Location : ปรังคังงาน 1 พื้นที่ (เปิด-ตามปกติ ปรังคังงาน : - - - - -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปรังคังงาน Steam Turbine Generator	120	29.9	27.3	36.4	34.7
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

*Supt S*  
Supot Salamteh  
Section Head

Approved by

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Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

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

Lot ID: 2374787  
Date Received : Sep 09, 2023  
Date Reported : Sep 12, 2023  
Report Number: 2735505-1

Page 4 of 5

Sample Number : 2374787-4  
Parameter : Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
Measurement Date : Sep 08, 2023  
Measurement by : Wasan Treenakul  
Location : ปรังคังงาน 1 พื้นที่ (เปิด-ตามปกติ ปรังคังงาน : - - - - -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Combustion Gas Turbine Generator 12	120	28.9	26.3	35.4	33.8
Average (WBGT)		28.9			
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

*Supt S*  
Supot Salamteh  
Section Head

Approved by

*Wichan Chm*  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

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P/O :

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2374787

Date Received : Sep 09, 2023

Date Reported : Sep 12, 2023

Report Number: 2735505-1

Page 5 of 5

Sample Number 2374787-5  
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
Measurement Date Sep 08, 2023  
Measurement by Wasan Treenakul  
Location ปรังเฒ่างาน 1 พื้นที่ (ห้อง-งานผลิต กุ้งแปรรูป : - แยก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Heat Recover Steam Generator (HRS) 12	120	29.7	27.0	36.7	34.7
Average (WBGT)		29.7			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

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

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 23132000

Date Received : Dec 08, 2023

Date Reported : Dec 11, 2023

Report Number: 2833407-1

Page 1 of 5

Sample Number 23132000-1  
Parameter Heat Stress (Sampling Time : 10.02 AM - 12.02 PM)  
Measurement Date Dec 07, 2023  
Measurement by Jiramet Prasertsirong  
Location ปรังเฒ่างาน 1 พื้นที่ (ห้อง-งานผลิต กุ้งแปรรูป : - แยก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Combustion Gas Turbine Generator 11	120	24.3	22.1	29.5	29.4
Average (WBGT)		24.3			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

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

Technical Management

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Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23132000  
Date Received : Dec 08, 2023  
Date Reported : Dec 11, 2023  
Report Number: 2833407-1

Page 2 of 5

Sample Number : 23132000-2  
Parameter : Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
Measurement Date : Dec 07, 2023  
Measurement by : Jiramet Prasertsirpong  
Location : ปล่องพลังงาน 1 พื้นที่ (ฝั่ง-ทางออก) ปล่องพลังงาน :- แยก :- )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปล่อง Combustion Gas Turbine Generator 12	120	25.9	23.2	32.6	31.6
Average (WBGT)		25.9			
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 Salamteh  
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## Analysis / Test Report

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20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23132000  
Date Received : Dec 08, 2023  
Date Reported : Dec 11, 2023  
Report Number: 2833407-1

Page 3 of 5

Sample Number : 23132000-3  
Parameter : Heat Stress (Sampling Time : 10.04 AM - 12.04 PM)  
Measurement Date : Dec 07, 2023  
Measurement by : Jiramet Prasertsirpong  
Location : ปล่องพลังงาน 1 พื้นที่ (ฝั่ง-ทางออก) ปล่องพลังงาน :- แยก :- )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปล่อง Heat Recovery Steam Generator (HRSG) 11	120	25.2	22.8	30.8	30.7
Average (WBGT)		25.2			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

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

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23132000  
Date Received : Dec 08, 2023  
Date Reported : Dec 11, 2023  
Report Number: 2833407-1

Page 4 of 5

Sample Number : 23132000-4  
Parameter : Heat Stress (Sampling Time : 10.01 AM - 12.01 PM)  
Measurement Date : Dec 07, 2023  
Measurement by : Jiramet Prasertsiripong  
Location : ปล่องกังหัน 1 พื้นที่ (โต๊ะ-นางนาค ปล่องกังหัน : - แยก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปล่องกังหัน Heat Recovery Steam Generator (HRSG) 12	120	28.0	24.6	36.2	35.1
Average (WBGT)		28.0			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

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

Technical Management

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Supot Salamteh  
Section Head

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## Analysis / Test Report

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P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23132000  
Date Received : Dec 08, 2023  
Date Reported : Dec 11, 2023  
Report Number: 2833407-1

Page 5 of 5

Sample Number : 23132000-5  
Parameter : Heat Stress (Sampling Time : 10.06 AM - 12.06 PM)  
Measurement Date : Dec 07, 2023  
Measurement by : Jiramet Prasertsiripong  
Location : ปล่องกังหัน 1 พื้นที่ (โต๊ะ-นางนาค ปล่องกังหัน : - แยก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปล่องกังหัน Steam Turbine Generator	120	29.3	27.4	34.2	33.2
Average (WBGT)		29.3			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

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

Technical Management

*Supot S.*  
Supot Salamteh  
Section Head

Approved by

*Wichan Ch.*  
Wichan Choonharat  
Assistant Manager

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## ภาคผนวก ค-12

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คุณภาพอากาศบริเวณการทำงาน





## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390505

Date Received : Sep 09, 2023

Date Reported : Sep 21, 2023

Report Number : 2735520-1

Page 1 of 4

Sample Number 2390505-1  
Sampled Date Sep 08, 2023  
Sample Description Air Quality  
Location Cooling Tower  
Date Analysis Commenced Sep 12, 2023  
Condition of Sample Drawn into one filter paper placed in plastic cassette, one amber plastic bottle and one sorbent tube, refrigerated  
Barometric Pressure 756 mmHg  
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Chlorine	10:50 AM - 12:50 PM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok
Sodium hydroxide as NaOH	10:50 AM - 12:50 PM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Bangkok
Sulfuric acid	10:50 AM - 12:50 PM	mg/m3	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok

### Guideline :

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

Sampled By : Phongsiri Somkaew

### Remark :

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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12/24/23/09/08



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.

20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000

P/O : 4105005113

Project Name : Monitoring EIA

Project Location : GTLC

Lot ID: 2390505

Date Received : Sep 09, 2023

Date Reported : Sep 21, 2023

Report Number : 2735520-1

Page 2 of 4

Sample Number 2390505-2  
Sampled Date Sep 08, 2023  
Sample Description Air Quality  
Location Demin Water Plant  
Date Analysis Commenced Sep 12, 2023  
Condition of Sample Drawn into one filter paper placed in plastic cassette, one amber plastic bottle and one sorbent tube, refrigerated  
Barometric Pressure 756 mmHg  
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Chlorine	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok
Sodium hydroxide as NaOH	10:00 AM - 12:00 PM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Bangkok
Sulfuric acid	10:00 AM - 12:00 PM	mg/m3	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok

### Guideline :

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

Sampled By : Phongsiri Somkaew

### Remark :

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 2390505  
Date Received : Sep 09, 2023  
Date Reported : Sep 21, 2023  
Report Number : 2735520-1

Page 3 of 4

Sample Number : 2390505-3  
Sampled Date : Sep 08, 2023  
Sample Description : Air Quality  
Location : Waste Water Treatment Plant  
Date Analysis Commenced : Sep 12, 2023  
Condition of Sample : Drawn into one filter paper placed in plastic cassette, one amber plastic bottle and one sorbent tube, refrigerated.  
Barometric Pressure : 756 mmHg  
Atmospheric Temperature : 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Chlorine	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok
Sodium hydroxide as NaOH	10:00 AM - 12:00 PM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Bangkok
Sulfuric acid	10:00 AM - 12:00 PM	mg/m3	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok

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

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

Approved by

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Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23132001  
Date Received : Dec 08, 2023  
Date Reported : Dec 20, 2023  
Report Number : 2833410-1

Page 1 of 3

Sample Number : 23132001-1  
Sampled Date : Dec 07, 2023  
Sample Description : Air Quality  
Location : Cooling Tower  
Date Analysis Commenced : Dec 09, 2023  
Condition of Sample : Drawn into one filter paper placed in plastic cassette, one amber plastic bottle and one sorbent tube, refrigerated  
Barometric Pressure : 758 mmHg  
Atmospheric Temperature : 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Chlorine as NaOCl	09:15 AM - 11:15 AM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok
Sodium hydroxide as NaOH	09:15 AM - 11:15 AM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Bangkok
Sulfuric acid	09:15 AM - 11:15 AM	mg/m3	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok

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

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23132001  
Date Received : Dec 08, 2023  
Date Reported : Dec 20, 2023  
Report Number: 2833410-1

Page 2 of 3

Sample Number 23132001-2  
Sampled Date Dec 07, 2023  
Sample Description Air Quality  
Location Demin Water Plant  
Date Analysis Commenced Dec 09, 2023  
Condition of Sample Drawn into one filter paper placed in plastic cassette, one amber plastic bottle and one sorbent tube, refrigerated  
Barometric Pressure 758 mmHg  
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Chlorine as NaOCl	09:33 AM - 11:33 AM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok
Sodium hydroxide as NaOH	09:33 AM - 11:33 AM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Bangkok
Sulfuric acid	09:33 AM - 11:33 AM	mg/m3	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok

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

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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11734-25/EN01



## Analysis / Test Report

Client : Gulf JP TLC Co., Ltd.  
20 Moo 1, Taling Chan, Mueang, Saraburi Thailand 18000  
P/O : 4105005113  
Project Name : Monitoring EIA  
Project Location : GTLC

Lot ID: 23132001  
Date Received : Dec 08, 2023  
Date Reported : Dec 20, 2023  
Report Number : 2833410-1

Page 3 of 3

Sample Number 23132001-3  
Sampled Date Dec 07, 2023  
Sample Description Air Quality  
Location Waste Water Treatment Plant  
Date Analysis Commenced Dec 09, 2023  
Condition of Sample Drawn into one filter paper placed in plastic cassette, one amber plastic bottle and one sorbent tube, refrigerated  
Barometric Pressure 758 mmHg  
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Chlorine as NaOCl	09:34 AM - 11:34 AM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok
Sodium hydroxide as NaOH	09:34 AM - 11:34 AM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Bangkok
Sulfuric acid	09:34 AM - 11:34 AM	mg/m3	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok

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

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

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