

## ภาคผนวก ค

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ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

# ภาคผนวก ค-1

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คุณภาพอากาศในบรรยากาศ





## Analysis / Test Report



TESTING  
No.0042

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTS3

**Lot ID: 24121395**  
Date Received : Dec 05, 2024  
Date Reported : Dec 12, 2024  
Report Number: 3145424-1

Page 1 of 1

Sample Description	Air Quality				
Location	บ้านท่าเรือชุมชนบ้านท่าเรือ (GPS 47P 0735497, 1445317)				
Date Analysis Commenced	Dec 06, 2024				
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)
24121395-1	Nov 20 - Nov 21, 2024	0.063	0.021	755	29
24121395-2	Nov 21 - Nov 22, 2024	0.066	0.022	755	29
24121395-3	Nov 22 - Nov 23, 2024	0.056	0.019	755	29
24121395-4	Nov 23 - Nov 24, 2024	0.044	0.013	755	29
24121395-5	Nov 24 - Nov 25, 2024	0.047	0.026	755	29
24121395-6	Nov 25 - Nov 26, 2024	0.062	0.019	755	29
24121395-7	Nov 26 - Nov 27, 2024	0.097	0.030	755	29
Guideline		0.33	0.12	-	-
Reference Method					
Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B					
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J					
Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004					
Sampled By : Anurak Tongkhaonsakda					
Remark :					
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.					

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

Approved by

Thanitak.

Thanita Kulsuriwong  
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## Analysis / Test Report



TESTING  
No.0042

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTS3

**Lot ID: 24121395**  
Date Received : Dec 05, 2024  
Date Reported : Dec 12, 2024  
Report Number: 3145424-2

Page 1 of 1

Sample Description	Air Quality				
Location	ในพื้นที่ชุมชนบ้านท่าเรือ (GPS 47P 0738199, 1443916)				
Date Analysis Commenced	Dec 06, 2024				
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)
24121395-8	Nov 20 - Nov 21, 2024	0.070	0.035	755	29
24121395-9	Nov 21 - Nov 22, 2024	0.067	0.040	755	29
24121395-10	Nov 22 - Nov 23, 2024	0.057	0.030	755	29
24121395-11	Nov 23 - Nov 24, 2024	0.037	0.023	755	29
24121395-12	Nov 24 - Nov 25, 2024	0.068	0.032	755	29
24121395-13	Nov 25 - Nov 26, 2024	0.075	0.039	755	29
24121395-14	Nov 26 - Nov 27, 2024	0.082	0.051	755	29
Guideline		0.33	0.12	-	-
Reference Method					
Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B					
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J					
Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004					
Sampled By : Anurak Tongkhaonsakda					
Remark :					
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.					

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## Analysis / Test Report



TESTING  
No.0042  
**Lot ID: 24121395**

Date Received : Dec 05, 2024  
Date Reported : Dec 12, 2024  
Report Number: 3145424-3

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Page 1 of 1

Sample Description		Air Quality	
Location	Date Analysis Commenced	15100	

### Reference Method

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

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

Sampled By : Anurak Tongkhajonsakda

### Remark :

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

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Approved by

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## Analysis / Test Report



TESTING  
No.0042  
**Lot ID: 24121395**

Date Received : Dec 05, 2024  
Date Reported : Dec 12, 2024  
Report Number: 3145424-4

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Page 1 of 1

Sample Description		Air Quality	
Location	ᐱᐱ		

### Reference Method

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

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

Sampled By : Anurak Tongkhajonsakda

### Remark :

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

Thanitak.

Approved by

Thanita Kulsuriwong  
Scientist (4)

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**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTSS3

**Lot ID: 24121387**  
Date Received : Dec 05, 2024  
Date Reported : Dec 10, 2024  
Report Number: 3145412-1

### Analysis / Test Report

Page 1 of 1

Sample Description	Air Quality														
Location	โรงเรียนทุ่งศรีลำ (GPS 47P 0735497, 1445317)														
Parameter	Nitrogen dioxide (ppm)														
Measurement Date	Nov 20, 2024 - Nov 27, 2024														
Measurement by	Anurak Tongkhajonsakda														
Time	24121387-1	24121387-2	24121387-3	24121387-4	24121387-5	24121387-6	24121387-7								
	Nov 20, 2024	Nov 21, 2024	Nov 22, 2024	Nov 23, 2024	Nov 24, 2024	Nov 25, 2024	Nov 26, 2024								
	0.0023	0.0097	0.0048	0.0132	0.0047	0.0033	0.0057	0.0082	0.0086	0.0018	0.0018	0.0018			
	0.0041	0.0108	0.0137	0.0048	0.0047	0.0036	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033			
	0.0050	0.0078	0.0154	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036			
	0.0043	0.0046	0.0130	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041			
	0.0057	0.0062	0.0099	0.0055	0.0055	0.0055	0.0055	0.0055	0.0055	0.0055	0.0055	0.0055			
	0.0069	0.0037	0.0051	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033			
	0.0110	0.0036	0.0055	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012			
	0.0096	0.0038	0.0143	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018			
	0.0117	0.0038	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024			
	0.0127	0.0043	0.0046	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041			
	0.0171	0.0049	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044			
	0.0275	0.0089	0.0046	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094			
	0.0194	0.0085	0.0065	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094			
	0.0151	0.0094	0.0050	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079			
	0.0112	0.0111	0.0057	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074			
	0.0106	0.0105	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064			
	0.0103	0.0086	0.0092	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062			
	0.0101	0.0089	0.0066	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056			
	0.0123	0.0078	0.0080	0.0049	0.0049	0.0049	0.0049	0.0049	0.0049	0.0049	0.0049	0.0049			
	0.0225	0.0073	0.0116	0.0058	0.0058	0.0058	0.0058	0.0058	0.0058	0.0058	0.0058	0.0058			
	0.0213	0.0070	0.0120	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071			
	0.0193	0.0083	0.0119	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071			
	0.0128	0.0081	0.0089	0.0067	0.0067	0.0067	0.0067	0.0067	0.0067	0.0067	0.0067	0.0067			
	0.0107	0.0063	0.0120	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066			
	Average	0.0122	0.0072	0.0092	0.0059	0.0059	0.0059	0.0059	0.0059	0.0059	0.0059	0.0059			
	1hr - Maximum	0.0275	0.0111	0.0210	0.0132	0.0132	0.0132	0.0132	0.0132	0.0132	0.0132	0.0132			
	Standard 1hr - Average	: Notification of the National Environment Board No. 33, 2009 (B.E. 2552).													
	Standard	: US EPA Method Part 50 App. F (Chemiluminescence)													

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**Approved by**  
*Orawan R.*  
Orawan Rakyoung  
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**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTSS3

**Lot ID: 24121387**  
Date Received : Dec 05, 2024  
Date Reported : Dec 10, 2024  
Report Number: 3188908-1

### Analysis / Test Report

Page 1 of 1

Sample Description	Air Quality														
Location	โรงเรียนชุมชนวัดพิทักษ์ธารสุวาม (GPS 47P 0738199, 1443916)														
Parameter	Nitrogen dioxide (ppm)														
Measurement Date	Nov 20, 2024 - Nov 27, 2024														
Measurement by	Anurak Tongkhajonsakda														
Time	24121387-8		24121387-9		24121387-10		24121387-11		24121387-12		24121387-13		24121387-14		
	Nov 20, 2024	Nov 21, 2024	Nov 21, 2024	Nov 22, 2024	Nov 22, 2024	Nov 23, 2024	Nov 23, 2024	Nov 24, 2024	Nov 24, 2024	Nov 25, 2024	Nov 25, 2024	Nov 26, 2024	Nov 26, 2024		
	0.0041	0.0093	0.0174	0.0034	0.0034	0.0030	0.0036	0.0020	0.0036	0.0020	0.0020	0.0017	0.0017		
	0.0048	0.0090	0.0243	0.0034	0.0034	0.0034	0.0036	0.0036	0.0024	0.0024	0.0018	0.0018	0.0018		
	0.0048	0.0092	0.0251	0.0034	0.0034	0.0034	0.0040	0.0040	0.0034	0.0034	0.0031	0.0031	0.0031		
	0.0113	0.0112	0.0244	0.0039	0.0039	0.0039	0.0044	0.0044	0.0037	0.0037	0.0028	0.0028	0.0028		
	0.0057	0.0066	0.0258	0.0041	0.0041	0.0041	0.0030	0.0030	0.0035	0.0035	0.0026	0.0026	0.0026		
	0.0092	0.0068	0.0204	0.0032	0.0032	0.0032	0.0027	0.0027	0.0029	0.0029	0.0028	0.0028	0.0028		
	0.0090	0.0144	0.0132	0.0027	0.0027	0.0027	0.0024	0.0024	0.0019	0.0019	0.0019	0.0019	0.0019		
	0.0159	0.0126	0.0126	0.0022	0.0022	0.0022	0.0033	0.0033	0.0020	0.0020	0.0014	0.0014	0.0014		
	0.0173	0.0119	0.0097	0.0023	0.0023	0.0023	0.0025	0.0025	0.0015	0.0015	0.0012	0.0012	0.0012		
	0.0186	0.0081	0.0070	0.0023	0.0023	0.0023	0.0017	0.0017	0.0010	0.0010	0.0010	0.0010	0.0010		
	0.0184	0.0071	0.0058	0.0026	0.0026	0.0026	0.0018	0.0018	0.0013	0.0013	0.0009	0.0009	0.0009		
	0.0158	0.0068	0.0058	0.0035	0.0035	0.0035	0.0024	0.0024	0.0014	0.0014	0.0009	0.0009	0.0009		
	0.0093	0.0085	0.0106	0.0035	0.0035	0.0035	0.0042	0.0042	0.0031	0.0031	0.0029	0.0029	0.0029		
	0.0087	0.0075	0.0137	0.0049	0.0049	0.0049	0.0050	0.0050	0.0042	0.0042	0.0029	0.0029	0.0029		
	0.0103	0.0082	0.0103	0.0057	0.0057	0.0057	0.0040	0.0040	0.0034	0.0034	0.0024	0.0024	0.0024		
	0.0106	0.0062	0.0039	0.0050	0.0050	0.0050	0.0031	0.0031	0.0035	0.0035	0.0020	0.0020	0.0020		
	0.0115	0.0075	0.0045	0.0038	0.0038	0.0038	0.0029	0.0029	0.0035	0.0035	0.0017	0.0017	0.0017		
	0.0105	0.0087	0.0063	0.0037	0.0037	0.0037	0.0023	0.0023	0.0034	0.0034	0.0016	0.0016	0.0016		
	0.0054	0.0105	0.0062	0.0025	0.0025	0.0025	0.0020	0.0020	0.0028	0.0028	0.0014	0.0014	0.0014		
	0.0033	0.0117	0.0038	0.0030	0.0030	0.0030	0.0018	0.0018	0.0023	0.0023	0.0006	0.0006	0.0006		
	0.0026	0.0153	0.0026	0.0023	0.0023	0.0023	0.0017	0.0017	0.0018	0.0018	0.0012	0.0012	0.0012		
	0.0066	0.0161	0.0031	0.0028	0.0028	0.0028	0.0018	0.0018	0.0016	0.0016	0.0020	0.0020	0.0020		
	Average	0.0099	0.0095	0.0113	0.0034	0.0034	0.0034	0.0029	0.0029	0.0026	0.0026	0.0033	0.0033		



Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phuk Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121387  
Date Received : Dec 05, 2024  
Date Reported : Dec 10, 2024  
Report Number: 3188909-1

Analysis / Test Report

Page 1 of 1

Sample Description		Air Quality													
Location		โรงงานอุตสาหกรรม (ทางออกด้าน) (GPS 47P 0739512, 1447941)													
Parameter		Nitrogen dioxide (ppm)													
Measurement Date		Nov 20, 2024 - Nov 27, 2024													
Measurement by		Anurak Tongkhaonsakda													
		24121387-15		24121387-16		24121387-17		24121387-18		24121387-19		24121387-20		24121387-21	
Time		Nov 20, 2024	Nov 21, 2024	Nov 21, 2024	Nov 22, 2024	Nov 22, 2024	Nov 23, 2024	Nov 23, 2024	Nov 24, 2024	Nov 24, 2024	Nov 25, 2024	Nov 25, 2024	Nov 26, 2024	Nov 26, 2024	Nov 26, 2024
12:00 PM - 01:00 PM		0.0072	0.0063	0.0013	0.0015	0.0049	0.0015	0.0049	0.0053	0.0096	0.0138	0.0142			
01:00 PM - 02:00 PM		0.0051	0.0058	0.0003	0.0013	0.0053	0.0014	0.0250	0.0116	0.0124					
02:00 PM - 03:00 PM		0.0044	0.0068	0.0028	0.0032	0.0070	0.0017	0.0065	0.0094	0.0081	0.0085				
03:00 PM - 04:00 PM		0.0032	0.0058	0.0049	0.0032	0.0070	0.0017	0.0065	0.0094	0.0081	0.0085				
04:00 PM - 05:00 PM		0.0039	0.0061	0.0046	0.0032	0.0070	0.0017	0.0065	0.0094	0.0081	0.0085				
05:00 PM - 06:00 PM		0.0048	0.0075	0.0065	0.0008	0.0067	0.0082	0.0103	0.0132	0.0140					
06:00 PM - 07:00 PM		0.0040	0.0100	0.0071	0.0019	0.0088	0.0103	0.0132	0.0140						
07:00 PM - 08:00 PM		0.0074	0.0171	0.0024	0.0016	0.0090	0.0132	0.0140							
08:00 PM - 09:00 PM		0.0155	0.0332	0.0043	0.0021	0.0114	0.0169	0.0113							
09:00 PM - 10:00 PM		0.0223	0.0188	0.0029	0.0025	0.0095	0.0194	0.0150							
10:00 PM - 11:00 PM		0.0288	0.0198	0.0015	0.0011	0.0100	0.0167	0.0153							
11:00 PM - 12:00 AM		0.0251	0.0070	0.0016	0.0009	0.0101	0.0119	0.0139							
12:00 AM - 01:00 AM		0.0125	0.0051	0.0007	0.0007	0.0114	0.0137	0.0149							
01:00 AM - 02:00 AM		0.0074	0.0028	0.0016	0.0008	0.0095	0.0114	0.0131							
02:00 AM - 03:00 AM		0.0072	0.0067	0.0008	0.0008	0.0079	0.0129	0.0082							
03:00 AM - 04:00 AM		0.0069	0.0079	0.0034	0.0054	0.0069	0.0137	0.0079							
04:00 AM - 05:00 AM		0.0084	0.0078	0.0043	0.0061	0.0058	0.0119	0.0068							
05:00 AM - 06:00 AM		0.0082	0.0063	0.0063	0.0045	0.0058	0.0083	0.0068							
06:00 AM - 07:00 AM		0.0076	0.0075	0.0012	0.0046	0.0072	0.0097	0.0083							
07:00 AM - 08:00 AM		0.0074	0.0045	0.0035	0.0046	0.0076	0.0082	0.0097							
08:00 AM - 09:00 AM		0.0082	0.0057	0.0034	0.0058	0.0092	0.0118	0.0134							
09:00 AM - 10:00 AM		0.0081	0.0038	0.0037	0.0060	0.0129	0.0129	0.0122							
10:00 AM - 11:00 AM		0.0066	0.0015	0.0023	0.0052	0.0117	0.0113	0.0132							
11:00 AM - 12:00 PM		0.0056	0.0013	0.0017	0.0052	0.0116	0.0129	0.0110							
Average		0.0094	0.0081	0.0030	0.0029	0.0094	0.0119	0.0112							
1hr - Maximum		0.0288	0.0232	0.0071	0.0061	0.0250	0.0194	0.0153							
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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S:\Report\Air SON\Or.rp (3:33PM)



Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Phuk Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121387  
Date Received : Dec 05, 2024  
Date Reported : Dec 10, 2024  
Report Number: 3188910-1

Analysis / Test Report

Page 1 of 1

Sample Description	Air Quality											
Location	โรงงานอุตสาหกรรม (GPS 47P 0738170, 1442937)											
Parameter	Nitrogen dioxide (ppm)											
Measurement Date	Nov 20, 2024 - Nov 27, 2024											
Measurement by	Anurak Tongkhaonsakda											
Time	24121387-22	24121387-23	24121387-24	24121387-25	24121387-26	24121387-27	24121387-28					
09:00 AM - 10:00 AM	0.0089	0.0067	0.0060	0.0044	0.0040	0.0045	0.0048					
10:00 AM - 11:00 AM	0.0101	0.0097	0.0054	0.0045	0.0041	0.0138	0.0028					
11:00 AM - 12:00 PM	0.0124	0.0113	0.0050	0.0032	0.0036	0.0144	0.0148					
12:00 PM - 01:00 PM	0.0129	0.0074	0.0054	0.0033	0.0032	0.0118	0.0122					
01:00 PM - 02:00 PM	0.0147	0.0051	0.0054	0.0029	0.0028	0.0089	0.0109					
02:00 PM - 03:00 PM	0.0157	0.0048	0.0050	0.0035	0.0026	0.0118	0.0125					
03:00 PM - 04:00 PM	0.0153	0.0063	0.0048	0.0033	0.0028	0.0172	0.0131					
04:00 PM - 05:00 PM	0.0202	0.0051	0.0048	0.0036	0.0030	0.0129	0.0128					
05:00 PM - 06:00 PM	0.0220	0.0060	0.0058	0.0049	0.0040	0.0217	0.0095					
06:00 PM - 07:00 PM	0.0188	0.0068	0.0054	0.0045	0.0040	0.0376	0.0112					
07:00 PM - 08:00 PM	0.0226	0.0056	0.0040	0.0037	0.0039	0.0464	0.0055					
08:00 PM - 09:00 PM	0.0191	0.0060	0.0039	0.0042	0.0042	0.0239	0.0088					
09:00 PM - 10:00 PM	0.0129	0.0046	0.0036	0.0037	0.0034	0.0216	0.0142					
10:00 PM - 11:00 PM	0.0112	0.0045	0.0040	0.0035	0.0023	0.0138	0.0113					
11:00 PM - 12:00 AM	0.0140	0.0055	0.0040	0.0032	0.0026	0.0094	0.0088					
12:00 AM - 01:00 AM	0.0109	0.0047	0.0035	0.0031	0.0018	0.0080	0.0078					
01:00 AM - 02:00 AM	0.0088	0.0056	0.0034	0.0031	0.0023	0.0065	0.0068					
02:00 AM - 03:00 AM	0.0110	0.0067	0.0039	0.0029	0.0025	0.0063	0.0061					
03:00 AM - 04:00 AM	0.0103	0.0068	0.0044	0.0039	0.0039	0.0071	0.0061					
04:00 AM - 05:00 AM	0.0115	0.0055	0.0056	0.0041	0.0052	0.0050	0.0061					
05:00 AM - 06:00 AM	0.0197	0.0060	0.0056	0.0059	0.0069	0.0083	0.0070					
06:00 AM - 07:00 AM	0.0147	0.0105	0.0073	0.0051	0.0050	0.0144	0.0096					
07:00 AM - 08:00 AM	0.0094	0.0069	0.0046	0.0050	0.0039	0.0135	0.0098					
08:00 AM - 09:00 AM	0.0061	0.0071	0.0041	0.0044	0.0036	0.0140	0.0075					
Average	0.0139	0.0065	0.0048	0.0039	0.0036	0.0147	0.0092					
1hr - Maximum	0.0226	0.0113	0.0073	0.0059	0.0069	0.0464	0.0148					
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170					
Standard Reference Method	: Notification of the National Environment Board No. 33, 2009 (B.E. 2552). US EPA Method Part 50 App. F (Chemiluminescence)											

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13430-817 EMAIL

S:\Report\Air SON\Or.rp (3:33PM)



## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTS3

**Lot ID: 24121389**  
Date Received : Dec 05, 2024  
Date Reported : Dec 10, 2024  
Report Number: 3145417-1

Page 1 of 1

Sample Description Location	Air Quality ตัวอย่างอากาศ (GPS 47P 0735497, 1445317)														
Parameter	Sulfur Dioxide (ppm)														
Measurement Date	Nov 20, 2024 - Nov 27, 2024														
Measurement by	Anurak Tongkajonsakda														
Time	24121389-1 Nov 20, 2024	24121389-2 Nov 21, 2024	24121389-3 Nov 22, 2024	24121389-4 Nov 23, 2024	24121389-5 Nov 24, 2024	24121389-6 Nov 25, 2024	24121389-7 Nov 26, 2024								
	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	0.0017	0.0016	0												

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## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTS3

**Lot ID: 24121389**  
Date Received : Dec 05, 2024  
Date Reported : Dec 10, 2024  
Report Number: 3188905-1

Page 1 of 1

Sample Description	Air Quality														
Location	โรงงานอุตสาหกรรมสีสุพรรณ (GPS 47P 0738199, 1443916)														
Parameter	Sulfur Dioxide (ppm)														
Measurement Date	Nov 20, 2024 – Nov 27, 2024														
Measurement by	Anurak Tongkajonsakda														
Time	24121389-8	24121389-9	24121389-10	24121389-11	24121389-12	24121389-13	24121389-14								
	Nov 20, 2024	Nov 21, 2024	Nov 22, 2024	Nov 23, 2024	Nov 24, 2024	Nov 25, 2024	Nov 26, 2024								





Analysis / Test Report

**Client :** Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GT53

**Lot ID: 24121389**  
Date Received : Dec 05, 2024  
Date Reported : Dec 10, 2024  
Report Number: 3188906-1

Page 1 of 1

Sample Description Location Parameter	Air Quality ก๊าซพิษในอากาศ (อากาศทั่วไป) (GPS 47P 0739512, 1447941) Sulfur Dioxide (ppm)	Nov 20, 2024 - Nov 27, 2024 Anurak Tongkhajonsakda												
		Measurement Date												
		Measurement by												
		Time												
12:00 PM - 01:00 PM	0.0003	24121389-15 Nov 20, 2024	0.0039	24121389-16 Nov 21, 2024	0.0034	24121389-17 Nov 22, 2024	0.0009	24121389-18 Nov 23, 2024	0.0007	24121389-19 Nov 24, 2024	0.0008	24121389-20 Nov 25, 2024	0.0005	24121389-21 Nov 26, 2024
01:00 PM - 02:00 PM	0.0003		0.0059		0.0021		0.0008		0.0007		0.0008		0.0005	
02:00 PM - 03:00 PM	0.0003		0.0047		0.0013		0.0007		0.0006		0.0007		0.0005	
03:00 PM - 04:00 PM	0.0003		0.0028		0.0006		0.0005		0.0004		0.0007		0.0005	
04:00 PM - 05:00 PM	0.0004		0.0008		0.0004		0.0004		0.0004		0.0004		0.0005	
05:00 PM - 06:00 PM	0.0004		0.0005		0.0004		0.0003		0.0003		0.0003		0.0005	
06:00 PM - 07:00 PM	0.0008		0.0004		0.0004		0.0003		0.0003		0.0003		0.0005	
07:00 PM - 08:00 PM	0.0036		0.0003		0.0003		0.0003		0.0003		0.0003		0.0005	
08:00 PM - 09:00 PM	0.0014		0.0004		0.0004		0.0003		0.0003		0.0004		0.0004	
09:00 PM - 10:00 PM	0.0003		0.0004		0.0003		0.0003		0.0003		0.0004		0.0004	
10:00 PM - 11:00 PM	0.0003		0.0004		0.0004		0.0003		0.0003		0.0004		0.0004	
11:00 PM - 12:00 AM	0.0003		0.0004		0.0004		0.0003		0.0003		0.0004		0.0004	
12:00 AM - 01:00 AM	0.0003		0.0004		0.0004		0.0003		0.0003		0.0004		0.0004	
01:00 AM - 02:00 AM	0.0003		0.0004		0.0004		0.0004		0.0004		0.0004		0.0004	
02:00 AM - 03:00 AM	0.0003		0.0004		0.0004		0.0004		0.0004		0.0004		0.0004	
03:00 AM - 04:00 AM	0.0003		0.0004		0.0004		0.0004		0.0005		0.0004		0.0005	
04:00 AM - 05:00 AM	0.0003		0.0005		0.0005		0.0005		0.0005		0.0004		0.0005	
05:00 AM - 06:00 AM	0.0003		0.0004		0.0004		0.0004		0.0004		0.0004		0.0005	
06:00 AM - 07:00 AM	0.0004		0.0007		0.0004		0.0004		0.0005		0.0005		0.0004	
07:00 AM - 08:00 AM	0.0004		0.0014		0.0006		0.0004		0.0006		0.0005		0.0005	
08:00 AM - 09:00 AM	0.0004		0.0016		0.0007		0.0006		0.0006		0.0005		0.0022	
09:00 AM - 10:00 AM	0.0003		0.0018		0.0008		0.0007		0.0007		0.0005		0.0003	
10:00 AM - 11:00 AM	0.0002		0.0033		0.0009		0.0007		0.0007		0.0005		0.0006	
11:00 AM - 12:00 PM	0.0036		0.0044		0.0009		0.0007		0.0008		0.0004		0.0006	
Average	0.0007		0.0015		0.0007		0.0005		0.0005		0.0005		0.0005	
1hr - Maximum	0.0036		0.0059		0.0034		0.0009		0.0008		0.0008		0.0022	
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 TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GT53

**Lot ID: 24121389**  
Date Received : Dec 05, 2024  
Date Reported : Dec 10, 2024  
Report Number: 3188907-1

Page 1 of 1

Sample Description		Air Quality											
Location		โรงงานสุพรรณ (GPS: 47P 0738170, 1442937)											
Parameter		Sulfur Dioxide (ppm)											
Measurement Date		Nov 20, 2024 - Nov 27, 2024											
Measurement by		Anurak Tongkhajonsakda											
	Time	24121389-22 Nov 20, 2024	24121389-23 Nov 21, 2024	24121389-24 Nov 22, 2024	24121389-25 Nov 23, 2024	24121389-26 Nov 24, 2024	24121389-27 Nov 25, 2024	24121389-28 Nov 26, 2024					
	09:00 AM - 10:00 AM	0.0012	0.0013	0.0012	0.0029	0.0029	0.0027	0.0027					
	10:00 AM - 11:00 AM	0.0014	0.0013	0.0013	0.0034	0.0031	0.0029	0.0022					
	11:00 AM - 12:00 PM	0.0013	0.0013	0.0014	0.0030	0.0026	0.0027	0.0025					
	12:00 PM - 01:00 PM	0.0016	0.0014	0.0014	0.0034	0.0026	0.0027	0.0022					
	01:00 PM - 02:00 PM	0.0018	0.0013	0.0016	0.0033	0.0026	0.0027	0.0024					
	02:00 PM - 03:00 PM	0.0011	0.0015	0.0015	0.0032	0.0029	0.0020	0.0022					
	03:00 PM - 04:00 PM	0.0011	0.0015	0.0014	0.0034	0.0030	0.0021	0.0024					
	04:00 PM - 05:00 PM	0.0012	0.0011	0.0015	0.0029	0.0032	0.0026	0.0022					
	05:00 PM - 06:00 PM	0.0012	0.0012	0.0015	0.0024	0.0026	0.0026	0.0021					
	06:00 PM - 07:00 PM	0.0011	0.0014	0.0013	0.0028	0.0023	0.0024	0.0023					
	07:00 PM - 08:00 PM	0.0014	0.0013	0.0013	0.0030	0.0024	0.0021	0.0020					
	08:00 PM - 09:00 PM	0.0013	0.0014	0.0014	0.0029	0.0024	0.0022	0.0022					
	09:00 PM - 10:00 PM	0.0013	0.0015	0.0014	0.0030	0.0023	0.0023	0.0021					
	10:00 PM - 11:00 PM	0.0012	0.0013	0.0014	0.0029	0.0027	0.0023	0.0022					
	11:00 PM - 12:00 AM	0.0015	0.0014	0.0037	0.0029	0.0024	0.0023	0.0021					
	12:00 AM - 01:00 AM	0.0015	0.0013	0.0040	0.0028	0.0024	0.0022	0.0021					
	01:00 AM - 02:00 AM	0.0013	0.0014	0.0039	0.0029	0.0026	0.0023	0.0025					
	02:00 AM - 03:00 AM	0.0018	0.0017	0.0039	0.0029	0.0027	0.0020	0.0023					
	03:00 AM - 04:00 AM	0.0017	0.0018	0.0036	0.0028	0.0027	0.0020	0.0023					
	04:00 AM - 05:00 AM	0.0012	0.0016	0.0033	0.0028	0.0023	0.0027	0.0024					
	05:00 AM - 06:00 AM	0.0013	0.0013	0.0038	0.0029	0.0025	0.0026	0.0021					
	06:00 AM - 07:00 AM	0.0013	0.0015	0.0035	0.0030	0.0027	0.0027	0.0020					
	07:00 AM - 08:00 AM	0.0011	0.0015	0.0033	0.0033	0.0017	0.0029	0.0021					
	08:00 AM - 09:00 AM	0.0010	0.0013	0.0030	0.0031	0.0020	0.0027	0.0020					
	Average	0.0013	0.0014	0.0024	0.0030	0.0026	0.0024	0.0022					
	1hr - Maximum	0.0018	0.0018	0.0044	0.0034	0.0032	0.0029	0.0027					
	Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3					
	Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12					
Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).													
Reference Method : US EPA Method Part 53 and 58													

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Public Co., Ltd. is not responsible for the results of this report if not reproduced exactly as in full.

Approved by

*Orawan R.*  
Orawan Rakyoung  
Scientist (3)

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S:\Report\Air SD\Nov.rpt (3:44PM)



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 24121392

Date Received : Dec 05, 2024

Date Reported : Dec 11, 2024

Report Number : 3145420-1

Page 1 of 2

Sample Number 24121392-1 to 7

Parameter Wind Speed / Wind Direction

Location ตำบลบ้านใหม่ อำเภอจันทบุรี (GPS 47P 0735497, 1445317)

Sampling Date Nov 20 - Nov 27, 2024

Sampling by Anurak Tongthapaisakda

Time		Nov 20 - Nov 21, 2024		Nov 21 - Nov 22, 2024		Nov 22 - Nov 23, 2024		Nov 23 - Nov 24, 2024		Nov 24 - Nov 25, 2024		Nov 25 - Nov 26, 2024		Nov 26 - Nov 27, 2024	
		WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
11:00 AM - 12:00 PM		0.6	130.0 SE	1.7	339.0 NNW	3.3	359.0 N	1.7	195.0 SSW	1.7	265.0 W	1.7	165.0 SSE	4.3	122.0 ESE
12:00 PM - 01:00 PM		1.2	213.0 SSW	2.6	94.0 E	2.5	359.0 N	3.3	169.0 S	2.2	27.0 NNE	1.6	312.0 NW	2.2	86.0 E
01:00 PM - 02:00 PM		1.7	96.0 E	1.1	119.0 ESE	1.0	31.0 NNE	1.4	103.0 ESE	3.1	142.0 SE	0.5	174.0 S	2.4	90.0 E
02:00 PM - 03:00 PM		1.1	292.0 NNW	0.3	127.0 SE	0.7	0.0 N	0.6	79.0 E	1.2	124.0 SE	0.4	262.0 W	2.3	125.0 SE
03:00 PM - 04:00 PM		2.3	158.0 SSE	1.4	121.0 ESE	1.0	281.0 W	1.1	144.0 SE	2.6	105.0 ESE	1.0	278.0 W	2.4	115.0 ESE
04:00 PM - 05:00 PM		0.6	120.0 ESE	0.2	-	-	0.3 111.0 ESE	0.7	343.0 NNW	2.1	112.0 ESE	0.0	-	1.3	111.0 ESE
05:00 PM - 06:00 PM		0.0	-	-	0.4 98.0 E	0.9	118.0 ESE	0.0	-	-	0.5 119.0 ESE	0.5	14.0 NNE	0.0	-
06:00 PM - 07:00 PM		1.1	101.0 E	1.0	352.0 N	0.7	111.0 ESE	0.4	356.0 N	0.5	108.0 ESE	0.6	348.0 NNW	1.0	20.0 NNE
07:00 PM - 08:00 PM		0.0	-	-	1.2 3.0 N	0.4	28.0 NNE	1.2	359.0 N	0.9	131.0 SE	1.3	119.0 ESE	0.0	-
08:00 PM - 09:00 PM		0.0	-	-	0.9 7.0 N	0.3	36.0 NE	1.0	359.0 N	1.1	355.0 N	0.0	-	0.0	-
09:00 PM - 10:00 PM		1.4	7.0 N	1.3	359.0 N	0.0	-	-	1.2 0.0 N	1.4	3.0 N	0.3	4.0 N	0.0	-
10:00 PM - 11:00 PM		1.5	36.0 NE	0.8	345.0 NNW	0.0	-	-	0.6 352.0 N	1.1	359.0 N	0.0	-	0.0	-
11:00 PM - 12:00 AM		0.0	-	-	1.0 359.0 N	1.4	359.0 N	0.6	129.0 SE	1.0	2.0 N	0.0	-	0.1	-
12:00 AM - 01:00 AM		1.0	354.0 N	0.0	-	-	0.9 346.0 NNW	0.5	142.0 SE	0.6	2.0 N	0.0	-	0.0	-
01:00 AM - 02:00 AM		1.6	16.0 NNE	1.0	1.0 N	0.4	352.0 N	0.6	168.0 SSE	1.7	0.0 N	0.3	158.0 SSE	0.0	-
02:00 AM - 03:00 AM		2.3	352.0 N	0.0	-	-	1.4 11.0 N	0.0	-	-	2.2 353.0 N	1.1	1.0 N	1.7	5.0 N
03:00 AM - 04:00 AM		2.3	332.0 NNW	1.0	113.0 ESE	1.1	5.0 N	1.1	359.0 N	1.0	12.0 NNE	0.7	332.0 NNW	0.7	1.0 N
04:00 AM - 05:00 AM		1.0	22.0 NNE	0.0	-	-	1.7 4.0 N	0.6	38.0 NE	0.6	347.0 NNW	0.8	69.0 E	1.6	19.0 NNE
05:00 AM - 06:00 AM		0.6	137.0 SE	1.6	17.0 NNE	2.6	356.0 N	0.5	69.0 ENE	1.5	7.0 N	0.1	-	1.8	0.0 N
06:00 AM - 07:00 AM		1.3	145.0 SE	1.7	21.0 NNE	4.2	319.0 NW	5.4	29.0 NNE	2.4	0.0 N	2.5	357.0 N	1.8	38.0 NE
07:00 AM - 08:00 AM		1.5	59.0 ENE	5.0	349.0 N	1.3	58.0 ENE	1.2	130.0 SE	1.0	333.0 NNW	3.8	330.0 NNW	1.3	86.0 E
08:00 AM - 09:00 AM		3.8	11.0 N	1.0	295.0 W	2.9	310.0 NW	2.4	119.0 ESE	1.2	351.0 N	1.6	52.0 NE	0.9	59.0 ENE
09:00 AM - 10:00 AM		4.5	5.0 N	1.0	4.0 96.0 E	1.6	269.0 W	1.7	166.0 SSE	2.3	85.0 E	3.7	129.0 SE	1.5	22.0 NNE
10:00 AM - 11:00 AM		4.3	344.0 NNW	3.1	350.0 N	1.9	121.0 ESE	3.0	44.0 NE	2.6	110.0 ESE	2.6	359.0 N	1.1	71.0 ENE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the wind speed and direction. They are not valid for this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuht Jitranont  
Assistant General Manager

Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 24121392

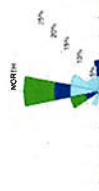
Date Received : Dec 05, 2024

Date Reported : Dec 11, 2024

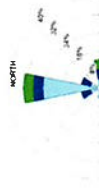
Report Number : 3145420-1

Page 2 of 2

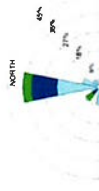
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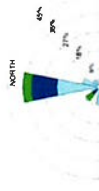
Date : Nov 20-21, 2024



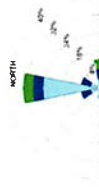
Date : Nov 21-22, 2024



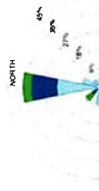
Date : Nov 22-23, 2024



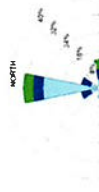
Date : Nov 23-24, 2024



Date : Nov 24-25, 2024



Date : Nov 25-26, 2024



Date : Nov 26-27, 2024

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	7.14
1.7-3.3	22.02
0.3-1.7	55.36
Calms	15.48

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Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121392  
Date Received :Dec 05, 2024  
Date Reported :Dec 11, 2024  
Report Number :3145420-1

Page 1 of 2

Sample Number 24121392-8 to 14  
Parameter Wind Speed / Wind Direction  
Location จังหวัดชุมพรพื้นที่ทางทะเลตอน (GPS 47P 0738199, 1443916)  
Sampling Date Nov 20 - Nov 27, 2024  
Sampling by Anurak Tongkijajonsakda

Time	Nov 20 - Nov 21, 2024		Nov 21 - Nov 22, 2024		Nov 22 - Nov 23, 2024		Nov 23 - Nov 24, 2024		Nov 24 - Nov 25, 2024		Nov 25 - Nov 26, 2024		Nov 26 - Nov 27, 2024								
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)							
10:00 AM - 11:00 AM	0.0	-	0.0	-	0.6	48.0	NE	0.0	-	0.0	-	0.0	-	-							
11:00 AM - 12:00 PM	0.4	14.0	NNE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	1.5	17.0	NNE					
12:00 PM - 01:00 PM	2.1	48.0	NE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	2.3	30.0	NNE					
01:00 PM - 02:00 PM	0.0	-	0.0	-	2.0	48.0	NE	1.3	70.0	ENE	0.0	-	0.0	-	1.2	76.0	ENE				
02:00 PM - 03:00 PM	1.1	44.0	NE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-					
03:00 PM - 04:00 PM	0.0	-	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-					
04:00 PM - 05:00 PM	1.4	14.0	NNE	0.0	-	0.4	98.0	E	1.2	29.0	NNE	0.0	-	0.0	-	2.2	33.0	NNE			
05:00 PM - 06:00 PM	1.8	346.0	NNW	1.8	0.0	N	2.1	35.0	NE	0.0	-	0.9	359.0	N	4.7	44.0	NE				
06:00 PM - 07:00 PM	2.2	36.0	NE	1.0	7.0	N	0.9	111.0	ESE	1.7	68.0	ENE	2.7	63.0	ENE	6.6	59.0	ENE			
07:00 PM - 08:00 PM	1.8	88.0	E	2.2	62.0	ENE	2.1	20.0	NNE	1.1	154.0	SSE	0.0	-	0.8	11.0	N	4.7	14.0	NNE	
08:00 PM - 09:00 PM	2.2	71.0	ENE	0.3	108.0	ESE	1.4	13.0	NNE	2.1	34.0	NE	0.0	-	0.9	90.0	E	4.7	71.0	ENE	
09:00 PM - 10:00 PM	3.8	60.0	ENE	0.6	78.0	ENE	1.9	88.0	E	1.2	61.0	ENE	1.0	132.0	SE	1.9	75.0	ENE	5.4	49.0	NE
10:00 PM - 11:00 PM	0.6	251.0	WSW	2.7	353.0	N	0.0	-	0.0	-	0.0	-	2.7	75.0	ENE	1.2	105.0	ESE	3.9	60.0	ENE
11:00 PM - 12:00 AM	0.4	20.0	NNE	1.9	359.0	N	0.7	106.0	ESE	0.2	-	-	-	-	0.0	-	-	3.3	33.0	NNE	
12:00 AM - 01:00 AM	0.3	352.0	N	3.7	28.0	NNW	0.7	349.0	N	2.0	63.0	ENE	2.2	22.0	NNE	0.0	-	3.5	81.0	E	
01:00 AM - 02:00 AM	0.1	-	-	0.5	301.0	WNW	0.0	-	-	0.0	-	0.5	0.0	N	0.0	-	-	3.9	56.0	NE	
02:00 AM - 03:00 AM	1.8	117.0	ESE	1.0	43.0	NE	0.0	-	-	0.4	68.0	ENE	0.5	108.0	ESE	0.0	-	1.3	51.0	NE	
03:00 AM - 04:00 AM	0.0	-	0.0	-	0.4	19.0	NNE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	1.8	29.0	NNE	
04:00 AM - 05:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	0.0	-	-	
05:00 AM - 06:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	2.4	83.0	E	
06:00 AM - 07:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	0.0	-	-	
07:00 AM - 08:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	0.0	-	-	
08:00 AM - 09:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	1.2	71.0	ENE	
09:00 AM - 10:00 AM	0.6	45.0	NE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	-	

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by

Sarayuth Jitranont  
Assistant General Manager

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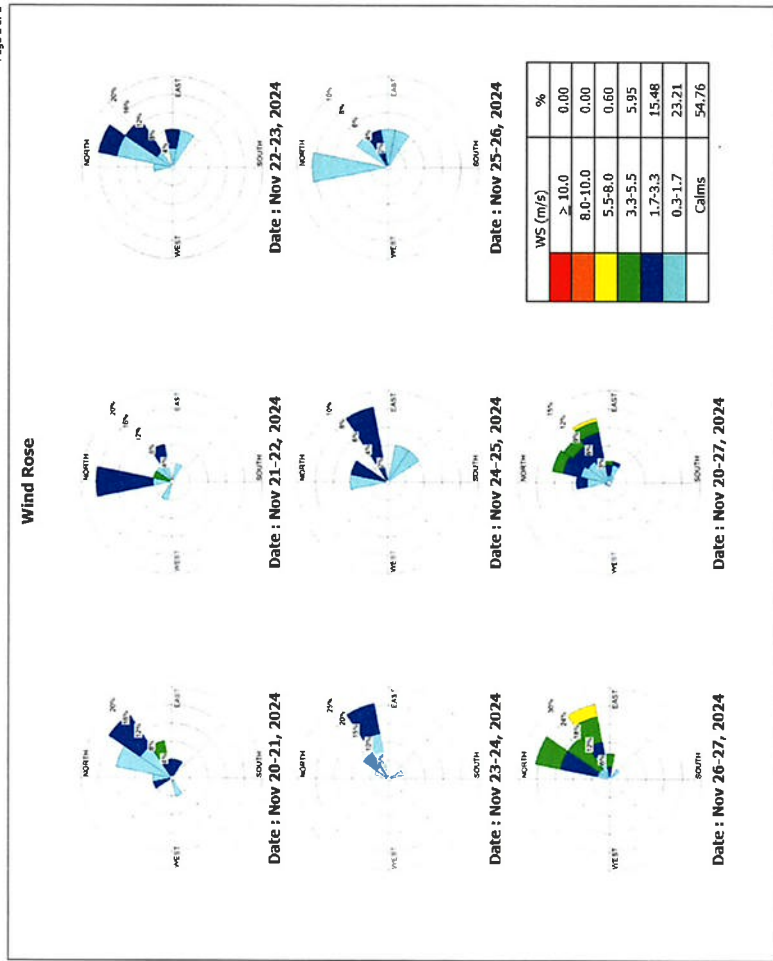


Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121392  
Date Received :Dec 05, 2024  
Date Reported :Dec 11, 2024  
Report Number :3145420-1

Page 2 of 2



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Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.

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

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 24121392

Date Received :Dec 05, 2024  
Date Reported :Dec 11, 2024  
Report Number :3145420-1

Page 1 of 2

Sample Number  
24121392-15 to 21

Parameter  
Wind Speed / Wind Direction

Location  
ท่าเรืออุตสาหกรรมอ่าวใหญ่ (ท่าเรืออ่าวใหญ่) (GPS 47P 0739512, 1447941)

Sampling Date  
Nov 20 - Nov 27, 2024

Sampling by  
Anurak Tongthapansakda

Time	Nov 20 - Nov 21, 2024		Nov 21 - Nov 22, 2024		Nov 22 - Nov 23, 2024		Nov 23 - Nov 24, 2024		Nov 24 - Nov 25, 2024		Nov 25 - Nov 26, 2024		Nov 26 - Nov 27, 2024								
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)							
12:00 PM - 01:00 PM	0.8	357.0	N	0.7	5.0	N	0.6	359.0	N	0.5	359.0	N	0.7	357.0	N	0.2	-	-	-	-	
01:00 PM - 02:00 PM	0.7	8.0	N	0.9	16.0	NNE	0.4	343.0	NNW	0.3	0.0	N	0.3	3.0	N	0.5	5.0	N	0.6	359.0	N
02:00 PM - 03:00 PM	2.2	357.0	N	0.6	0.0	N	0.3	317.0	NW	0.6	357.0	N	0.8	359.0	N	0.8	354.0	N	0.0	-	-
03:00 PM - 04:00 PM	0.0	-	-	1.0	0.0	N	0.6	345.0	NNW	0.5	0.0	N	0.3	6.0	N	0.0	-	0.0	-	-	-
04:00 PM - 05:00 PM	1.0	8.0	N	0.7	10.0	N	1.7	359.0	N	0.0	-	-	0.9	1.0	N	2.0	350.0	N	0.0	-	-
05:00 PM - 06:00 PM	1.3	349.0	N	0.4	0.0	N	0.7	0.0	N	1.4	304.0	NW	0.8	398.0	N	1.1	0.0	N	1.3	1.0	N
06:00 PM - 07:00 PM	1.5	359.0	N	1.7	0.0	N	1.5	359.0	N	0.5	359.0	N	0.0	-	-	1.9	0.0	N	0.9	8.0	N
07:00 PM - 08:00 PM	2.1	9.0	N	1.3	14.0	NNE	1.4	359.0	N	1.1	359.0	N	0.5	344.0	NNW	1.3	359.0	N	2.1	10.0	N
08:00 PM - 09:00 PM	1.3	358.0	N	1.5	5.0	N	1.1	39.0	NE	0.7	359.0	N	1.4	301.0	VNW	1.8	28.0	NNE	1.3	0.0	N
09:00 PM - 10:00 PM	5.1	20.0	NNE	3.7	16.0	NNE	1.6	3.0	N	3.8	7.0	N	0.8	5.0	N	1.5	349.0	N	0.7	72.0	ENE
10:00 PM - 11:00 PM	0.9	359.0	N	1.7	0.0	N	1.2	30.0	NNE	1.9	359.0	N	1.1	346.0	NNW	3.3	354.0	N	0.8	26.0	NNE
11:00 PM - 12:00 AM	2.2	39.0	NE	1.9	359.0	N	3.3	42.0	NE	1.7	34.0	NE	2.3	145.0	SE	0.6	17.0	NNE	1.1	33.0	NNE
12:00 AM - 01:00 AM	3.3	343.0	NNW	5.1	18.0	NNE	2.9	339.0	NNW	0.6	124.0	SE	1.8	3.0	N	0.3	58.0	ENE	0.8	33.0	NNE
01:00 AM - 02:00 AM	1.8	352.0	N	2.2	359.0	N	2.2	1.0	N	1.1	87.0	E	0.5	307.0	NW	0.5	31.0	NNE	0.0	-	-
02:00 AM - 03:00 AM	2.2	34.0	NE	0.3	67.0	ENE	1.3	77.0	ENE	2.6	144.0	SE	1.6	62.0	ENE	3.2	29.0	NNE	0.0	-	-
03:00 AM - 04:00 AM	0.4	84.0	E	3.7	359.0	N	1.8	13.0	NNE	0.5	169.0	S	2.4	359.0	N	0.6	85.0	E	0.0	-	-
04:00 AM - 05:00 AM	0.9	79.0	E	0.5	1.0	N	2.5	9.0	N	0.8	162.0	SSE	1.2	359.0	N	0.0	-	0.0	-	-	-
05:00 AM - 06:00 AM	0.4	355.0	N	0.0	-	-	0.3	22.0	NNE	0.0	-	-	0.0	-	-	0.0	-	0.0	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.3	352.0	N	0.0	-	-	1.5	0.0	N	0.0	-	0.0	-	-	-
07:00 AM - 08:00 AM	1.2	2.0	N	0.0	-	-	0.5	355.0	N	0.0	-	-	0.6	0.0	N	0.0	-	0.0	-	-	-
08:00 AM - 09:00 AM	2.1	10.0	N	0.0	-	-	0.7	9.0	N	0.0	-	-	0.9	359.0	N	0.0	-	0.3	34.0	NE	-
09:00 AM - 10:00 AM	0.0	-	-	0.4	359.0	N	0.3	359.0	N	0.5	74.0	ENE	0.0	-	-	0.0	-	0.2	-	-	-
10:00 AM - 11:00 AM	0.3	22.0	NNE	0.0	-	-	0.1	-	-	0.5	5.0	N	0.0	-	-	0.0	-	1.0	36.0	NE	-
11:00 AM - 12:00 PM	0.9	359.0	N	0.6	0.0	N	0.5	359.0	N	0.4	359.0	N	0.0	-	-	0.0	-	1.6	44.0	NE	-

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 TSS Co., Ltd.

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

P/O : 4210402620

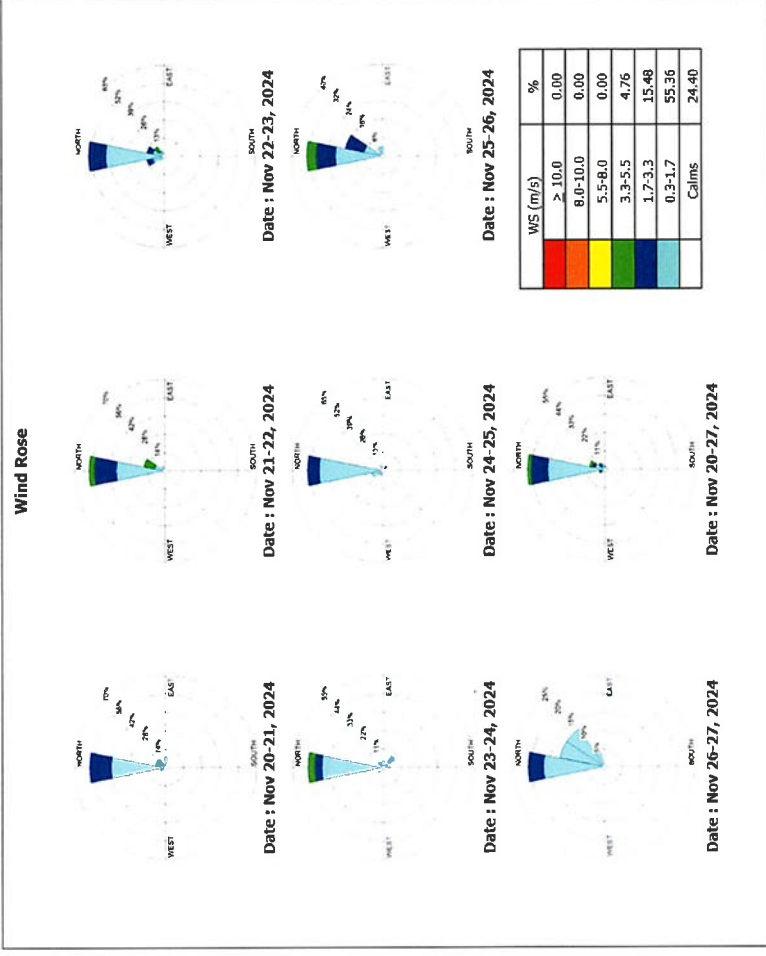
Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 24121392

Date Received :Dec 05, 2024  
Date Reported :Dec 11, 2024  
Report Number :3145420-1

Page 2 of 2



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

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

## Analysis / Test Report

Lot ID: 24121392

Date Received :Dec 05, 2024

Date Reported :Dec 11, 2024

Report Number :3145420-1

Sample Number 24121392-22 to 28

Parameter Wind Speed / Wind Direction

Location กรุงเทพมหานคร (GPS 47P 0738170, 1442937)

Sampling Date Nov 20 - Nov 27, 2024

Sampling by Anurak Tongkhajonsakda

Page 1 of 2

Time	Nov 20 - Nov 21, 2024	Nov 21 - Nov 22, 2024	Nov 22 - Nov 23, 2024	Nov 23 - Nov 24, 2024	Nov 24 - Nov 25, 2024	Nov 25 - Nov 26, 2024	Nov 26 - Nov 27, 2024
WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
09:00 AM - 10:00 AM	0.6 60.0 ENE	0.5 49.0 NE	0.6 74.0 ENE	0.5 48.0 NE	0.4 61.0 ENE	0.3 47.0 NE	0.0 -
10:00 AM - 11:00 AM	0.6 53.0 NE	0.4 47.0 NE	0.5 83.0 E	0.7 81.0 E	0.2 -	0.5 81.0 E	0.0 -
11:00 AM - 12:00 PM	0.9 66.0 ENE	0.5 48.0 NE	0.3 60.0 ENE	0.2 -	0.6 45.0 NE	0.3 26.0 NNE	0.2 -
12:00 PM - 01:00 PM	0.4 58.0 ENE	0.1 -	0.4 68.0 ENE	0.7 60.0 ENE	0.6 59.0 ENE	0.4 65.0 ENE	0.3 66.0 ENE
01:00 PM - 02:00 PM	0.8 61.0 ENE	0.4 66.0 ENE	0.6 59.0 ENE	0.3 68.0 ENE	0.7 62.0 ENE	0.4 54.0 NE	0.6 58.0 ENE
02:00 PM - 03:00 PM	1.3 63.0 ENE	0.4 34.0 NE	0.2 -	0.7 48.0 NE	0.6 50.0 NE	0.5 40.0 NE	0.7 60.0 ENE
03:00 PM - 04:00 PM	0.4 66.0 ENE	0.4 69.0 ENE	0.0 -	0.4 23.0 NNE	0.3 56.0 ENE	0.3 58.0 ENE	1.8 130.0 SE
04:00 PM - 05:00 PM	0.5 56.0 NE	0.8 28.0 NNE	0.6 46.0 NE	0.1 -	0.2 -	0.2 -	0.6 17.0 NNE
05:00 PM - 06:00 PM	0.8 37.0 NE	0.7 45.0 NE	0.3 73.0 ENE	0.4 44.0 NE	1.4 117.0 ESE	0.6 80.0 E	0.4 44.0 NE
06:00 PM - 07:00 PM	0.7 54.0 NE	1.1 71.0 ENE	0.7 116.0 ESE	0.8 14.0 NNE	0.7 70.0 ENE	0.3 67.0 ENE	0.6 45.0 NE
07:00 PM - 08:00 PM	2.6 349.0 N	0.6 47.0 NE	0.6 48.0 NE	0.4 52.0 NE	1.3 46.0 NE	1.6 123.0 ESE	1.6 49.0 NE
08:00 PM - 09:00 PM	1.4 62.0 ENE	0.8 56.0 NE	1.0 39.0 NE	0.7 135.0 SE	0.3 60.0 ENE	1.5 9.0 N	1.2 33.0 NNE
09:00 PM - 10:00 PM	1.0 127.0 SE	0.6 62.0 ENE	2.3 70.0 ENE	0.5 34.0 NE	0.5 96.0 E	0.7 132.0 SE	2.0 36.0 NE
10:00 PM - 11:00 PM	0.6 62.0 ENE	1.4 57.0 ENE	1.9 43.0 NE	1.1 97.0 E	1.6 50.0 NE	0.8 51.0 NE	0.7 58.0 ENE
11:00 PM - 12:00 AM	0.7 84.0 E	0.4 93.0 E	0.9 37.0 NE	1.0 51.0 NE	0.7 99.0 E	0.4 68.0 ENE	0.9 58.0 ENE
12:00 AM - 01:00 AM	0.1 -	0.4 153.0 SSE	0.3 178.0 S	0.7 85.0 E	0.2 -	0.8 78.0 ENE	0.6 55.0 NE
01:00 AM - 02:00 AM	0.2 -	0.5 65.0 ENE	0.6 81.0 E	0.7 61.0 ENE	0.5 45.0 NE	0.4 78.0 ENE	1.3 163.0 SSE
02:00 AM - 03:00 AM	0.2 -	0.0 -	0.3 72.0 ENE	0.8 94.0 E	0.5 46.0 NE	0.3 78.0 ENE	2.8 166.0 SSE
03:00 AM - 04:00 AM	0.0 -	0.0 -	0.4 55.0 NE	0.0 -	0.5 48.0 NE	0.1 -	3.1 57.0 ENE
04:00 AM - 05:00 AM	0.0 -	0.0 -	0.5 43.0 NE	0.0 -	0.5 68.0 ENE	0.0 -	0.1 -
05:00 AM - 06:00 AM	0.7 79.0 E	0.0 -	0.3 49.0 NE	0.0 -	0.3 79.0 E	0.0 -	1.2 41.0 NE
06:00 AM - 07:00 AM	0.5 97.0 E	0.0 -	0.4 64.0 ENE	0.2 -	0.3 77.0 ENE	0.4 43.0 NE	1.1 45.0 NE
07:00 AM - 08:00 AM	0.0 -	0.3 43.0 NE	0.8 53.0 NE	0.2 -	0.6 55.0 NE	0.0 -	0.4 61.0 ENE
08:00 AM - 09:00 AM	0.8 46.0 NE	0.7 53.0 NE	0.4 55.0 NE	0.9 49.0 NE	0.5 22.0 NNE	0.0 -	0.2 -

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont  
Assistant General Manager

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

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

## Analysis / Test Report

Lot ID: 24121392

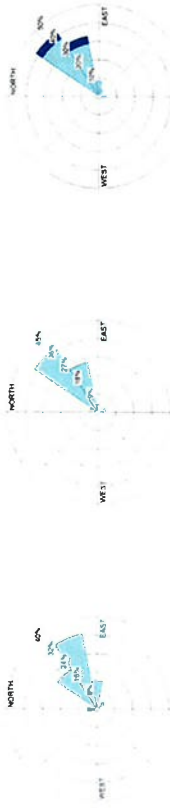
Date Received :Dec 05, 2024

Date Reported :Dec 11, 2024

Report Number :3145420-1

Page 2 of 2

### Wind Rose



Date : Nov 20-21, 2024

Date : Nov 21-22, 2024

Date : Nov 22-23, 2024



Date : Nov 23-24, 2024

Date : Nov 24-25, 2024

Date : Nov 25-26, 2024

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	4.17
0.3-1.7	75.00
Calms	20.83

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Assistant General Manager

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## ภาคผนวก ค-2

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คุณภาพอากาศจากปล่องระบายอากาศ





## Analysis / Test Report

**Client** : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Plak Daeng, Rayong  
Thailand 21140

**P/O** : 4210402620



**Project Name** : Monitoring EIA  
**Project Location** : GTS3

**Lot ID: 24121406**  
Date Received :Nov 21, 2024  
Date Reported :Dec 03, 2024  
Report Number :3145439-1

Page 1 of 1

[illegible]

Sakcit Phaisanphisit  
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)

<b>Technical Management</b>  Wichan Choonharat Manager เลขที่ใบอนุญาต ๓-2014-๔-0006	<b>Approved by</b>  Sarayuth Jittrantont Assistant General Manager เลขที่ใบอนุญาต ๓-2014-๔-0003
--	--

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand  
21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042

Lot ID: 24121420  
Date Received : Nov 21, 2024  
Date Reported : Nov 29, 2024  
Report Number: 3145456-1

Page 1 of 2

Sample Number 24121420-1  
Sampled Date Nov 21, 2024  
Sample Description Emission from Stationary Source  
Location Ulaea HRSG 11  
Date Analysis Commenced Nov 25, 2024  
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description				Testing Location	
Ambient Pressure	751	mmHg	Diameter	3.00	m
Ambient Temperature	31.8	°C	Shape	Circle	
Type of Process	Combustion		Stack Temperature	113	°C
Type of Fuel	Natural Gas		Moisture	7.43	%
			Flow Rate (Actual O2)	296885	Nm3/hr

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

Guideline :  
Guideline (1) Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management *Thanitak.* Approved by *D. Juman.*  
Thanita Kulsuriwong  
Scientist (4)  
vstduanayf 7-323-a-0029  
Dej Changchon  
Senior Manager  
vstduanayf 7-323-a-0001

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand  
21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042

Lot ID: 24121420  
Date Received : Nov 21, 2024  
Date Reported : Nov 29, 2024  
Report Number: 3145456-1

Page 2 of 2

Sample Number 24121420-1  
Sampled Date Nov 21, 2024  
Sample Description Emission from Stationary Source  
Location Ulaea HRSG 11  
Date Analysis Commenced Nov 25, 2024  
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description				Testing Location	
Ambient Pressure	751	mmHg	Diameter	3.00	m
Ambient Temperature	31.8	°C	Shape	Circle	
Type of Process	Combustion		Stack Temperature	113	°C
Type of Fuel	Natural Gas		Moisture	7.43	%
			Flow Rate (Actual O2)	296885	Nm3/hr

Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline (1)	Method (2)	Testing Location
Air Testing							
Total Suspended Particulate	10:20 AM - 11:08 AM	g/s	-	<0.041	1.8	Calculated	Rayong

Guideline :  
Guideline (1) Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Sampling By : Warawut Pupba vstduanayf 7-323-a-0033

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

Technical Management *Thanitak.* Approved by *D. Juman.*  
Thanita Kulsuriwong  
Scientist (4)  
vstduanayf 7-323-a-0029  
Dej Changchon  
Senior Manager  
vstduanayf 7-323-a-0001

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

**Client** : Gulf TSS Co., Ltd.

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

**P/O** : 4210402620

**Project Name** : Monitoring EIA

**Project Location** : GTS3

**Lot ID: 24121407**

Date Received : Nov 21, 2024  
Date Reported : Dec 03, 2024  
Report Number : 3145438-1

Page 1 of 1

**Sample Number** 24121407-1  
**Sample Description** Emission from Stationary Source  
**Location** จ้างา HRSG 12  
**Measurement Date** Nov 21, 2024

Stack Description									
Ambient Temperature	31.8	°C	Diameter	3.00	m	Oxygen	14.03	%	
Ambient Pressure	751.3	mmHg	Shape	Circle		Carbon dioxide	3.93	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	17.28	m/s	
Type of Fuel	Natural Gas		Moisture	9.92	%	Flow Rate	303177	Nm <sup>3</sup> /hr	

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen at Actual O <sub>2</sub>	Sulfur Dioxide (ppm) at Actual O <sub>2</sub>	Sulfur Dioxide (ppm) at 7% O <sub>2</sub>
1	10:35 AM - 10:55 AM	14.04	3.94	13.28	26.91	0.04
2	10:56 AM - 11:16 AM	14.04	3.93	14.15	28.66	0.04
3	11:17 AM - 11:37 AM	14.02	3.94	14.14	28.54	0.04
Average (ppm)		14.03	3.93	13.85	28.03	0.04
Guideline <sup>1</sup> (ppm)				60	-	6
Guideline <sup>2</sup> (ppm)				120	-	20
Result (mg/Nm <sup>3</sup> )				26.07	52.74	0.11
Emission Rate at Actual O <sub>2</sub> (g/s)				2.1952		0.0090
Guideline <sup>3</sup> (g/s)				7.4		1.0
Method				US EPA Method 7E	US EPA Method 7E	US EPA Method 6C

**Sampled By** : Sathaporn Thakraw

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

<sup>2</sup>Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

**Technical Management**

**Wichan Choonharat**  
Manager  
โทรศัพท์ 7-204-8-0006

**Approved by**

**Sarayuht Jitranont**  
Assistant General Manager  
โทรศัพท์ 7-204-8-0003

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## Analysis / Test Report

**Client** : Gulf TSS Co., Ltd.

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

**P/O** : 4210402620

**Project Name** : Monitoring EIA

**Project Location** : GTS3

**Lot ID: 24121407**

Date Received : Nov 21, 2024  
Date Reported : Dec 03, 2024  
Report Number : 3145438-1

Page 1 of 1

**Sample Number** 24121407-1  
**Sample Description** Emission from Stationary Source  
**Location** จ้างา HRSG 12  
**Measurement Date** Nov 21, 2024

Stack Description									
Ambient Temperature	31.8	°C	Diameter	3.00	m	Oxygen	14.03	%	
Ambient Pressure	751.3	mmHg	Shape	Circle		Carbon dioxide	3.93	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	17.28	m/s	
Type of Fuel	Natural Gas		Moisture	9.92	%	Flow Rate	303177	Nm <sup>3</sup> /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>
1	10:35 AM - 10:55 AM	14.04	3.94	2.99	6.06
2	10:56 AM - 11:16 AM	14.04	3.93	2.55	5.16
3	11:17 AM - 11:37 AM	14.02	3.94	2.18	4.40
Average (ppm)		14.03	3.93	2.57	5.21
Guideline <sup>1</sup> (ppm)				-	690
Result (mg/Nm <sup>3</sup> )				2.95	5.96
Emission Rate at Actual O <sub>2</sub> (g/s)				0.2482	
Method				US EPA Method 10	

**Sampled By** : Sathaporn Thakraw

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

**Technical Management**

**Wichan Choonharat**  
Manager  
โทรศัพท์ 7-204-8-0006

**Approved by**

**Sarayuht Jitranont**  
Assistant General Manager  
โทรศัพท์ 7-204-8-0003

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## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand  
21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GT33

**Lot ID: 24121411**  
Date Received : Nov 21, 2024  
Date Reported : Nov 29, 2024  
Report Number: 3145449-1

TESTING  
No.0042

**Lot ID: 24121411**  
Date Received : Nov 21, 2024  
Date Reported : Nov 29, 2024  
Report Number: 3145449-1

Page 1 of 2

**Sample Number** 24121411-1  
**Sampled Date** Nov 21, 2024  
**Sample Description** Emission from Stationary Source  
**Location** 11km HRSG 12  
**Date Analysis Commenced** Nov 25, 2024  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description									
Ambient Pressure	751	mmHg	Diameter	3.00	m	Oxygen	14.0	%	
Ambient Temperature	31.8	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	17.3	m/s	
Type of Fuel	Natural Gas		Moisture	9.80	%	Flow Rate (Actual O2)	303948	Nm3/hr	
Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline	Method	Testing Location		

**Air Testing**  
Total Suspended Particulate 10:40 AM - 11:30 AM mg/m3 0.5 <0.5 <0.5 United States Environmental Protection Agency, EPA Method 5 Rayong

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf TSS Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Thanitak.

Thantana Kulsuriwong  
Scientist (4)  
วิมลนุสรณ์ 7-323-9-0029

Approved by

Dej Changchon

Senior Manager  
วิมลนุสรณ์ 7-323-9-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The part of this report may be reproduced in any form without written consent from the laboratory.  
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## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand  
21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GT33

**Lot ID: 24121411**  
Date Received : Nov 21, 2024  
Date Reported : Nov 29, 2024  
Report Number: 3145449-1

TESTING  
No.0042

Page 2 of 2

**Sample Number** 24121411-1  
**Sampled Date** Nov 21, 2024  
**Sample Description** Emission from Stationary Source  
**Location** 11km HRSG 12  
**Date Analysis Commenced** Nov 25, 2024  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description									
Ambient Pressure	751	mmHg	Diameter	3.00	m	Oxygen	14.0	%	
Ambient Temperature	31.8	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	112	°C	Gas Velocity	17.3	m/s	
Type of Fuel	Natural Gas		Moisture	9.80	%	Flow Rate (Actual O2)	303948	Nm3/hr	
Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline	Method	Testing Location		

**Air Testing**  
Total Suspended Particulate 10:40 AM - 11:30 AM g/s - <0.042 1.8 - Calculated Rayong

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf TSS Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.  
**Sampling By :** Suddamrong Chokpittan วิมลนุสรณ์ 7-323-9-0037

### Remark :

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

Technical Management

Thanitak.

Thantana Kulsuriwong  
Scientist (4)  
วิมลนุสรณ์ 7-323-9-0029

Approved by

Dej Changchon

Senior Manager  
วิมลนุสรณ์ 7-323-9-0001

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# ภาคผนวก ค-3

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ระดับเสียงโดยทั่วไป



Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS

Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190114-1

Page 1 of 1

Sample Number	24121402-1
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่ด้านทิศใต้ของถนน (GPS 47P 0737122, 1445264)
Measurement Date	Nov 20 - Nov 21, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.8	83.8	59.8
11:00 AM - 12:00 PM	64.2	76.7	59.7
12:00 PM - 01:00 PM	60.3	73.0	59.1
01:00 PM - 02:00 PM	62.8	70.2	59.1
02:00 PM - 03:00 PM	61.8	72.6	61.0
03:00 PM - 04:00 PM	61.9	72.4	61.2
04:00 PM - 05:00 PM	61.7	68.6	61.0
05:00 PM - 06:00 PM	61.7	74.9	61.0
06:00 PM - 07:00 PM	61.8	66.0	61.2
07:00 PM - 08:00 PM	62.3	66.6	61.7
08:00 PM - 09:00 PM	62.4	67.3	61.8
09:00 PM - 10:00 PM	62.3	65.3	61.8
10:00 PM - 11:00 PM	62.5	71.3	61.7
11:00 PM - 12:00 AM	60.9	68.3	59.7
12:00 AM - 01:00 AM	60.2	63.0	59.8
01:00 AM - 02:00 AM	60.2	64.4	59.7
02:00 AM - 03:00 AM	60.3	64.5	59.7
03:00 AM - 04:00 AM	60.2	65.5	59.7
04:00 AM - 05:00 AM	60.3	65.0	59.8
05:00 AM - 06:00 AM	60.2	62.1	59.7
06:00 AM - 07:00 AM	60.3	65.0	59.7
07:00 AM - 08:00 AM	60.6	73.5	59.9
08:00 AM - 09:00 AM	60.2	67.1	59.6
09:00 AM - 10:00 AM	60.0	72.2	59.4

Leq Average 24 hrs. (dB(A))	61.4
Lmax (dB(A))	83.8
L90 (dB(A))	59.8
Ldn (dB(A))	

Standard (dB(A)) 115  
Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานสิ่งแวดล้อมในชุมชน พ.ศ. 2540 (พ.ศ. 2540) สำหรับชุมชนประเภทชุมชนเมือง  
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานสิ่งแวดล้อมในชุมชน พ.ศ. 2540 (พ.ศ. 2540) สำหรับชุมชนประเภทชุมชนเมือง  
3. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานสิ่งแวดล้อมในชุมชน พ.ศ. 2540 (พ.ศ. 2540) สำหรับชุมชนประเภทชุมชนเมือง

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

Technical Management  
Chonticha Subongkloch  
Scientist (3)

Approved by

Supt S.

Supot Salameh  
Section Head

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Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS

Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190115-1

Page 1 of 1

Sample Number	24121402-2
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่ด้านทิศใต้ของถนน (GPS 47P 0737122, 1445264)
Measurement Date	Nov 21 - Nov 22, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.0	73.6	59.3
11:00 AM - 12:00 PM	59.8	67.2	59.2
12:00 PM - 01:00 PM	59.5	64.9	58.9
01:00 PM - 02:00 PM	62.8	70.7	59.0
02:00 PM - 03:00 PM	61.5	67.2	60.7
03:00 PM - 04:00 PM	61.5	66.9	60.7
04:00 PM - 05:00 PM	61.5	64.5	60.8
05:00 PM - 06:00 PM	61.6	72.3	61.0
06:00 PM - 07:00 PM	61.3	66.7	60.8
07:00 PM - 08:00 PM	61.7	65.7	61.1
08:00 PM - 09:00 PM	61.9	67.7	61.3
09:00 PM - 10:00 PM	61.7	67.1	61.2
10:00 PM - 11:00 PM	62.1	70.9	61.4
11:00 PM - 12:00 AM	61.0	67.5	60.3
12:00 AM - 01:00 AM	60.8	67.1	60.3
01:00 AM - 02:00 AM	60.9	65.1	60.4
02:00 AM - 03:00 AM	61.1	63.7	60.5
03:00 AM - 04:00 AM	61.2	72.3	60.6
04:00 AM - 05:00 AM	61.3	65.8	60.8
05:00 AM - 06:00 AM	61.4	64.4	60.9
06:00 AM - 07:00 AM	61.4	63.8	60.8
07:00 AM - 08:00 AM	61.5	75.5	60.9
08:00 AM - 09:00 AM	61.1	69.5	60.4
09:00 AM - 10:00 AM	61.3	77.1	60.2

Leq Average 24 hrs. (dB(A))	61.3
Lmax (dB(A))	77.1
L90 (dB(A))	60.7
Ldn (dB(A))	

Standard (dB(A)) 115  
Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานสิ่งแวดล้อมในชุมชน พ.ศ. 2540 (พ.ศ. 2540) สำหรับชุมชนประเภทชุมชนเมือง  
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานสิ่งแวดล้อมในชุมชน พ.ศ. 2540 (พ.ศ. 2540) สำหรับชุมชนประเภทชุมชนเมือง  
3. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานสิ่งแวดล้อมในชุมชน พ.ศ. 2540 (พ.ศ. 2540) สำหรับชุมชนประเภทชุมชนเมือง

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

Technical Management  
Chonticha Subongkloch  
Scientist (3)

Approved by

Supt S.

Supot Salameh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140  
**P/O :** 4210002620  
**Project Name :** Monitoring EIA

**Lot ID: 24121402**  
**Date Received :** Dec 05, 2024  
**Date Reported :** Dec 11, 2024  
**Report Number:** 3190117-1

Page 1 of 1

Sample Number	24121402-4		
	Parameter	Noise (Leq 24 hrs.)	u3z0n0u575aums (GPS 47P 073712Z, 1445264)
Location	Nov 23 - Nov 24, 2024		
Measurement Date	Anurak Tongkhajonsakda		
Measurement by	Serial No. 1222716		
Sound Level meter			
	Time	Leq (dB(A))	Lmax (dB(A))
	10:00 AM - 11:00 AM	59.5	65.9
	11:00 AM - 12:00 PM	59.3	64.3
	12:00 PM - 01:00 PM	59.3	64.4
	01:00 PM - 02:00 PM	63.4	71.5
	02:00 PM - 03:00 PM	61.3	67.2
	03:00 PM - 04:00 PM	61.3	64.6
	04:00 PM - 05:00 PM	61.3	79.4
	05:00 PM - 06:00 PM	61.3	68.1
	06:00 PM - 07:00 PM	60.8	67.5
	07:00 PM - 08:00 PM	61.3	65.2
	08:00 PM - 09:00 PM	61.6	65.3
	09:00 PM - 10:00 PM	61.6	63.4
	10:00 PM - 11:00 PM	62.4	67.9
	11:00 PM - 12:00 AM	62.0	70.3
	12:00 AM - 01:00 AM	61.6	64.3
	01:00 AM - 02:00 AM	62.0	64.2
	02:00 AM - 03:00 AM	62.0	64.5
	03:00 AM - 04:00 AM	62.3	65.1
	04:00 AM - 05:00 AM	62.4	64.8
	05:00 AM - 06:00 AM	62.2	64.7
	06:00 AM - 07:00 AM	62.1	64.3
	07:00 AM - 08:00 AM	62.5	68.4
	08:00 AM - 09:00 AM	62.0	70.1
	09:00 AM - 10:00 AM	61.1	70.6
			60.3

Leq Average 24 hrs. (dB(A))	61.6	
Lmax (dB(A))		79.4
L90 (dB(A))		
L50 (dB(A))	68.4	
L10 (dB(A))		
Ldn (dB(A))	70	115
Standard (dB(A))	ISO1996-1 and 1996-2	
Reference Method	1. การวัดการรบกวนจากสิ่งแวดล้อมภายนอก รอบๆ 15 (พ.ศ. 2540) และการวัดการรบกวนในสิ่งแวดล้อมภายใน	
Standard	2. วิธีการตรวจวัดการรบกวนจากสิ่งแวดล้อมภายในอาคาร และระดับเสียงที่ได้จากการประกอบกิจการ	
	โดย พ.ร.บ. 2548	
Remark	The laboratory has been certified as an accredited laboratory complying with the ISO/IEC 17025.	

<p><b>Technical Management</b></p> <p>Chonticha</p>	<p><b>Approved by</b></p> <p>Supt S.</p>
<p>Chonticha Subongkotch Scientist (3)</p>	<p>Supt Salameh Section Head</p>

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Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190118-1

Project Name : Monitoring EIA  
Project Location : GTSS

Page 1 of 1

Sample Number	24121402-5
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณพื้นที่โครงการ (GPS 47P 0737122, 1445264)
Measurement Date	Nov 24 - Nov 25, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.8	70.5	60.1
11:00 AM - 12:00 PM	60.7	63.6	60.0
12:00 PM - 01:00 PM	60.6	67.8	59.9
01:00 PM - 02:00 PM	60.6	63.2	59.9
02:00 PM - 03:00 PM	60.4	63.9	59.8
03:00 PM - 04:00 PM	60.7	66.4	60.1
04:00 PM - 05:00 PM	60.6	64.2	60.0
05:00 PM - 06:00 PM	61.6	67.0	61.1
06:00 PM - 07:00 PM	62.0	68.0	61.4
07:00 PM - 08:00 PM	62.2	67.4	61.6
08:00 PM - 09:00 PM	62.4	71.2	61.7
09:00 PM - 10:00 PM	61.3	67.8	60.6
10:00 PM - 11:00 PM	61.1	67.4	60.6
11:00 PM - 12:00 AM	61.2	65.4	60.7
12:00 AM - 01:00 AM	61.6	64.2	61.0
01:00 AM - 02:00 AM	61.7	65.2	61.1
02:00 AM - 03:00 AM	61.8	66.3	61.3
03:00 AM - 04:00 AM	61.9	64.9	61.4
04:00 AM - 05:00 AM	61.9	64.3	61.3
05:00 AM - 06:00 AM	61.9	76.0	61.4
06:00 AM - 07:00 AM	62.0	70.0	60.9
07:00 AM - 08:00 AM	61.6	77.6	60.7
08:00 AM - 09:00 AM	61.8	67.6	60.7
09:00 AM - 10:00 AM	61.1	67.5	60.4
Leq Average 24 hrs. (dB(A))	61.4	77.6	60.7
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))	68.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดการประเมินผลกระทบจากเสียงรบกวน และระดับเสียงที่ปลอดภัยจากผลกระทบจากเสียงรบกวน พ.ศ. 2548

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

Technical Management

Chonticha Subongkotch

Scientist (3)

Approved by

Supt S.

Supot Salamteh  
Section Head

Life Sciences

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Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190119-1

Project Name : Monitoring EIA  
Project Location : GTSS

Page 1 of 1

Sample Number	24121402-6
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณพื้นที่โครงการ (GPS 47P 0737122, 1445264)
Measurement Date	Nov 25 - Nov 26, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.8	67.9	60.2
11:00 AM - 12:00 PM	61.4	72.4	60.6
12:00 PM - 01:00 PM	62.1	69.4	60.6
01:00 PM - 02:00 PM	63.6	68.8	61.9
02:00 PM - 03:00 PM	64.5	65.5	61.8
03:00 PM - 04:00 PM	62.6	68.0	61.9
04:00 PM - 05:00 PM	62.5	72.7	61.9
05:00 PM - 06:00 PM	62.4	71.8	61.9
06:00 PM - 07:00 PM	62.9	66.9	62.3
07:00 PM - 08:00 PM	63.0	64.9	62.4
08:00 PM - 09:00 PM	63.0	65.1	62.5
09:00 PM - 10:00 PM	63.5	72.1	62.8
10:00 PM - 11:00 PM	61.8	69.6	60.8
11:00 PM - 12:00 AM	59.0	60.6	58.6
12:00 AM - 01:00 AM	59.1	62.1	58.6
01:00 AM - 02:00 AM	59.0	62.5	58.6
02:00 AM - 03:00 AM	59.2	61.2	58.7
03:00 AM - 04:00 AM	59.2	60.9	58.8
04:00 AM - 05:00 AM	59.2	62.6	58.7
05:00 AM - 06:00 AM	59.3	65.1	58.8
06:00 AM - 07:00 AM	59.7	73.2	59.0
07:00 AM - 08:00 AM	59.5	68.2	58.8
08:00 AM - 09:00 AM	59.2	64.6	58.5
09:00 AM - 10:00 AM	58.9	65.2	58.3
Leq Average 24 hrs. (dB(A))	61.3	73.2	60.2
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))	66.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดการประเมินผลกระทบจากเสียงรบกวน และระดับเสียงที่ปลอดภัยจากผลกระทบจากเสียงรบกวน พ.ศ. 2548

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

Technical Management

Chonticha Subongkotch

Scientist (3)

Approved by

Supt S.

Supot Salamteh  
Section Head

Life Sciences

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## Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190120-1

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Page 1 of 1

Sample Number	24121402-7
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณพื้นที่โครงการ (GPS 47P 0737122, 1445264)
Measurement Date	Nov 26 - Nov 27, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.2	65.2	59.6
11:00 AM - 12:00 PM	60.2	69.3	59.6
12:00 PM - 01:00 PM	64.3	72.4	60.0
01:00 PM - 02:00 PM	62.2	66.1	61.4
02:00 PM - 03:00 PM	62.2	65.5	61.5
03:00 PM - 04:00 PM	62.2	60.3	61.5
04:00 PM - 05:00 PM	62.2	69.0	61.6
05:00 PM - 06:00 PM	61.7	66.4	61.2
06:00 PM - 07:00 PM	62.2	66.1	61.7
07:00 PM - 08:00 PM	62.5	66.2	61.9
08:00 PM - 09:00 PM	62.4	64.2	61.9
09:00 PM - 10:00 PM	63.2	68.7	62.1
10:00 PM - 11:00 PM	62.8	71.1	62.0
11:00 PM - 12:00 AM	62.4	65.1	61.8
12:00 AM - 01:00 AM	62.8	65.0	62.2
01:00 AM - 02:00 AM	62.8	65.3	62.2
02:00 AM - 03:00 AM	63.1	65.9	62.5
03:00 AM - 04:00 AM	63.2	65.6	62.6
04:00 AM - 05:00 AM	63.0	65.5	62.4
05:00 AM - 06:00 AM	62.9	65.1	62.4
06:00 AM - 07:00 AM	63.3	69.2	62.5
07:00 AM - 08:00 AM	62.8	70.9	62.0
08:00 AM - 09:00 AM	61.9	71.4	61.1
09:00 AM - 10:00 AM	61.6	71.3	60.9
Leq Average 24 hrs. (dB(A))	62.5		
Lmax (dB(A))	80.3		61.8
L90 (dB(A))			
Ldn (dB(A))	69.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง การวัดระดับเสียงรบกวน และระดับเสียงในสถานที่พักอาศัย  
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง การวัดระดับเสียงรบกวน และระดับเสียงในสถานที่ทำงาน

Tested on: 2548  
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management  
Chonticha Subongkroch  
Scientist (3)

Approved by  
Supot Salamteah  
Section Head

Supt S.

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## Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190121-1

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Page 1 of 1

Sample Number	24121402-8
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณพื้นที่โครงการ (GPS 47P 0735491, 1445328)
Measurement Date	Nov 20 - Nov 21, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	57.3	78.9	51.4
11:00 AM - 12:00 PM	57.1	81.7	50.8
12:00 PM - 01:00 PM	59.6	86.9	48.0
01:00 PM - 02:00 PM	56.6	83.8	47.3
02:00 PM - 03:00 PM	55.1	81.3	45.7
03:00 PM - 04:00 PM	56.0	84.6	46.2
04:00 PM - 05:00 PM	50.0	77.7	45.2
05:00 PM - 06:00 PM	50.7	77.0	44.7
06:00 PM - 07:00 PM	59.3	79.9	49.4
07:00 PM - 08:00 PM	62.2	90.4	45.0
08:00 PM - 09:00 PM	47.4	67.4	44.1
09:00 PM - 10:00 PM	45.3	67.5	43.6
10:00 PM - 11:00 PM	45.0	65.0	43.2
11:00 PM - 12:00 AM	44.7	59.7	43.1
12:00 AM - 01:00 AM	43.7	56.0	42.3
01:00 AM - 02:00 AM	43.8	59.3	42.8
02:00 AM - 03:00 AM	44.8	57.7	43.1
03:00 AM - 04:00 AM	44.0	58.4	42.5
04:00 AM - 05:00 AM	43.6	53.3	42.3
05:00 AM - 06:00 AM	45.1	72.9	42.5
06:00 AM - 07:00 AM	50.9	81.0	43.7
07:00 AM - 08:00 AM	55.2	84.6	45.7
08:00 AM - 09:00 AM	55.2	76.8	45.7
09:00 AM - 10:00 AM	59.4	85.9	46.8
Leq Average 24 hrs. (dB(A))	55.1		
Lmax (dB(A))		90.4	44.7
L90 (dB(A))			
Ldn (dB(A))	56.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง การวัดระดับเสียงรบกวน และระดับเสียงในสถานที่พักอาศัย  
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง การวัดระดับเสียงรบกวน และระดับเสียงในสถานที่ทำงาน

Tested on: 2548  
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management  
Chonticha Subongkroch  
Scientist (3)

Approved by  
Supot Salamteah  
Section Head

Supt S.

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Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GT53

Page 1 of 1

Sample Number	24121402-9
Parameter	Noise (Leq 24 hrs.)
Location	โรงงานอุตสาหกรรม (GPS 47P 0735491, 1445328)
Measurement Date	Nov 21 - Nov 22, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.0	72.9	48.1
11:00 AM - 12:00 PM	52.9	76.5	46.5
12:00 PM - 01:00 PM	52.7	76.5	46.9
01:00 PM - 02:00 PM	51.8	73.1	46.4
02:00 PM - 03:00 PM	54.0	78.2	45.9
03:00 PM - 04:00 PM	56.0	75.7	47.7
04:00 PM - 05:00 PM	51.6	76.2	45.0
05:00 PM - 06:00 PM	57.0	89.4	45.4
06:00 PM - 07:00 PM	65.9	93.4	45.9
07:00 PM - 08:00 PM	60.4	86.4	45.9
08:00 PM - 09:00 PM	49.0	62.7	44.6
09:00 PM - 10:00 PM	46.0	63.0	43.9
10:00 PM - 11:00 PM	45.6	59.4	43.8
11:00 PM - 12:00 AM	45.3	73.1	43.5
12:00 AM - 01:00 AM	44.4	59.9	43.6
01:00 AM - 02:00 AM	44.5	57.4	43.2
02:00 AM - 03:00 AM	44.7	61.0	43.6
03:00 AM - 04:00 AM	45.4	59.9	44.3
04:00 AM - 05:00 AM	45.5	58.1	44.5
05:00 AM - 06:00 AM	46.1	58.5	44.6
06:00 AM - 07:00 AM	50.0	75.9	45.3
07:00 AM - 08:00 AM	51.9	74.9	47.4
08:00 AM - 09:00 AM	54.1	71.0	46.7
09:00 AM - 10:00 AM	52.1	75.8	47.2
Leq Average 24 hrs. (dB(A))	55.3	93.4	45.3
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))			
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานค่าระดับเสียงในชุมชน พ.ศ. 2540  
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานค่าระดับเสียงในชุมชน พ.ศ. 2540

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

Chonticha Subongkoch

Technical Management

Approved by

Chonticha Subongkoch

Supot Salamteah

Section Head

Supt S.

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Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GT53

Page 1 of 1

Sample Number	24121402-10
Parameter	Noise (Leq 24 hrs.)
Location	โรงงานอุตสาหกรรม (GPS 47P 0735491, 1445328)
Measurement Date	Nov 22 - Nov 23, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.3	82.4	47.5
11:00 AM - 12:00 PM	50.7	75.5	45.1
12:00 PM - 01:00 PM	55.2	83.9	44.8
01:00 PM - 02:00 PM	55.0	83.0	47.7
02:00 PM - 03:00 PM	54.7	83.4	44.9
03:00 PM - 04:00 PM	51.8	81.3	44.9
04:00 PM - 05:00 PM	52.3	79.8	45.3
05:00 PM - 06:00 PM	50.5	74.9	44.4
06:00 PM - 07:00 PM	62.8	88.1	47.6
07:00 PM - 08:00 PM	52.6	69.7	46.7
08:00 PM - 09:00 PM	48.5	72.0	44.2
09:00 PM - 10:00 PM	48.1	77.3	43.6
10:00 PM - 11:00 PM	47.3	72.5	43.0
11:00 PM - 12:00 AM	45.4	66.8	42.7
12:00 AM - 01:00 AM	52.1	77.2	43.2
01:00 AM - 02:00 AM	46.3	64.5	43.6
02:00 AM - 03:00 AM	46.5	66.1	42.9
03:00 AM - 04:00 AM	49.5	73.9	45.6
04:00 AM - 05:00 AM	49.3	70.4	45.9
05:00 AM - 06:00 AM	48.2	69.0	46.2
06:00 AM - 07:00 AM	47.8	68.8	46.0
07:00 AM - 08:00 AM	48.0	71.5	44.9
08:00 AM - 09:00 AM	47.4	66.7	45.5
09:00 AM - 10:00 AM	48.5	68.2	45.4
Leq Average 24 hrs. (dB(A))	53.1	88.1	44.9
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))			
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานค่าระดับเสียงในชุมชน พ.ศ. 2540  
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานค่าระดับเสียงในชุมชน พ.ศ. 2540

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

Chonticha Subongkoch

Technical Management

Approved by

Chonticha Subongkoch

Supot Salamteah

Section Head

Supt S.

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TESTING  
No.0042

Lot ID: 24121402

Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190124-1

Analysis / Test Report

Client : Gulf TSS Co., Ltd.

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

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Page 1 of 1

Sample Number	24121402-11
Parameter	Noise (Leq 24 hrs.)
Location	วัดวัดบ้านทุ่งหิน (GPS 47P 0735491, 1445328)
Measurement Date	Nov 23 - Nov 24, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.9	77.1	46.4
11:00 AM - 12:00 PM	51.3	66.9	46.2
12:00 PM - 01:00 PM	50.4	70.9	46.0
01:00 PM - 02:00 PM	53.2	80.1	46.1
02:00 PM - 03:00 PM	50.8	72.2	47.0
03:00 PM - 04:00 PM	55.0	74.7	49.9
04:00 PM - 05:00 PM	52.1	68.4	48.5
05:00 PM - 06:00 PM	54.9	72.2	50.1
06:00 PM - 07:00 PM	52.9	66.6	48.0
07:00 PM - 08:00 PM	48.6	70.1	45.0
08:00 PM - 09:00 PM	48.8	65.9	44.0
09:00 PM - 10:00 PM	46.8	65.8	44.5
10:00 PM - 11:00 PM	45.3	66.7	43.0
11:00 PM - 12:00 AM	45.3	68.8	43.6
12:00 AM - 01:00 AM	45.3	60.0	43.0
01:00 AM - 02:00 AM	47.9	61.4	42.8
02:00 AM - 03:00 AM	47.9	72.9	43.4
03:00 AM - 04:00 AM	53.2	83.1	46.0
04:00 AM - 05:00 AM	51.2	69.1	46.8
05:00 AM - 06:00 AM	52.1	70.9	48.1
06:00 AM - 07:00 AM	51.8	68.2	46.8
07:00 AM - 08:00 AM	51.8	72.8	46.5
08:00 AM - 09:00 AM	66.3	80.6	44.2
09:00 AM - 10:00 AM	68.0	80.5	43.7

Leq Average 24 hrs. (dB(A))	57.5
Lmax (dB(A))	83.1
L90 (dB(A))	46.0
Ldn (dB(A))	59.4
Standard (dB(A))	70
Standard (dB(A))	115
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงจากโรงงานอุตสาหกรรม	
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงจากโรงงานอุตสาหกรรม	
ทั้งนี้ พ.ศ. 2548	
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.	

Technical Management

Chontichak

Chonticha Subongkloch  
Scientist (3)

Approved by

Supt S.

Supot Salamteeh  
Section Head

Life Sciences

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Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190125-1

Client : Gulf TSS Co., Ltd.

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

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Page 1 of 1

Sample Number	24121402-12
Parameter	Noise (Leq 24 hrs.)
Location	วัดวัดบ้านทุ่งหิน (GPS 47P 0735491, 1445328)
Measurement Date	Nov 24 - Nov 25, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	68.6	80.3	44.5
11:00 AM - 12:00 PM	56.6	79.9	46.3
12:00 PM - 01:00 PM	57.0	79.8	45.4
01:00 PM - 02:00 PM	50.2	75.1	44.2
02:00 PM - 03:00 PM	65.2	85.6	45.0
03:00 PM - 04:00 PM	68.5	76.7	48.6
04:00 PM - 05:00 PM	65.7	78.4	41.3
05:00 PM - 06:00 PM	51.0	65.8	46.3
06:00 PM - 07:00 PM	50.4	69.2	44.3
07:00 PM - 08:00 PM	47.2	68.4	42.3
08:00 PM - 09:00 PM	46.2	67.2	41.2
09:00 PM - 10:00 PM	46.5	70.7	43.8
10:00 PM - 11:00 PM	45.7	60.6	43.6
11:00 PM - 12:00 AM	46.2	65.7	43.1
12:00 AM - 01:00 AM	51.7	70.2	43.1
01:00 AM - 02:00 AM	48.7	67.4	43.3
02:00 AM - 03:00 AM	49.9	70.2	45.3
03:00 AM - 04:00 AM	50.3	70.5	45.1
04:00 AM - 05:00 AM	55.2	81.2	46.3
05:00 AM - 06:00 AM	57.1	79.0	47.5
06:00 AM - 07:00 AM	55.5	72.1	51.1
07:00 AM - 08:00 AM	57.0	75.1	50.5
08:00 AM - 09:00 AM	57.0	83.4	51.2
09:00 AM - 10:00 AM	56.0	73.4	51.5

Leq Average 24 hrs. (dB(A))	60.3
Lmax (dB(A))	85.6
L90 (dB(A))	45.0
Ldn (dB(A))	62.4
Standard (dB(A))	70
Standard (dB(A))	115
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงจากโรงงานอุตสาหกรรม	
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงจากโรงงานอุตสาหกรรม	
ทั้งนี้ พ.ศ. 2548	
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.	

Technical Management

Chontichak

Chonticha Subongkloch  
Scientist (3)

Approved by

Supt S.

Supot Salamteeh  
Section Head

Life Sciences

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S:\Reports\Air Noise rpt ( 4:18PM)



Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TSC Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190126-1

Project Name : Monitoring EIA  
Project Location : GT53

Page 1 of 1

Sample Number	24121402-13
Parameter	Noise (Leq 24 hrs.)
Location	โรงงานอุตสาหกรรม (GPS 47P 0735491, 1445328)
Measurement Date	Nov 25 - Nov 26, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.9	73.0	49.2
11:00 AM - 12:00 PM	57.5	85.1	49.9
12:00 PM - 01:00 PM	57.3	75.3	50.8
01:00 PM - 02:00 PM	57.3	83.1	49.9
02:00 PM - 03:00 PM	53.2	70.4	47.7
03:00 PM - 04:00 PM	55.5	78.5	46.2
04:00 PM - 05:00 PM	49.7	75.9	44.9
05:00 PM - 06:00 PM	47.6	64.8	45.5
06:00 PM - 07:00 PM	49.2	74.9	45.3
07:00 PM - 08:00 PM	48.1	61.6	45.8
08:00 PM - 09:00 PM	47.4	59.0	46.0
09:00 PM - 10:00 PM	48.9	71.1	47.7
10:00 PM - 11:00 PM	51.7	71.6	48.9
11:00 PM - 12:00 AM	51.2	62.8	48.4
12:00 AM - 01:00 AM	50.6	71.6	48.2
01:00 AM - 02:00 AM	49.6	64.5	48.3
02:00 AM - 03:00 AM	52.4	71.2	49.2
03:00 AM - 04:00 AM	54.7	74.5	49.7
04:00 AM - 05:00 AM	56.8	80.0	46.6
05:00 AM - 06:00 AM	59.0	84.0	51.5
06:00 AM - 07:00 AM	58.8	80.3	51.7
07:00 AM - 08:00 AM	58.4	81.1	51.5
08:00 AM - 09:00 AM	57.9	79.2	49.9
09:00 AM - 10:00 AM	60.2	83.4	49.5
Leq Average 24 hrs. (dB(A))	55.3		
Lmax (dB(A))		85.1	
L90 (dB(A))			48.4
Ldn (dB(A))			
Standard (dB(A))	70	115	
Reference Method : ISO1996-1 and 1996-2			
Standard : 1. ใช้มาตรฐานการวัดระดับเสียงตามข้อกำหนด 15 (พ.ศ. 2540) ของกรมอุตสาหกรรมพื้นฐานและการเหมืองแร่ 2. ใช้มาตรฐานการวัดระดับเสียงตามข้อกำหนด 15 (พ.ศ. 2540) ของกรมอุตสาหกรรมพื้นฐานและการเหมืองแร่			
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.			

Technical Management

Chonticha Subongkotch

Scientist (3)

Approved by

Supt S.

Supot Salameeh  
Section Head

Life Sciences

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Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TSC Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190127-1

Project Name : Monitoring EIA  
Project Location : GT53

Page 1 of 1

Sample Number	24121402-14
Parameter	Noise (Leq 24 hrs.)
Location	โรงงานอุตสาหกรรม (GPS 47P 0735491, 1445328)
Measurement Date	Nov 26 - Nov 27, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.2	79.9	49.4
11:00 AM - 12:00 PM	59.8	81.6	49.5
12:00 PM - 01:00 PM	66.5	88.6	50.4
01:00 PM - 02:00 PM	57.4	78.8	46.1
02:00 PM - 03:00 PM	53.1	77.9	45.4
03:00 PM - 04:00 PM	55.3	80.3	45.1
04:00 PM - 05:00 PM	50.8	72.7	45.5
05:00 PM - 06:00 PM	51.6	76.7	45.2
06:00 PM - 07:00 PM	51.7	82.0	45.3
07:00 PM - 08:00 PM	50.1	78.4	45.5
08:00 PM - 09:00 PM	57.7	84.4	45.9
09:00 PM - 10:00 PM	53.0	79.3	46.3
10:00 PM - 11:00 PM	53.6	78.5	47.0
11:00 PM - 12:00 AM	50.1	72.3	46.5
12:00 AM - 01:00 AM	50.1	75.7	44.7
01:00 AM - 02:00 AM	48.0	74.6	45.0
02:00 AM - 03:00 AM	46.2	67.1	44.9
03:00 AM - 04:00 AM	45.5	58.5	44.3
04:00 AM - 05:00 AM	46.7	61.9	45.3
05:00 AM - 06:00 AM	47.5	66.4	45.2
06:00 AM - 07:00 AM	54.5	76.9	49.7
07:00 AM - 08:00 AM	51.1	75.4	47.0
08:00 AM - 09:00 AM	55.0	79.9	47.4
09:00 AM - 10:00 AM	51.9	79.1	47.0
Leq Average 24 hrs. (dB(A))	56.1		
Lmax (dB(A))		88.6	
L90 (dB(A))			45.5
Ldn (dB(A))			
Standard (dB(A))	70	115	
Reference Method : ISO1996-1 and 1996-2			
Standard : 1. ใช้มาตรฐานการวัดระดับเสียงตามข้อกำหนด 15 (พ.ศ. 2540) ของกรมอุตสาหกรรมพื้นฐานและการเหมืองแร่ 2. ใช้มาตรฐานการวัดระดับเสียงตามข้อกำหนด 15 (พ.ศ. 2540) ของกรมอุตสาหกรรมพื้นฐานและการเหมืองแร่			
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.			

Technical Management

Chonticha Subongkotch

Scientist (3)

Approved by

Supt S.

Supot Salameeh  
Section Head

Life Sciences

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Analysis / Test Report

TESTING  
No.0042

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121402  
Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190128-1

Page 1 of 1

Sample Number	24121402-15
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณหน้าอาคาร (GPS 47P 0738701, 1444162)
Measurement Date	Nov 20 - Nov 21, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1122579

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.1	75.4	46.0
11:00 AM - 12:00 PM	48.6	65.8	45.2
12:00 PM - 01:00 PM	55.6	75.6	45.5
01:00 PM - 02:00 PM	55.2	66.6	46.7
02:00 PM - 03:00 PM	51.8	71.3	46.0
03:00 PM - 04:00 PM	49.8	69.3	44.7
04:00 PM - 05:00 PM	50.8	68.9	47.0
05:00 PM - 06:00 PM	52.0	78.7	47.8
06:00 PM - 07:00 PM	52.7	64.6	49.2
07:00 PM - 08:00 PM	57.7	84.8	51.8
08:00 PM - 09:00 PM	51.4	66.2	47.1
09:00 PM - 10:00 PM	51.0	76.9	47.0
10:00 PM - 11:00 PM	52.3	81.9	46.5
11:00 PM - 12:00 AM	47.9	72.8	44.9
12:00 AM - 01:00 AM	47.4	61.8	43.3
01:00 AM - 02:00 AM	45.9	61.8	43.3
02:00 AM - 03:00 AM	45.7	57.1	43.3
03:00 AM - 04:00 AM	46.7	60.3	43.6
04:00 AM - 05:00 AM	49.0	67.4	44.6
05:00 AM - 06:00 AM	51.3	70.0	45.8
06:00 AM - 07:00 AM	52.7	72.9	48.6
07:00 AM - 08:00 AM	53.5	67.3	49.8
08:00 AM - 09:00 AM	55.8	74.2	48.6
09:00 AM - 10:00 AM	55.5	80.6	47.6
Leq Average 24 hrs. (dB(A))	52.4	84.8	46.0
Lmax (dB(A))			46.0
L90 (dB(A))			46.0
Ldn (dB(A))	56.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่าระดับเสียงมาตรฐานสำหรับชุมชน พ.ศ. 2540  
2. ประกาศกระทรวงมหาดไทย เรื่อง ค่าระดับเสียงมาตรฐานสำหรับชุมชน พ.ศ. 2540

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

Technical Management

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Analysis / Test Report

TESTING  
No.0042

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121402  
Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190129-1

Page 1 of 1

Sample Number	24121402-16
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณหน้าอาคาร (GPS 47P 0738701, 1444162)
Measurement Date	Nov 21 - Nov 22, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1122579

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.0	68.0	48.1
11:00 AM - 12:00 PM	52.1	67.7	46.0
12:00 PM - 01:00 PM	54.2	82.2	45.5
01:00 PM - 02:00 PM	51.7	66.2	46.2
02:00 PM - 03:00 PM	47.3	66.0	43.9
03:00 PM - 04:00 PM	45.3	55.7	43.5
04:00 PM - 05:00 PM	44.9	55.9	43.3
05:00 PM - 06:00 PM	43.8	57.4	42.1
06:00 PM - 07:00 PM	43.7	52.9	42.2
07:00 PM - 08:00 PM	52.1	69.5	43.0
08:00 PM - 09:00 PM	50.8	70.9	42.7
09:00 PM - 10:00 PM	47.7	67.6	42.6
10:00 PM - 11:00 PM	50.1	65.9	42.5
11:00 PM - 12:00 AM	49.1	66.4	42.5
12:00 AM - 01:00 AM	48.0	63.0	43.4
01:00 AM - 02:00 AM	51.3	68.5	42.7
02:00 AM - 03:00 AM	47.1	63.3	43.0
03:00 AM - 04:00 AM	47.5	64.9	42.7
04:00 AM - 05:00 AM	43.9	58.7	41.9
05:00 AM - 06:00 AM	48.1	66.3	42.6
06:00 AM - 07:00 AM	47.6	63.0	44.2
07:00 AM - 08:00 AM	48.3	64.2	44.7
08:00 AM - 09:00 AM	48.0	65.1	44.5
09:00 AM - 10:00 AM	52.2	73.5	44.7
Leq Average 24 hrs. (dB(A))	49.6	82.2	43.0
Lmax (dB(A))			43.0
L90 (dB(A))			43.0
Ldn (dB(A))	55.2	115	
Standard (dB(A))	70		

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่าระดับเสียงมาตรฐานสำหรับชุมชน พ.ศ. 2540  
2. ประกาศกระทรวงมหาดไทย เรื่อง ค่าระดับเสียงมาตรฐานสำหรับชุมชน พ.ศ. 2540

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

Technical Management

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TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Date Reported : Dec 11, 2024  
Report Number: 3190130-1

Project Name : Monitoring EIA  
Project Location : GTS3

Page 1 of 1

## Analysis / Test Report

Sample Number	24121402-17		
Parameter	Noise (Leq 24 hrs.)		
Location	บ้านนาฝายท่ากุ่ม (GPS 47P 0738701, 1444162)		
Measurement Date	Nov 22 - Nov 23, 2024		
Measurement by	Anurak Tongkhajonsakda		
Sound Level meter	Serial No. 1122579		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.3	66.0	44.5
11:00 AM - 12:00 PM	53.9	70.5	43.8
12:00 PM - 01:00 PM	44.9	62.0	41.7
01:00 PM - 02:00 PM	46.5	64.5	42.2
02:00 PM - 03:00 PM	45.3	62.0	43.0
03:00 PM - 04:00 PM	46.7	59.6	42.2
04:00 PM - 05:00 PM	46.4	58.9	42.7
05:00 PM - 06:00 PM	48.2	61.6	44.3
06:00 PM - 07:00 PM	48.7	61.8	45.2
07:00 PM - 08:00 PM	47.4	60.9	45.3
08:00 PM - 09:00 PM	46.0	58.3	44.4
09:00 PM - 10:00 PM	46.4	54.2	45.2
10:00 PM - 11:00 PM	47.8	61.7	44.9
11:00 PM - 12:00 AM	46.0	63.9	41.0
12:00 AM - 01:00 AM	52.3	77.6	41.6
01:00 AM - 02:00 AM	46.3	60.7	41.1
02:00 AM - 03:00 AM	49.2	69.0	41.1
03:00 AM - 04:00 AM	56.9	69.4	48.9
04:00 AM - 05:00 AM	52.5	67.0	49.3
05:00 AM - 06:00 AM	52.0	65.0	46.6
06:00 AM - 07:00 AM	51.9	70.7	46.0
07:00 AM - 08:00 AM	53.6	81.5	45.5
08:00 AM - 09:00 AM	58.7	87.0	42.8
09:00 AM - 10:00 AM	67.2	81.4	46.1

Technical Management

Chonticha Subongkotch

Scientist (3)

Approved by

Supt S.

Supot Salamteah  
Section Head

Life Sciences

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## Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Date Reported : Dec 11, 2024  
Report Number: 3190131-1

Project Name : Monitoring EIA  
Project Location : GTS3

Page 1 of 1

Sample Number	24121402-18		
Parameter	Noise (Leq 24 hrs.)		
Location	บ้านนาฝายท่ากุ่ม (GPS 47P 0738701, 1444162)		
Measurement Date	Nov 23 - Nov 24, 2024		
Measurement by	Anurak Tongkhajonsakda		
Sound Level meter	Serial No. 1122579		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.4	74.0	41.6
11:00 AM - 12:00 PM	48.6	73.1	41.3
12:00 PM - 01:00 PM	69.5	84.3	46.4
01:00 PM - 02:00 PM	58.2	80.2	46.6
02:00 PM - 03:00 PM	65.8	79.9	47.5
03:00 PM - 04:00 PM	62.7	80.6	45.8
04:00 PM - 05:00 PM	61.4	81.8	51.6
05:00 PM - 06:00 PM	64.6	78.7	46.3
06:00 PM - 07:00 PM	63.4	77.5	45.1
07:00 PM - 08:00 PM	62.2	76.3	43.9
08:00 PM - 09:00 PM	65.1	81.1	49.4
09:00 PM - 10:00 PM	63.4	77.2	43.2
10:00 PM - 11:00 PM	45.0	67.5	41.3
11:00 PM - 12:00 AM	52.7	75.6	41.4
12:00 AM - 01:00 AM	49.4	75.5	40.8
01:00 AM - 02:00 AM	53.9	77.1	40.1
02:00 AM - 03:00 AM	50.0	69.2	42.7
03:00 AM - 04:00 AM	48.6	69.2	42.8
04:00 AM - 05:00 AM	50.6	71.1	43.1
05:00 AM - 06:00 AM	65.1	81.1	49.4
06:00 AM - 07:00 AM	58.0	75.3	48.8
07:00 AM - 08:00 AM	51.7	73.1	48.1
08:00 AM - 09:00 AM	50.7	69.5	45.9
09:00 AM - 10:00 AM	57.9	73.0	46.0

Technical Management

Chonticha Subongkotch

Scientist (3)

Approved by

Supt S.

Supot Salamteah  
Section Head

Life Sciences

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TESTING  
No.0042

Lot ID: 24121402

Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190132-1

## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GT53

Page 1 of 1

Sample Number	24121402-19
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่แนวฟาร์ม (GPS 47P 0738701, 1444162)
Measurement Date	Nov 24 - Nov 25, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1122579

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.1	81.7	43.5
11:00 AM - 12:00 PM	49.2	67.5	42.2
12:00 PM - 01:00 PM	47.8	64.4	41.6
01:00 PM - 02:00 PM	48.6	66.2	42.8
02:00 PM - 03:00 PM	50.6	71.1	43.1
03:00 PM - 04:00 PM	50.8	73.4	44.0
04:00 PM - 05:00 PM	50.7	68.9	45.2
05:00 PM - 06:00 PM	49.3	66.0	46.9
06:00 PM - 07:00 PM	49.5	67.8	45.4
07:00 PM - 08:00 PM	47.1	66.0	43.9
08:00 PM - 09:00 PM	45.2	71.7	43.0
09:00 PM - 10:00 PM	45.2	62.4	42.2
10:00 PM - 11:00 PM	44.9	69.0	40.9
11:00 PM - 12:00 AM	43.1	58.1	40.8
12:00 AM - 01:00 AM	44.8	66.0	40.5
01:00 AM - 02:00 AM	43.8	63.5	41.1
02:00 AM - 03:00 AM	51.8	75.2	42.1
03:00 AM - 04:00 AM	58.0	73.1	48.8
04:00 AM - 05:00 AM	51.7	73.1	48.1
05:00 AM - 06:00 AM	50.7	69.5	45.9
06:00 AM - 07:00 AM	53.1	82.2	44.8
07:00 AM - 08:00 AM	47.2	63.7	42.6
08:00 AM - 09:00 AM	47.1	63.0	42.6
09:00 AM - 10:00 AM	50.4	68.5	43.6

Leq Average 24 hrs. (dB(A))	51.1
Lmax (dB(A))	82.2
L90 (dB(A))	43.0
Ldn (dB(A))	
Standard (dB(A))	70
Standard (dB(A))	115
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ปริมาณการวัดเสียงและประเมินค่าด้วยวิธี 15 (พ.ศ. 2540) ซึ่งกำหนดวิธีการประเมินเสียงโดยทั่วไป	
2. ปริมาณการวัดเสียงและประเมินค่าด้วยวิธี 15 (พ.ศ. 2540) ซึ่งกำหนดวิธีการประเมินเสียงโดยทั่วไป	
ทั้งนี้ พ.ศ. 2548	
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.	

Technical Management  
Chonticha Subongkroch  
Scientist (3)

Approved by

Supt S.

Supot Salamteah  
Section Head

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S:\Reports\_Air Noise pr ( 4 20PM)



## Analysis / Test Report

TESTING  
No.0042

Lot ID: 24121402

Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190133-1

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GT53

Page 1 of 1

Sample Number	24121402-20
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่แนวฟาร์ม (GPS 47P 0738701, 1444162)
Measurement Date	Nov 25 - Nov 26, 2024
Measurement by	Anurak Tongkhajonsakda
Sound Level meter	Serial No. 1122579

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	51.0	66.6	44.3
11:00 AM - 12:00 PM	52.4	65.6	45.2
12:00 PM - 01:00 PM	53.0	64.7	45.6
01:00 PM - 02:00 PM	57.8	75.4	46.9
02:00 PM - 03:00 PM	57.1	72.2	45.2
03:00 PM - 04:00 PM	57.3	80.9	42.7
04:00 PM - 05:00 PM	48.4	66.7	41.4
05:00 PM - 06:00 PM	47.0	63.6	40.8
06:00 PM - 07:00 PM	47.8	68.4	42.0
07:00 PM - 08:00 PM	49.8	70.3	42.3
08:00 PM - 09:00 PM	49.9	72.6	43.2
09:00 PM - 10:00 PM	48.5	68.1	44.4
10:00 PM - 11:00 PM	48.7	65.2	46.1
11:00 PM - 12:00 AM	46.3	67.0	44.6
12:00 AM - 01:00 AM	44.4	65.2	43.1
01:00 AM - 02:00 AM	44.4	70.9	42.2
02:00 AM - 03:00 AM	44.1	61.6	41.4
03:00 AM - 04:00 AM	42.3	68.2	40.1
04:00 AM - 05:00 AM	42.3	57.3	40.0
05:00 AM - 06:00 AM	43.0	67.2	39.7
06:00 AM - 07:00 AM	51.0	62.7	40.3
07:00 AM - 08:00 AM	51.0	74.4	41.3
08:00 AM - 09:00 AM	57.2	74.5	48.0
09:00 AM - 10:00 AM	50.9	72.3	47.3

Leq Average 24 hrs. (dB(A))	51.9
Lmax (dB(A))	80.9
L90 (dB(A))	
Ldn (dB(A))	54.5
Standard (dB(A))	70
Standard (dB(A))	115
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ปริมาณการวัดเสียงและประเมินค่าด้วยวิธี 15 (พ.ศ. 2540) ซึ่งกำหนดวิธีการประเมินเสียงโดยทั่วไป	
2. ปริมาณการวัดเสียงและประเมินค่าด้วยวิธี 15 (พ.ศ. 2540) ซึ่งกำหนดวิธีการประเมินเสียงโดยทั่วไป	
ทั้งนี้ พ.ศ. 2548	
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.	

Technical Management  
Chonticha Subongkroch  
Scientist (3)

Approved by

Supt S.

Supot Salamteah  
Section Head

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Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121402  
Date Received : Dec 05, 2024  
Date Reported : Dec 11, 2024  
Report Number: 3190134-1

Page 1 of 1

Sample Number	24121402-21
Parameter	Noise (Leq 24 hrs.)
Location	บ้านนาผือพัฒนา (GPS 47P 0738701, 1444162)
Measurement Date	Nov 26 - Nov 27, 2024
Measurement by	Anurak Tongkhamsookda
Sound Level meter	Serial No. 1122579

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.9	68.7	45.1
11:00 AM - 12:00 PM	52.3	81.4	44.0
12:00 PM - 01:00 PM	46.4	62.9	41.8
01:00 PM - 02:00 PM	46.3	62.2	41.8
02:00 PM - 03:00 PM	49.6	67.7	42.8
03:00 PM - 04:00 PM	50.2	65.8	43.5
04:00 PM - 05:00 PM	51.6	64.8	44.4
05:00 PM - 06:00 PM	55.2	69.6	46.5
06:00 PM - 07:00 PM	56.4	69.3	54.1
07:00 PM - 08:00 PM	53.9	72.5	51.3
08:00 PM - 09:00 PM	51.2	68.1	43.6
09:00 PM - 10:00 PM	46.4	68.0	41.6
10:00 PM - 11:00 PM	45.7	61.5	41.3
11:00 PM - 12:00 AM	45.4	66.0	41.1
12:00 AM - 01:00 AM	43.5	56.7	41.0
01:00 AM - 02:00 AM	43.7	59.9	40.5
02:00 AM - 03:00 AM	44.5	64.7	40.6
03:00 AM - 04:00 AM	45.7	63.0	41.3
04:00 AM - 05:00 AM	44.8	68.0	40.5
05:00 AM - 06:00 AM	43.8	63.5	41.1
06:00 AM - 07:00 AM	52.1	69.8	47.4
07:00 AM - 08:00 AM	52.7	68.9	46.7
08:00 AM - 09:00 AM	52.3	68.9	46.8
09:00 AM - 10:00 AM	52.7	68.9	46.7
Leq Average 24 hrs. (dB(A))	50.7		
Lmax (dB(A))	81.4		42.8
L90 (dB(A))			
Ldn (dB(A))	54.3		
Standard (dB(A))	70		115

Reference Method : ISO1996-1 and 1996-2  
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงในชุมชน  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงมาตรฐาน สำหรับสิ่งแวดล้อมจากการทำงานของเครื่องจักร

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

Technical Management : Chontichak Chonticha Subongkloeh Scientist (3)  
Approved by : Supt S. Supot Salamteh Section Head

## ภาคผนวก ค-4

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คุณภาพน้ำทิ้งจากระบบการผลิต



## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTSS3

**TESTING**  
No.004/2  
**Lot ID: 2466478**  
Date Received : Jul 04, 2024  
Date Reported : Jul 11, 2024  
Report Number : 3021532-1

Page 1 of 2

Sample Number	Unit	LOD	LOQ (LQR)	Result	Guideline / Specification	Method	Testing Location
2466478-1							
Sample Date	Jul 04, 2024 10:30 AM						
Sample Description	Wastewater						
Location	ในพื้นที่โรงงาน						
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LQR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADNI	-	5	6	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADNI	-	5	6	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (5)	Rayong
Temperature *	Degree C	-	-	32.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	144	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 Degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2557 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.  
**Sampling By :** Nantat thammassaro รหัสดูงานที่ ๓-323-๙-9477

Technical Management

Photchanan S.

Approved by

D. J. J. J.

Photchanan Seeda  
Scientist (4)  
รหัสดูงานที่ ๓-323-๙-9442

Dej Changchon  
Senior Manager  
รหัสดูงานที่ ๓-323-๙-9442

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

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## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTSS3

**TESTING**  
No.004/2  
**Lot ID: 2466478**  
Date Received : Jul 04, 2024  
Date Reported : Jul 11, 2024  
Report Number : 3021532-1

Page 2 of 2

Remark :  
- LOD : Limit of Detection  
- <" : Lower than LOQ (Limit of Quantitation) / LQR (Limit of Reporting)  
- Analyte(s) marked \* before 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

Photchanan S.

Approved by

D. J. J. J.

Photchanan Seeda  
Scientist (4)  
รหัสดูงานที่ ๓-323-๙-9442

Dej Changchon  
Senior Manager  
รหัสดูงานที่ ๓-323-๙-9442

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

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042  
**Lot ID: 2480590**  
Date Received : Aug 02, 2024  
Date Reported : Aug 09, 2024  
Report Number : 3055228-1

Page 1 of 2

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	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 521.0 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	9	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.5	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	148	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.  
**Sampling By** : Narurat thaminasaro ๖๓๓๓๓๓๓๓ ๖-323-๙-9477

Technical Management

Photchanas S.

Photchanas Seeda  
Scientist (4)  
๖๓๓๓๓๓๓ ๖-323-๙-9446

Approved by

D. Chongchon

Dej Chongchon  
Senior Manager  
๖๓๓๓๓๓๓ ๖-323-๙-9442

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S:\Report\AL\_GA\_01 (1-2009)

## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042  
**Lot ID: 2480590**  
Date Received : Aug 02, 2024  
Date Reported : Aug 09, 2024  
Report Number : 3055228-1

Page 2 of 2

Remark :  
\* LOD : Limit of Detection  
\* "L" : 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

Photchanas S.

Photchanas Seeda  
Scientist (4)  
๖๓๓๓๓๓๓ ๖-323-๙-9446

Approved by

D. Chongchon

Dej Chongchon  
Senior Manager  
๖๓๓๓๓๓๓ ๖-323-๙-9442

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

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

TESTING  
No.0042  
Lot ID: 24100621  
Date Received : Sep 03, 2024  
Date Reported : Sep 09, 2024  
Report Number : 3097061-1

Page 1 of 2

Sample Number	Unit	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
24100621-1						
Sample Date	Sep 03, 2024 9:53 AM					
Sample Description	Wastewater					
Location	น้ำทิ้งจากโรงงาน					
Date Analysis Commenced	Sep 03, 2024					
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	5	8	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	5	7	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C			7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C		30.8	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	5	68	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 105-105 Degree C	mg/L	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.  
Sampling By : Nattawut Athomprommarat รหัสประจำตัว 3-323-a-0006

### Technical Management

Photchana Seeda  
Scientist (4)  
รหัสประจำตัว 3-323-a-0028

### Approved by

Dej Changchon  
Senior Manager  
รหัสประจำตัว 3-323-a-0001

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

TESTING  
No.0042  
Lot ID: 24100621  
Date Received : Sep 03, 2024  
Date Reported : Sep 09, 2024  
Report Number : 3097061-1

Page 2 of 2

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

### Technical Management

Photchana Seeda  
Scientist (4)  
รหัสประจำตัว 3-323-a-0028

### Approved by

Dej Changchon  
Senior Manager  
รหัสประจำตัว 3-323-a-0001

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## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location:** GTS3

**TESTING**  
No.0042  
**Lot ID: 24109327**  
Date Received : Oct 03, 2024  
Date Reported : Oct 10, 2024  
Report Number : 3117716-1

## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location:** GTS3

**TESTING**  
No.0042  
**Lot ID: 24109327**  
Date Received : Oct 03, 2024  
Date Reported : Oct 10, 2024  
Report Number : 3117716-1

Page 1 of 2

Sample Number		24109327-1					
Sampled Date		Oct 03, 2024 10:20 AM					
Sample Description		Wastewater					
Location		บริเวณน้ำทิ้ง					
Date Analysis Commenced		Oct 03, 2024					
Condition of Sample		Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	5	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.2	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	460	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.  
**Sampling By :** Warunyoo Chimphalee วิจัยสุภาวดี 3-323-0-0020

**Technical Management**  
Photchanas S.  
Photchanas Seeda  
Scientist (4)  
วิศกรสุภาวดี 3-323-0-0028

**Approved by**  
Dej Changchon  
Senior Manager  
วิศกรสุภาวดี 3-323-0-0001

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- "L" : 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**  
Photchanas S.  
Photchanas Seeda  
Scientist (4)  
วิศกรสุภาวดี 3-323-0-0028

**Approved by**  
Dej Changchon  
Senior Manager  
วิศกรสุภาวดี 3-323-0-0001

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Analysis / Test Report

Client : Gulf TSS Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTSS3

TESTING  
No.0042  
Lot ID: 24121883

Date Received : Nov 06, 2024

Date Reported : Nov 13, 2024

Report Number : 3146017-1

Page 1 of 2

Sample Number	24121883-1
Sample Date	Nov 06, 2024 9:55 AM
Sample Description	Wastewater
Location	ในพื้นที่โรงงาน
Date Analysis Commenced	Nov 06, 2024
Condition of Sample	Contained in one amber glass bottle and two plastic bottles; sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	18	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	15	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (6)	Rayong
Temperature *	Degree C	-	-	31.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	76	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 105-105 Degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampling By : Surawit Narapong รหัสงาน 7-323-4-0011

Technical Management

Photchanan S.

Photchanan Seeda  
Scientist (4)  
รหัสงาน 7-323-4-0028

Approved by

D. Changchon

Dej Changchon  
Senior Manager  
รหัสงาน 7-323-4-0001

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Analysis / Test Report

Client : Gulf TSS Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTSS3

TESTING  
No.0042  
Lot ID: 24121883

Date Received : Nov 06, 2024

Date Reported : Nov 13, 2024

Report Number : 3146017-1

Page 2 of 2

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

Technical Management

Photchanan S.

Photchanan Seeda  
Scientist (4)  
รหัสงาน 7-323-4-0028

Approved by

D. Changchon

Dej Changchon  
Senior Manager  
รหัสงาน 7-323-4-0001

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## Analysis / Test Report

**Client :** Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GT53

**TESTING**  
No.0042  
**Lot ID: 24132960**  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3174103-1

Page 1 of 2

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	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.3	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	88	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in industrial estates.  
**Sampling By :** Narurat thammassaro รหัสมาตรฐาน 3-323-3-0052

**Technical Management**

**Photchanas S.**

Photchanas Seeda  
Scientist (4)  
รหัสมาตรฐาน 3-323-3-0028

**Approved by**

**D. Phum**

Dej Changchon  
Senior Manager  
รหัสมาตรฐาน 3-323-3-0001

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## Analysis / Test Report

**Client :** Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GT53

**TESTING**  
No.0042  
**Lot ID: 24132960**  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3174103-1

Page 2 of 2

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**Technical Management**

**Photchanas S.**

Photchanas Seeda  
Scientist (4)  
รหัสมาตรฐาน 3-323-3-0028

**Approved by**

**D. Phum**

Dej Changchon  
Senior Manager  
รหัสมาตรฐาน 3-323-3-0001

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# ภาคผนวก ค-5

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042  
Lot ID: 2466480  
Date Received : Jul 04, 2024  
Date Reported : Jul 12, 2024  
Report Number : 3021533-1

Page 1 of 2

Sample Number	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
2466480-1								
Sampled Date	Jul 04, 2024 10:15 AM							
Sample Description	Wastewater							
Location	บ้านใหม่ลาด							
Date Analysis Commenced	Jul 04, 2024							
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Physical Property	Yellow, some odour, solid and no turbid							
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	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O.G	Rayong
Color (at Original pH)	ADMI	-	5	17	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	16	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
pH at 25 degree C		-	-	8.1	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	≤34	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	704	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Nanunat thammesso รหัสประจำตัว 7-323-4-9477, Sanart Khumphee รหัสประจำตัว 7-204-4-0084

Remark :

LOD : Limit of Detection

Technical Management

Chonticha Subongkoch  
Scientist (3)  
รหัสประจำตัว 7-323-4-9449

Approved by

Dej Changchon  
Senior Manager  
รหัสประจำตัว 7-323-4-9442

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042  
Lot ID: 2466480  
Date Received : Jul 04, 2024  
Date Reported : Jul 12, 2024  
Report Number : 3021533-1

Page 2 of 2

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

Technical Management

Chonticha Subongkoch  
Scientist (3)  
รหัสประจำตัว 7-323-4-9449

Approved by

Dej Changchon  
Senior Manager  
รหัสประจำตัว 7-323-4-9442

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## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTSS3

**Lot ID: 2466480**  
Date Received : Jul 04, 2024  
Date Reported : Jul 12, 2024  
Report Number : 3021533-2

Page 1 of 1

Sample Number	Sampled Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Physical Property
2466480-1	Jul 04, 2024 10:15 AM	Wastewater	ในถังพักน้ำดิบ	Jul 05, 2024	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Calcium	mg/L	0.003	0.005	4.49	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	1.31	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	-	2.07	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	3.53	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>								
Chlorite	mg/L	0.05	0.1	<0.10	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1995, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.7	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

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

**Sampling By :** Narurat thammaseero, Smart Khumplhee

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

*Savitree N.*

Approved by

Savitree Naisangiam  
Manager

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## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTSS3

**Lot ID: 2480591**  
Date Received : Aug 02, 2024  
Date Reported : Aug 09, 2024  
Report Number : 3055232-1

Page 1 of 2

Sample Number	Sampled Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample
2480591-1	Aug 02, 2024 9:53 AM	Wastewater	ในถังพักน้ำดิบ	Aug 02, 2024	Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O 6	Rayong
Color (at Original pH)	ADMI	-	5	18	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	16	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
pH at 25 degree C	-	-	-	8.2	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.6	≤40	≤34	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	676	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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

**Sampling By :** Narurat thammaseero, Kerdbundit Kitisupavant

**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.

*Photchanas S.*

Approved by

Dej Changchon  
Senior Manager

Photchanas Seeda  
Scientist (4)  
วตณูวาท 3-323-9-9446

วตณูวาท 3-323-9-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

TESTING  
No.0042  
Lot ID: 2480591  
Date Received : Aug 02, 2024  
Date Reported : Aug 09, 2024  
Report Number : 3055232-1

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

Page 2 of 2



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

TESTING  
No.0042  
Lot ID: 2480591  
Date Received : Aug 02, 2024  
Date Reported : Aug 09, 2024  
Report Number : 3055232-1

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

Page 2 of 2



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

Lot ID: 2480591  
Date Received : Aug 02, 2024  
Date Reported : Aug 09, 2024  
Report Number : 3055232-2

Page 1 of 1

Sample Number : 2480591-1  
Sampled Date : Aug 02, 2024 9:53 AM  
Sample Description : Wastewater  
Location : บ้านน้ำใส  
Date Analysis Commenced : Aug 05, 2024  
Condition of Sample : Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<strong>Metals Testing</strong>								
Calcium	mg/L	0.003	0.005	3.57	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	1.11	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	2.55	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	3.90	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<strong>Water Testing</strong>								
Chlorite	mg/L	0.05	0.1	<0.10	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1995, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.1	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 1950-D (C)	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

**Sampling By :** Narurat thammesaro , Kardbundi Kitisupavanit

Remark :  
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- "L" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by

Chanatt L.

Chanattagarn Inthom  
Section Head

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

TESTING  
No.0042  
Lot ID: 2480591  
Date Received : Aug 02, 2024  
Date Reported : Aug 09, 2024  
Report Number : 3055232-1

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

Page 2 of 2



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

TESTING  
No.0042  
Lot ID: 2480591  
Date Received : Aug 02, 2024  
Date Reported : Aug 09, 2024  
Report Number : 3055232-1

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

Page 2 of 2

Technical Management

Photchanan S.

Photchanan Seeda  
Scientist (4)  
โทรศัพท์ 3-323-9-9446

Approved by

Dej Changchon

Senior Manager  
โทรศัพท์ 3-323-9-9442

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Project Location : GTS3

Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3097065-1

Sample Number	241006Z4-1
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Project Name : M0110  
Project Location : CTS3

Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3097065-1

Page 2 of 2



Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3097065-1

Page 2 of 2

**Guideline:** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2550 (2017).

Remark :

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

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-ด-0001

Dej Changchon  
Senior Manager  
7-373-8

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Taat, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 24100624

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3097065-2

Page 1 of 1

Sample Number	24100624-1
Sampled Date	Sep 03, 2024 9:38 AM
Sample Description	Wastewater
Location	๒๒๓๗๒๒๒๒๒๒๒๒
Date Analysis Commenced	Sep 04, 2024
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Calcium	mg/L	0.003	0.005	2.89	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	0.88	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	3.27	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	4.49	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>								
Chlorite	mg/L	0.05	0.1	0.32	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1995, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.1	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

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

**Sampling By :** Nattawat Atthompramart, Kambundit Kitisupavanit

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

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Approved by

Savitree N.

Savitree Naisianglam  
Manager

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Taat, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

TESTING

No.0042

Lot ID: 24109329

Date Received : Oct 03, 2024

Date Reported : Oct 11, 2024

Report Number : 3117718-1

Page 1 of 2

Sample Number	24109329-1
Sampled Date	Oct 03, 2024 10:00 AM
Sample Description	Wastewater
Location	๒๒๓๗๒๒๒๒๒๒๒๒
Date Analysis Commenced	Oct 03, 2024
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMT	-	5	17	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMT	-	5	16	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
pH at 25 degree C	-	-	-	7.2	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.5	≤40	≤34	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	776	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Sampling By :** Warunyoo Chimpalee วาญยู วชิมาลัย 3-323-a-0020, Samart Khumphaee วาสนา วชิมาลัย 3-204-a-0084

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

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

Technical Management

Photchanas.

Photchanas Seeda  
Scientist (4)

Approved by

Dej Changchon  
Senior Manager

วชิมาลัย 3-323-a-0028

วชิมาลัย 3-323-a-0001

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## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTSS3

**TESTING**  
No.0042  
**Lot ID: 24109329**  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117718-1

Page 2 of 2

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

Page 1 of 1

## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTSS3

**TESTING**  
No.0009  
**Lot ID: 24109329**  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117718-2

Sample Number 24109329-1

Sampled Date Oct 03, 2024 10:00 AM

Sample Description Wastewater

Location บึงพักน้ำโรงงาน

Date Analysis Commenced Oct 04, 2024

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

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Calcium	mg/L	0.003	0.005	4.20	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	1.14	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	3.77	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	6.16	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>								
Chlorite *	mg/L	0.05	0.1	0.14	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.2	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2003, part 4500-O (C)	Rayong

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

**Sampling By :** Warunyoo Chimphalee , Samart Khumphlee

**Remark :**  
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Approved by

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Chanattagorn Inthorn  
Section Head

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Life Sciences

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Technical Management

Photchanas S.

Photchanas Seeda  
Scientist (4)

เบอร์โทรศัพท์ 3-323-9-0028

Approved by

Dej Changchon

Senior Manager

เบอร์โทรศัพท์ 3-323-9-0001

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

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

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

TESTING

No.0042

Lot ID: 24121884

Date Received : Nov 06, 2024

Date Reported : Nov 14, 2024

Report Number : 3146018-1

Page 1 of 2

Sample Number	24121884-1
Sample Date	Nov 06, 2024 9:35 AM
Sample Description	Wastewater
Location	ในพื้นที่อุตสาหกรรม
Date Analysis Commenced	Nov 06, 2024
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	27	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	25	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
pH at 25 degree C	-	-	-	6.7	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.5	≤40	≤34	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	560	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, B.E.2560 (2017).  
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

**Sampling By :** Surawit Narapong วสุฒานนท์ 3-323-3-0011, Samart Khumplee วสุฒานนท์ 3-204-3-0084

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

Technical Management

Photchanas S.

Photchanas Seeda  
Scientist (4)  
วสุฒานนท์ 3-323-3-0028

Approved by

D. Changchon

Dej Changchon  
Senior Manager  
วสุฒานนท์ 3-323-3-0001

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

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

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

TESTING

No.0042

Lot ID: 24121884

Date Received : Nov 06, 2024

Date Reported : Nov 14, 2024

Report Number : 3146018-1

Page 2 of 2

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

Technical Management

Photchanas S.

Photchanas Seeda  
Scientist (4)  
วสุฒานนท์ 3-323-3-0028

Approved by

D. Changchon

Dej Changchon  
Senior Manager  
วสุฒานนท์ 3-323-3-0001

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

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## Analysis / Test Report

**Lot ID: 24132961**  
Date Received : Dec 03, 2024  
Date Reported : Dec 12, 2024  
Report Number : 3174106-1

Page 2 of 2

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Puak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

Page 1 of 1

Sample Number	241329561-1							
Sample Date	Dec 03, 2024 10:40 AM							
Sample Description	Wastewater							
Location	บ้านใหม่สามัคคี							
Date Analysis Commenced	Dec 04, 2024							
Condition of Sample	Contained in two BOD bottles and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA/USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium	mg/L	0.003	0.005	3.40	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	1.04	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	4.04	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	6.02	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing								
Chlorite	mg/L	0.05	0.1	0.23	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1995, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.9	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong

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

**Sampling By: Nagnat thamasaro - Kardbundi Kitisipayanit**

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

## Technical Management

Photchanas.

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ 7-323-3-0028

**Approved by**

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ 7-323-อ-0001

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notchana Seed  
Scientist (4)

Scientist (A)

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# ภาคผนวก ค-6

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คุณภาพน้ำผิวดิน



## Analysis / Test Report

TESTING  
No.0042  
**Lot ID: 24109332**  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Page 1 of 12

Sample Number	24109332-1
Sampled Date	Oct 03, 2024 11:40 AM
Sample Description	Surface water
Location	คลองน้ำไหลในเขตพื้นที่ 200 เมตร
Date Analysis Commenced	Oct 03, 2024
Condition of Sample	Contained in four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	mg/L	0.003	0.005	0.28	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	0.14	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	0.44	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	0.20	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.6	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	7.1	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company. This report is not reproduced except in full.

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Photchanas Seeda  
Scientist (4)

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## Analysis / Test Report

TESTING  
No.0042  
**Lot ID: 24109332**  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Page 2 of 12

Sample Number	24109332-1
Sampled Date	Oct 03, 2024 11:40 AM
Sample Description	Surface water
Location	คลองน้ำไหลในเขตพื้นที่ 200 เมตร
Date Analysis Commenced	Oct 03, 2024
Condition of Sample	Contained in four plastic bottles and 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>							
Temperature *	Degree C	-	-	31.5	n°	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	74	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	16	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

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

**Sampling By :** Warunyo Chimphalee, Samart Khumphlee

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.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Branch, DSS Accreditation No. 0009.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company. This report is not reproduced except in full.

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## Analysis / Test Report

## TESTING

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24109332  
No.0042  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Page 3 of 12

Sample Number	24109332-2				
Sampled Date	Oct 03, 2024 12:00 PM				
Sample Description	Surface water				
Location	แหล่งน้ำบริเวณพื้นที่อุตสาหกรรม 200 เมตร				
Date Analysis Commenced	Oct 03, 2024				
Condition of Sample	Contained in four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)				

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	mg/L	0.003	0.005	0.82	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	0.33	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	1.23	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	0.93	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.8	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	7.5	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (b)	Rayong

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Photchanan Seeda  
Scientist: (4)

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## Analysis / Test Report

## TESTING

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24109332  
No.0042  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Page 4 of 12

Sample Number	24109332-2				
Sampled Date	Oct 03, 2024 12:00 PM				
Sample Description	Surface water				
Location	แหล่งน้ำบริเวณพื้นที่อุตสาหกรรม 200 เมตร				
Date Analysis Commenced	Oct 03, 2024				
Condition of Sample	Contained in four plastic bottles and 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>							
Temperature *	Degree C	-	-	31.6	n <sup>1</sup>	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	174	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	61	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Sampling By :** Warunyoo Chimphalee , Samart Khumplinee

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.  
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Branch, BSS Accreditation No. 0009.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Photchanan Seeda  
Scientist: (4)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042  
Lot ID: 24109332  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Page 5 of 12

Sample Number	24109332-3
Sampled Date	Oct 03, 2024 1:50 PM
Sample Description	Surface water
Location	คลองน้ำไหลในเขตอุตสาหกรรม 200 เมตร
Date Analysis Commenced	Oct 03, 2024
Condition of Sample	Contained in four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>						
Calcium	mg/L	0.003	1.91	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.53	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	0.10	1.64	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	1.81	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok

<b>Water Testing</b>						
BOD *	mg/L	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.9	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	7.6	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

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Photchanas Seeda  
Scientist (4)

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Analysis / Test Report

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Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042  
Lot ID: 24109332  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Page 6 of 12

Sample Number	24109332-3
Sampled Date	Oct 03, 2024 1:50 PM
Sample Description	Surface water
Location	คลองน้ำไหลในเขตอุตสาหกรรม 200 เมตร
Date Analysis Commenced	Oct 03, 2024
Condition of Sample	Contained in four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>						
Temperature *	Degree C	-	31.5	n'	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	332	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

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.  
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Branch, DSS Accreditation No. 0009.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Scientist (4)

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042  
**Lot ID: 24109332**  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Page 7 of 12

Sample Number	24109332-4		
Sample Date	Oct 03, 2024	2:05 PM	
Sample Description	Surface water		
Location	คลองระพีพัฒน์ วัดศรีมหาโพธิ์ 200 เมตร		
Date Analysis Commenced	Oct 03, 2024		
Condition of Sample	Contained in four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)		

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	mg/L	0.003	0.005	0.87	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	0.30	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	0.98	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	0.75	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.0	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	7.5	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

TESTING  
No.0042  
**Lot ID: 24109332**  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Page 8 of 12

Sample Number	24109332-4		
Sample Date	Oct 03, 2024	2:05 PM	
Sample Description	Surface water		
Location	แหล่งน้ำใกล้ท่าเรืออุตสาหกรรม 200 เมตร		
Date Analysis Commenced	Oct 03, 2024		
Condition of Sample	Contained in four plastic bottles and 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>							
Temperature *	Degree C	-	-	31.0	n <sup>1</sup>	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	202	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	160	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Sampling By :** Warunyoo Chimphalee, Samart Khumphlee

Remark :

- LOD : Limit of Detection
- n<sup>1</sup> : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analysis(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Branch, OSS Accreditation No. 0009.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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TESTING  
No.0042  
**Lot ID: 24109332**  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

Page 9 of 12

Sample Number	24109332-5
Sampled Date	Oct 03, 2024 2:20 PM
Sample Description	Surface water
Location	อ่างเก็บน้ำหนองปลาไหล ทางจากท่าอากาศยานสุวรรณภูมิ 2 กม.
Date Analysis Commenced	Oct 03, 2024
Condition of Sample	Contained in four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	mg/L	0.003	0.005	0.86	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	0.28	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	1.42	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	1.07	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok

<b>Water Testing</b>							
BOD *	mg/L	-	2	2.5	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.6	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	8.1	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS Laboratory Group (Thailand) Co., Ltd. on behalf of the client. This report is not reproduced except in full.

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S: Reports\Water\AL\_Gupr (S:49PH)



## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTSS3

Page 10 of 12

Sample Number	24109332-5
Sampled Date	Oct 03, 2024 2:20 PM
Sample Description	Surface water
Location	อ่างเก็บน้ำหนองปลาไหล ทางจากท่าอากาศยานสุวรรณภูมิ 2 กม.
Date Analysis Commenced	Oct 03, 2024
Condition of Sample	Contained in four plastic bottles and 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>							
Temperature *	Degree C	-	-	32.8	n°	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	198	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 105-105 degree C *	mg/L	-	5	13	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Sampling By :** Warunyoo Chimphalee , Samart Khumplinee

Remark :  
- LOD : Limit of Detection  
- "n°" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Branch, DSS Accredited No. 0009.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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S: Reports\Water\AL\_Gupr (S:49PH)





## Analysis / Test Report

**Client :** Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GT53

**TESTING**  
No.0042  
**Lot ID: 24109332**  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Page 11 of 12

<b>Sample Number</b>	24109332-6
<b>Sampled Date</b>	Oct 03, 2024 3:10 PM
<b>Sample Description</b>	Surface water
<b>Location</b>	อ่างเก็บน้ำหนองปลาไหล จังหวัดสุพรรณบุรีกรมการ 4 นู
<b>Date Analysis Commenced</b>	Oct 03, 2024
<b>Condition of Sample</b>	Contained in four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	mg/L	0.003	0.005	0.87	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	0.28	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	0.10	1.46	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	1.11	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok

<b>Water Testing</b>							
BOD *	mg/L	-	2	3.9	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.8	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C		-	-	8.6	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

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## Analysis / Test Report

**Client :** Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong  
Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GT53

**TESTING**  
No.0042  
**Lot ID: 24109332**  
Date Received : Oct 03, 2024  
Date Reported : Oct 11, 2024  
Report Number : 3117721-1

Page 12 of 12

<b>Sample Number</b>	24109332-6
<b>Sampled Date</b>	Oct 03, 2024 3:10 PM
<b>Sample Description</b>	Surface water
<b>Location</b>	อ่างเก็บน้ำหนองปลาไหล จังหวัดสุพรรณบุรีกรมการ 4 นู
<b>Date Analysis Commenced</b>	Oct 03, 2024
<b>Condition of Sample</b>	Contained in four plastic bottles and 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>							
Temperature *	Degree C	-	-	33.4	n <sup>1</sup>	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	170	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	19	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)  
**n<sup>1</sup> :** Change from Natural condition not more than 3 degree C  
**Sampling By :** Wanunyo Chimpalee, Samart Khumplee

**Remark :**  
- LOD : Limit of Detection  
- LOR : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Branch, DSS Accreditation No. 0009.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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ระดับเสียงภายในสถานประกอบการ



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480575  
Date Received : Aug 15, 2024  
Date Reported : Aug 19, 2024  
Report Number: 3086359-1

Page 1 of 1

Sample Number	2480575-1
Parameter	Noise (Leq 8 hrs.)
Location	เครื่อง Cooling Tower
Measurement Date	Aug 13, 2024
Measurement by	Nattakarn Vornginyoo
Time	Leq (dB(A)) Lmax (dB(A)) L90 (dB(A))
09:32 AM - 10:32 AM	77.1 80.3 76.9
10:32 AM - 11:32 AM	77.1 80.1 76.9
11:32 AM - 12:32 PM	77.1 77.5 76.9
12:32 PM - 01:32 PM	77.0 77.8 76.8
01:32 PM - 02:32 PM	76.9 77.3 76.7
02:32 PM - 03:32 PM	76.8 77.2 76.4
03:32 PM - 04:32 PM	76.6 77.0 76.3
04:32 PM - 05:32 PM	76.5 77.0 76.3
Leq Average 8 hrs. (dB(A))	76.9
Lmax (dB(A))	80.3
Standard (dB(A))	85
Reference Method : ISO1996-1 and 1996-2	
Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd. ประเภทการตรวจวัดผลกระทบสิ่งแวดล้อม ตามประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อมในราชกิจจานุเบกษา	

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Chonticha Subongkloeh  
Scientist (3)

Approved by

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Supot Salamteah  
Section Head

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480575  
Date Received : Aug 15, 2024  
Date Reported : Aug 19, 2024  
Report Number: 3086370-1

Page 1 of 1

Sample Number	2480575-2
Parameter	Noise (Leq 8 hrs.)
Location	เครื่อง Boiler Feed Pump
Measurement Date	Aug 13, 2024
Measurement by	Nattakarn Vornginyoo
Time	Leq (dB(A)) Lmax (dB(A)) L90 (dB(A))
09:20 AM - 10:20 AM	82.1 83.7 81.9
10:20 AM - 11:20 AM	82.2 85.6 81.9
11:20 AM - 12:20 PM	82.0 84.1 81.7
12:20 PM - 01:20 PM	81.8 84.0 81.6
01:20 PM - 02:20 PM	82.2 83.8 82.0
02:20 PM - 03:20 PM	82.0 84.6 81.8
03:20 PM - 04:20 PM	82.0 84.0 81.8
04:20 PM - 05:20 PM	82.0 82.8 81.8
Leq Average 8 hrs. (dB(A))	82.0
Lmax (dB(A))	85.6
Standard (dB(A))	85
Reference Method : ISO1996-1 and 1996-2	
Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd. ประเภทการตรวจวัดผลกระทบสิ่งแวดล้อม ตามประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อมในราชกิจจานุเบกษา	

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Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480575  
Date Received : Aug 15, 2024  
Date Reported : Aug 19, 2024  
Report Number: 3086371-1

Page 1 of 1

Sample Number	2480575-3
Parameter	Noise (Leq 8 hrs.)
Location	พื้นที่ Gas Metering
Measurement Date	Aug 13, 2024
Measurement by	Nattakarn Vonginyoo
Time	
09:28 AM - 10:28 AM	64.1
10:28 AM - 11:28 AM	64.3
11:28 AM - 12:28 PM	63.4
12:28 PM - 01:28 PM	63.2
01:28 PM - 02:28 PM	64.3
02:28 PM - 03:28 PM	64.1
03:28 PM - 04:28 PM	64.2
04:28 PM - 05:28 PM	64.2
Leq Average 8 hrs. (dB(A))	64.0
Lmax (dB(A))	77.4
Standard (dB(A))	85
Reference Method	: ISO1996-1 and 1996-2
Standard	: Environmental Impact Assessment Report of Gulf TSS Co., Ltd. ใช้มาตรฐานการประเมินผลกระทบสิ่งแวดล้อมของโครงการ ตามมาตรฐานการประเมินผลกระทบสิ่งแวดล้อมในรายงาน พ.ศ.๒๕๖๖

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Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480575  
Date Received : Aug 15, 2024  
Date Reported : Aug 19, 2024  
Report Number: 3086372-1

Page 1 of 1

Sample Number	2480575-4
Parameter	Noise (Leq 8 hrs.)
Location	พื้นที่ Gas Turbine Accessories System (สนามหญ้าทาง GTG 11 และ GTG12)
Measurement Date	Aug 13, 2024
Measurement by	Nattakarn Vonginyoo
Time	
09:15 AM - 10:15 AM	76.4
10:15 AM - 11:15 AM	76.3
11:15 AM - 12:15 PM	76.0
12:15 PM - 01:15 PM	75.5
01:15 PM - 02:15 PM	76.2
02:15 PM - 03:15 PM	76.4
03:15 PM - 04:15 PM	76.4
04:15 PM - 05:15 PM	76.3
Leq Average 8 hrs. (dB(A))	76.2
Lmax (dB(A))	82.9
Standard (dB(A))	85
Reference Method	: ISO1996-1 and 1996-2
Standard	: Environmental Impact Assessment Report of Gulf TSS Co., Ltd. ใช้มาตรฐานการประเมินผลกระทบสิ่งแวดล้อมของโครงการ ตามมาตรฐานการประเมินผลกระทบสิ่งแวดล้อมในรายงาน พ.ศ.๒๕๖๖

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Chonticha Subongkloch  
Scientist (3)

Approved by

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Supot Salameh  
Section Head

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Date Received : Aug 15, 2024  
Date Reported : Aug 19, 2024  
Report Number: 3086373-1

Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480575

Page 1 of 1

Sample Number	2480575-5			
Parameter	Noise (Leq 8 hrs.)			
Location	131m Steam Turbine Generator			
Measurement Date	Aug 13, 2024			
Measurement by	Nattakarn Vonginyoo			
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
09:24 AM - 10:24 AM	77.5	82.1	77.3	
10:24 AM - 11:24 AM	77.6	84.4	77.3	
11:24 AM - 12:24 PM	77.6	83.3	77.4	
12:24 PM - 01:24 PM	77.4	83.1	77.1	
01:24 PM - 02:24 PM	77.6	81.8	77.4	
02:24 PM - 03:24 PM	77.4	83.3	77.2	
03:24 PM - 04:24 PM	77.5	82.3	77.4	
04:24 PM - 05:24 PM	77.6	78.3	77.4	

Technical Management

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Date Received : Aug 15, 2024  
Date Reported : Aug 19, 2024  
Report Number: 3086374-1

Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480575

Page 1 of 1

Sample Number	2480575-6			
Parameter	Noise (Leq 8 hrs.)			
Location	บริเวณ Steam Turbine Lube Oil Skid			
Measurement Date	Aug 13, 2024			
Measurement by	Nattakarn Vonginyoo			
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
09:27 AM - 10:27 AM	74.9	83.2	74.5	
10:27 AM - 11:27 AM	75.0	78.7	74.5	
11:27 AM - 12:27 PM	73.1	76.9	71.6	
12:27 PM - 01:27 PM	72.2	75.9	71.1	
01:27 PM - 02:27 PM	72.8	75.9	71.4	
02:27 PM - 03:27 PM	72.7	77.3	71.2	
03:27 PM - 04:27 PM	72.7	76.3	71.4	
04:27 PM - 05:27 PM	72.8	75.5	71.4	

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Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

**Lot ID: 24121850**  
Date Received : Nov 21, 2024  
Date Reported : Nov 27, 2024  
Report Number: 3178090-1

Page 1 of 1

Sample Number	24121850-1
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Cooling Tower
Measurement Date	Nov 20, 2024
Measurement by	Chanon Booncheun
Time	
Lmax (dB(A))	92.4
Leq (dB(A))	77.8
L90 (dB(A))	76.4
08:40 AM - 09:40 AM	
09:40 AM - 10:40 AM	
10:40 AM - 11:40 AM	
11:40 AM - 12:40 PM	
12:40 PM - 01:40 PM	
01:40 PM - 02:40 PM	
02:40 PM - 03:40 PM	
03:40 PM - 04:40 PM	
Leq Average 8 hrs. (dB(A))	79.3
Lmax (dB(A))	92.4
Standard (dB(A))	85
Reference Method : ISO1996-1 and 1996-2	
Standard : Environmental Impact Assessment Report of Gulf TSS Co., Ltd.	
เป็นเอกสารข้อมูลสาธารณะ (Public Information) ไม่สามารถเปิดเผยแก่บุคคลอื่นโดยไม่ได้รับอนุญาต	
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Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

**Lot ID: 24121850**  
Date Received : Nov 21, 2024  
Date Reported : Nov 27, 2024  
Report Number: 3178091-1

Page 1 of 1

Sample Number	24121850-2
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Boiler Feed Pump
Measurement Date	Nov 20, 2024
Measurement by	Chanon Booncheun
Time	
Lmax (dB(A))	89.4
Leq (dB(A))	82.8
L90 (dB(A))	82.5
08:27 AM - 09:27 AM	
09:27 AM - 10:27 AM	
10:27 AM - 11:27 AM	
11:27 AM - 12:27 PM	
12:27 PM - 01:27 PM	
01:27 PM - 02:27 PM	
02:27 PM - 03:27 PM	
03:27 PM - 04:27 PM	
Leq Average 8 hrs. (dB(A))	82.7
Lmax (dB(A))	90.5
Standard (dB(A))	140
Reference Method : ISO1996-1 and 1996-2	
Standard : Environmental Impact Assessment Report of Gulf TSS Co., Ltd.	
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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.

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

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 24121850

Date Received : Nov 21, 2024

Date Reported : Nov 27, 2024

Report Number: 3178092-1

Page 1 of 1

Sample Number	24121850-3
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Gas Metering
Measurement Date	Nov 20, 2024
Measurement by	Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:48 AM - 09:48 AM	65.0	74.2	64.2
09:48 AM - 10:48 AM	64.9	72.2	64.3
10:48 AM - 11:48 AM	65.5	69.5	64.5
11:48 AM - 12:48 PM	64.8	68.3	64.2
12:48 PM - 01:48 PM	64.5	68.7	64.0
01:48 PM - 02:48 PM	64.4	69.5	63.8
02:48 PM - 03:48 PM	64.0	69.1	63.5
03:48 PM - 04:48 PM	64.3	68.5	63.8

Leq Average 8 hrs. (dB(A))	64.7
Lmax (dB(A))	74.2

Standard (dB(A))	85
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Reference Method : ISO1996-1 and 1996-2

Standard : Environmental Impact Assessment Report of Gulf TSS Co., Ltd.

ประเภทการตรวจวัด : เสียงจากเครื่องจักรกลภายในอาคาร

หมายเหตุ : ผลการตรวจวัดเสียงจากเครื่องจักรกลภายในอาคาร

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P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 24121850

Date Received : Nov 21, 2024

Date Reported : Nov 27, 2024

Report Number: 3178093-1

Page 1 of 1

Sample Number	24121850-4
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Gas Turbine Accessories System (ห้องเครื่องกังหัน GTG 11 และ GTG12)
Measurement Date	Nov 20, 2024
Measurement by	Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:34 AM - 09:34 AM	79.4	81.2	77.6
09:34 AM - 10:34 AM	77.1	78.9	76.6
10:34 AM - 11:34 AM	77.3	79.4	76.6
11:34 AM - 12:34 PM	77.6	80.4	76.6
12:34 PM - 01:34 PM	77.1	80.1	76.2
01:34 PM - 02:34 PM	76.4	78.2	76.0
02:34 PM - 03:34 PM	76.6	78.7	76.1
03:34 PM - 04:34 PM	76.5	78.6	76.0

Leq Average 8 hrs. (dB(A))	77.4
Lmax (dB(A))	81.2

Standard (dB(A))	85
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Reference Method : ISO1996-1 and 1996-2

Standard : Environmental Impact Assessment Report of Gulf TSS Co., Ltd.

ประเภทการตรวจวัด : เสียงจากเครื่องจักรกลภายในอาคาร

หมายเหตุ : ผลการตรวจวัดเสียงจากเครื่องจักรกลภายในอาคาร

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Analysis / Test Report

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P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

**Lot ID: 24121850**  
Date Received : Nov 21, 2024  
Date Reported : Nov 27, 2024  
Report Number: 3178094-1

Page 1 of 1

Sample Number	24121850-5			
Parameter	Noise (Leq 8 hrs.)			
Location	พื้นที่ Steam Turbine Generator			
Measurement Date	Nov 20, 2024			
Measurement by	Chanon Booncheun			
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
08:36 AM - 09:36 AM	77.3	89.1	76.7	
09:36 AM - 10:36 AM	77.0	81.4	76.7	
10:36 AM - 11:36 AM	77.0	83.4	76.6	
11:36 AM - 12:36 PM	78.0	86.1	76.7	
12:36 PM - 01:36 PM	77.3	86.1	76.6	
01:36 PM - 02:36 PM	77.1	78.8	76.8	
02:36 PM - 03:36 PM	77.3	78.8	76.9	
03:36 PM - 04:36 PM	77.3	78.3	76.9	

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Analysis / Test Report

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P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

**Lot ID: 24121850**  
Date Received : Nov 21, 2024  
Date Reported : Nov 27, 2024  
Report Number: 3178095-1

Page 1 of 1

Sample Number	24121850-6		
Parameter	Noise (Leq 8 hrs.)		
Location	Upstream Steam Turbine Lube Oil Skid		
Measurement Date	Nov 20, 2024		
Measurement by	Chanon Booncheun		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:38 AM - 09:38 AM	74.9	91.3	74.4
09:38 AM - 10:38 AM	74.5	77.8	74.0
10:38 AM - 11:38 AM	74.2	77.3	73.7
11:38 AM - 12:38 PM	73.6	74.8	72.9
12:38 PM - 01:38 PM	74.5	76.7	73.8
01:38 PM - 02:38 PM	74.3	75.5	73.6
02:38 PM - 03:38 PM	74.2	77.5	73.7
03:38 PM - 04:38 PM	74.5	76.5	73.8

ผู้จัดทำรายงาน/การประเมินผลกระทบสิ่งแวดล้อม  
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,  
Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480578  
Date Received : Aug 15, 2024  
Date Reported : Aug 20, 2024  
Report Number: 3055188-1

Page 1 of 4

Sample Number	2480578-1
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Aug 13, 2024
Measurement by	Nattakarn Vonginyoo
Location	บริเวณโรงงาน 1 หลัง (ด้าน-ตะวันออก หลังโรงงาน : - แล่น :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Condenser Exhaust Unit	120	30.3	27.7	37.5	34.0
Average (WBGT)		30.3			
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

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Analysis / Test Report

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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,  
Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480578  
Date Received : Aug 15, 2024  
Date Reported : Aug 20, 2024  
Report Number: 3055188-1

Page 2 of 4

Sample Number	2480578-2
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Aug 13, 2024
Measurement by	Nattakarn Vonginyoo
Location	บริเวณโรงงาน 1 หลัง (ด้าน-ตะวันออก หลังโรงงาน : - แล่น :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Condenser Exhaust Unit	120	31.0	28.7	37.1	34.9
Average (WBGT)		31.0			
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

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## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
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Rayong Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTS3

**Lot ID: 2480578**  
Date Received : Aug 15, 2024  
Date Reported : Aug 20, 2024  
Report Number: 3055188-1

Page 3 of 4

<b>Sample Number</b>	2480578-3
<b>Parameter</b>	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
<b>Measurement Date</b>	Aug 13, 2024
<b>Measurement by</b>	Nattakarn Vonginyoo
<b>Location</b>	บริเวณด้าน 1 หลัง (ด้านหลังอาคารสำนักงาน : - แทน :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Generator	120	29.3	27.3	34.3	33.1
Average (WBGT)		29.3			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

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

### Technical Management

*Supt S.*  
Supot Salameh  
Section Head

### Approved by

*Wichan Choonharat*  
Wichan Choonharat  
Assistant Manager



## Analysis / Test Report

**Client :** Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,  
Rayong Thailand 21140  
**P/O :** 4210402620  
**Project Name :** Monitoring EIA  
**Project Location :** GTS3

**Lot ID: 2480578**  
Date Received : Aug 15, 2024  
Date Reported : Aug 20, 2024  
Report Number: 3055188-1

Page 4 of 4

<b>Sample Number</b>	2480578-4
<b>Parameter</b>	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
<b>Measurement Date</b>	Aug 13, 2024
<b>Measurement by</b>	Nattakarn Vonginyoo
<b>Location</b>	บริเวณด้าน 1 หลัง (ด้านหลังอาคารสำนักงาน : - แทน :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Gas Turbine	120	28.9	27.0	33.4	32.8
Average (WBGT)		28.9			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

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

### Technical Management

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Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121856

Date Received : Nov 21, 2024  
Date Reported : Nov 27, 2024  
Report Number: 3145947-1

Page 1 of 4

Sample Number	24121856-1
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Nov 20, 2024
Measurement by	Chanon Booncheun
Location	บริเวณด้านหน้าอาคาร 1 ชั้น 1 (หน้าประตูทางออกฉุกเฉิน) : - นอก :-

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Condenser Exhaust Unit	120	30.5	27.3	38.9	35.7
Average (WBGT)		30.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

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

### Technical Management

Supt S.

Supot Salameh  
Section Head

### Approved by

Wichan Choonharat

Wichan Choonharat  
Assistant Manager

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S. Vapornakul, Air Heat ref (4.11PM)



## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,  
Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121856

Date Received : Nov 21, 2024  
Date Reported : Nov 27, 2024  
Report Number: 3145947-1

Page 2 of 4

Sample Number	24121856-2
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Nov 20, 2024
Measurement by	Chanon Booncheun
Location	บริเวณด้านหน้าอาคาร 1 ชั้น 1 (หน้าประตูทางออกฉุกเฉิน) : - นอก :-

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Condenser Exhaust Unit	120	31.1	27.6	39.2	39.0
Average (WBGT)		31.1			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

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

### Technical Management

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Section Head

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Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,  
Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121856  
Date Received : Nov 21, 2024  
Date Reported : Nov 27, 2024  
Report Number: 3145947-1

Page 3 of 4

Sample Number	24121856-3
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Nov 20, 2024
Measurement by	Chanon Booncheun
Location	บริเวณด้าน 1 หลัง (ด้าน-บนอาคาร สูงถึงด้าน : - บนต : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Generator	120	30.5	27.2	38.1	37.4
Average (WBGT)		30.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

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Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,  
Rayong Thailand 21140  
P/O : 4210402620  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121856  
Date Received : Nov 21, 2024  
Date Reported : Nov 27, 2024  
Report Number: 3145947-1

Page 4 of 4

Sample Number	24121856-4
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Nov 20, 2024
Measurement by	Chanon Booncheun
Location	บริเวณด้าน 1 หลัง (ด้าน-บนอาคาร สูงถึงด้าน : - บนต : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Gas Turbine	120	30.3	27.2	37.8	37.4
Average (WBGT)		30.3			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

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# ภาคผนวก ค-9

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

**Lot ID: 2480582 (1)**  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (1)-1

Page 1 of 2

GTS3							GTS3		
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot	Average	Guideline Limit Spot/Min	Comment
1	Spot : Administration Building : 1st Floor : 1st Admin. 1	2480582 (1)-1	13-Aug-24	Day time	1	894	-	300-400	Pass
2	Spot : Administration Building : 1st Floor : 1st Admin. 1	2480582 (1)-2	13-Aug-24	Day time	1	436	-	400-500	Pass
3	Spot : Administration Building : 1st Floor : 1st Admin. 2	2480582 (1)-3	13-Aug-24	Day time	1	602	-	400-500	Pass
4	Spot : Administration Building : 1st Floor : 1st Operation Manager	2480582 (1)-4	13-Aug-24	Day time	1	501	-	400-500	Pass
5	Spot : Administration Building : 1st Floor : 1st EHS	2480582 (1)-5	13-Aug-24	Day time	1	646	-	400-500	Pass
6	Spot : Administration Building : 1st Floor : 1st EHS Manager	2480582 (1)-6	13-Aug-24	Day time	1	825	-	400-500	Pass
7	Spot : Administration Building : 1st Floor : 1st Admin. Manager	2480582 (1)-7	13-Aug-24	Day time	1	596	-	400-500	Pass
8	Spot : Administration Building : 1st Floor : 1st Plant Manager	2480582 (1)-8	13-Aug-24	Day time	1	496	-	400-500	Pass
9	Spot : Administration Building : 1st Floor : 1st IT	2480582 (1)-9	13-Aug-24	Day time	1	417	-	400-500	Pass
10	Spot : Administration Building : 1st Floor : 1st Admin. 1	2480582 (1)-10	13-Aug-24	Day time	1	411	-	400-500	Pass
11	Spot : Administration Building : 1st Floor : 1st Admin. 2	2480582 (1)-11	13-Aug-24	Day time	1	649	-	400-500	Pass
12	Area : Administration Building : 1st Floor : 1st Admin	2480582 (1)-12	13-Aug-24	Day time	1	696	713	50 100	Pass
		2480582 (1)-13	13-Aug-24	Day time	2	794			
		2480582 (1)-14	13-Aug-24	Day time	3	757			
		2480582 (1)-15	13-Aug-24	Day time	4	712			
		2480582 (1)-16	13-Aug-24	Day time	5	397			
		2480582 (1)-17	13-Aug-24	Day time	6	923			
13	Area : Administration Building : 1st Floor : 1st Admin	2480582 (1)-18	13-Aug-24	Day time	1	517	688	100 200	Pass
		2480582 (1)-19	13-Aug-24	Day time	2	859			

Technical Management : *Supat S.* Supot Salamteh Section Head

Approved by : *Wichan Choonharat* Wichan Choonharat Assistant Manager

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## Analysis / Test Report

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P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

**Lot ID: 2480582 (1)**  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (1)-1

Page 2 of 2

GTS3							GTS3		
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot	Average	Guideline Limit Spot/Min	Comment
15	Area : Administration Building : 1st Floor : 1st Admin. 1	2480582 (1)-20	13-Aug-24	Day time	1	355	440	150 300	Pass
		2480582 (1)-21	13-Aug-24	Day time	2	383			
		2480582 (1)-22	13-Aug-24	Day time	3	411			
		2480582 (1)-23	13-Aug-24	Day time	4	393			
		2480582 (1)-24	13-Aug-24	Day time	5	375			
		2480582 (1)-25	13-Aug-24	Day time	6	325			
		2480582 (1)-26	13-Aug-24	Day time	7	430			
		2480582 (1)-27	13-Aug-24	Day time	8	469			
		2480582 (1)-28	13-Aug-24	Day time	9	465			
		2480582 (1)-29	13-Aug-24	Day time	10	446			
		2480582 (1)-30	13-Aug-24	Day time	11	397			
		2480582 (1)-31	13-Aug-24	Day time	12	827			
16	Area : Administration Building : 1st Floor : 1st Admin	2480582 (1)-32	13-Aug-24	Day time	1	662	476	50 100	Pass
		2480582 (1)-33	13-Aug-24	Day time	2	513			
		2480582 (1)-34	13-Aug-24	Day time	3	369			
		2480582 (1)-35	13-Aug-24	Day time	4	362			
17	Area : Administration Building : 1st Floor : 1st Admin	2480582 (1)-36	13-Aug-24	Day time	1	843	785	150 300	Pass
		2480582 (1)-37	13-Aug-24	Day time	2	880			
		2480582 (1)-38	13-Aug-24	Day time	3	501			
		2480582 (1)-39	13-Aug-24	Day time	4	917			

Measurement by : Nattakorn Vongjinyoo

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

Technical Management : *Supat S.* Supot Salamteh Section Head

Approved by : *Wichan Choonharat* Wichan Choonharat Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (2)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (2)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Comment
						Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min Average	
1	Area : CCR : Control Building : 1st Floor : Switchgear Room	2480582 (2)-1	13-Aug-24	Day time	1	570	450	100	Pass
		2480582 (2)-2	13-Aug-24	Day time	2	658			
		2480582 (2)-3	13-Aug-24	Day time	3	260			
		2480582 (2)-4	13-Aug-24	Day time	4	488			
		2480582 (2)-5	13-Aug-24	Day time	5	418			
		2480582 (2)-6	13-Aug-24	Day time	6	260			
		2480582 (2)-7	13-Aug-24	Day time	7	630			
		2480582 (2)-8	13-Aug-24	Day time	8	359			
		2480582 (2)-9	13-Aug-24	Day time	9	565			
		2480582 (2)-10	13-Aug-24	Day time	10	798			
		2480582 (2)-11	13-Aug-24	Day time	11	489			
		2480582 (2)-12	13-Aug-24	Day time	12	290			
		2480582 (2)-13	13-Aug-24	Day time	13	514			
		2480582 (2)-14	13-Aug-24	Day time	14	215			
		2480582 (2)-15	13-Aug-24	Day time	15	739			
		2480582 (2)-16	13-Aug-24	Day time	16	513			
		2480582 (2)-17	13-Aug-24	Day time	17	421			
		2480582 (2)-18	13-Aug-24	Day time	18	221			
		2480582 (2)-19	13-Aug-24	Night time	1	591	518	100	200
		2480582 (2)-20	13-Aug-24	Night time	2	820			
		2480582 (2)-21	13-Aug-24	Night time	3	250			
		2480582 (2)-22	13-Aug-24	Night time	4	741			
		2480582 (2)-23	13-Aug-24	Night time	5	410			
		2480582 (2)-24	13-Aug-24	Night time	6	652			
		2480582 (2)-25	13-Aug-24	Night time	7	245			
		2480582 (2)-26	13-Aug-24	Night time	8	1,044			
		2480582 (2)-27	13-Aug-24	Night time	9	734			
		2480582 (2)-28	13-Aug-24	Night time	10	440			
		2480582 (2)-29	13-Aug-24	Night time	11	238			
		2480582 (2)-30	13-Aug-24	Night time	12	621			
		2480582 (2)-31	13-Aug-24	Night time	13	330			
		2480582 (2)-32	13-Aug-24	Night time	14	674			
		2480582 (2)-33	13-Aug-24	Night time	15	238			
		2480582 (2)-34	13-Aug-24	Night time	16	733			
		2480582 (2)-35	13-Aug-24	Night time	17	642			
		2480582 (2)-36	13-Aug-24	Night time	18	407			

Technical Management  
Supot Salameh  
Section Head

Approved by  
Nichan Chonharat  
Wichan Chonharat  
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (2)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (2)-1

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Comment
						Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min Average	
2	Area : CCR : Control Building : 1st Floor : Warehouse	2480582 (2)-37	13-Aug-24	Day time	1	795	834	50	100
		2480582 (2)-38	13-Aug-24	Day time	2	872			Pass
		2480582 (2)-39	13-Aug-24	Night time	1	711	713	50	100
		2480582 (2)-40	13-Aug-24	Night time	2	715			Pass

Measurement by : Naitakam Vonginyoo

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

Technical Management  
Supot S  
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Wichan Chonharat  
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P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (3)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (3)-1

Page 1 of 2

GTS3						
Lay out No.	Location	Reference Number	Date	Time	No.	Comment
1	Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.1	2480582 (3)-1 2480582 (3)-2	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
2	Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.2	2480582 (3)-3 2480582 (3)-4	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
3	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.1	2480582 (3)-5 2480582 (3)-6	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
4	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.2	2480582 (3)-7 2480582 (3)-8	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
5	Spot : CCR : Control Building : 3rd Floor : DCS	2480582 (3)-9 2480582 (3)-10	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
6	Spot : CCR : Control Building : 3rd Floor : ฝ้าฝุ่นลานภายใน	2480582 (3)-11 2480582 (3)-12	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
7	Spot : CCR : Control Building : 3rd Floor : ฝ้าฝุ่นลานภายในและฝ้าฝุ่นภายนอก	2480582 (3)-13 2480582 (3)-14	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
8	Spot : CCR : Control Building : 3rd Floor : ฝ้า Daytime Operation	2480582 (3)-15	13-Aug-24	Day time	1	Pass
9	Spot : CCR : Control Building : 3rd Floor : ฝ้า Operation Manager	2480582 (3)-16	13-Aug-24	Day time	1	Pass
10	Spot : CCR : Control Building : 3rd Floor : ฝ้า Permit	2480582 (3)-17 2480582 (3)-18	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
11	Spot : CCR : Control Building : 3rd Floor : ฝ้า Shift Leader Daytime	2480582 (3)-19 2480582 (3)-20	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
12	Spot : CCR : Control Building : 3rd Floor : ฝ้า Shift Leader GTS3	2480582 (3)-21 2480582 (3)-22	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass
13	Spot : CCR : Control Building : 3rd Floor : ฝ้า Shift Leader GTS4	2480582 (3)-23 2480582 (3)-24	13-Aug-24 13-Aug-24	Day time Night time	1 1	Pass Pass

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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (3)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (3)-1

Page 2 of 2

GTS3						
Lay out No.	Location	Reference Number	Date	Time	No.	Comment
14	Area : CCR : Control Building : 3rd Floor : ฝ้าฝุ่น	2480582 (3)-25 2480582 (3)-26 2480582 (3)-27 2480582 (3)-28 2480582 (3)-29 2480582 (3)-30 2480582 (3)-31 2480582 (3)-32 2480582 (3)-33 2480582 (3)-34	13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24	Day time Day time Day time Day time Day time Night time Night time Night time Night time Night time	1 2 3 4 5 1 2 3 4 5	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
15	Area : CCR : Control Building : 3rd Floor : ฝ้าฝุ่นภายใน	2480582 (3)-35 2480582 (3)-36 2480582 (3)-37 2480582 (3)-38	13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24	Day time Day time Night time Night time	1 2 1 2	Pass Pass Pass Pass

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

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Analysis / Test Report

Client : Gulf T53 Co., Ltd.  
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P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (4)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (4)-1

Page 1 of 2

GTS3									
Lay out No.	Location	Reference Number	Date	Time	No.	Spot	Illuminance (Lux)	Spot/Min	Average
1	Area : Electrical Building : ชั้น 2 : Battery Room	2480582 (4)-1	13-Aug-24	Day time	1	413	418	100	200
		2480582 (4)-2	13-Aug-24	Day time	2	424			
		2480582 (4)-3	13-Aug-24	Night time	1	301	361	100	200
		2480582 (4)-4	13-Aug-24	Night time	2	421			
		2480582 (4)-5	13-Aug-24	Day time	1	1,201	1292	100	200
2	Area : Electrical Building : ชั้น 2 : Electrical Room	2480582 (4)-6	13-Aug-24	Day time	2	746			
		2480582 (4)-7	13-Aug-24	Day time	3	1,282			
		2480582 (4)-8	13-Aug-24	Day time	4	730			
		2480582 (4)-9	13-Aug-24	Day time	5	690			
		2480582 (4)-10	13-Aug-24	Day time	6	1,102			
		2480582 (4)-11	13-Aug-24	Day time	7	1,818			
		2480582 (4)-12	13-Aug-24	Day time	8	1,696			
		2480582 (4)-13	13-Aug-24	Day time	9	941			
		2480582 (4)-14	13-Aug-24	Day time	10	541			
		2480582 (4)-15	13-Aug-24	Day time	11	779			
		2480582 (4)-16	13-Aug-24	Day time	12	1,849			
		2480582 (4)-17	13-Aug-24	Day time	13	1,382			
		2480582 (4)-18	13-Aug-24	Day time	14	2,150			
		2480582 (4)-19	13-Aug-24	Day time	15	1,590			
		2480582 (4)-20	13-Aug-24	Day time	16	979			
		2480582 (4)-21	13-Aug-24	Day time	17	1,683			
		2480582 (4)-22	13-Aug-24	Day time	18	769			
		2480582 (4)-23	13-Aug-24	Night time	1	341	439	100	200
		2480582 (4)-24	13-Aug-24	Night time	2	802			
		2480582 (4)-25	13-Aug-24	Night time	3	271			
		2480582 (4)-26	13-Aug-24	Night time	4	362			
		2480582 (4)-27	13-Aug-24	Night time	5	516			
		2480582 (4)-28	13-Aug-24	Night time	6	466			
		2480582 (4)-29	13-Aug-24	Night time	7	688			
		2480582 (4)-30	13-Aug-24	Night time	8	422			
		2480582 (4)-31	13-Aug-24	Night time	9	766			
		2480582 (4)-32	13-Aug-24	Night time	10	431			
		2480582 (4)-33	13-Aug-24	Night time	11	730			
		2480582 (4)-34	13-Aug-24	Night time	12	289			
		2480582 (4)-35	13-Aug-24	Night time	13	578			
		2480582 (4)-36	13-Aug-24	Night time	14	364			
		2480582 (4)-37	13-Aug-24	Night time	15	309			
		2480582 (4)-38	13-Aug-24	Night time	16	657			

Technical Management  
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Section Head

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Wichan Choonharat  
Assistant Manager

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Analysis / Test Report

Client : Gulf T53 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Phrak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (4)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (4)-1

Page 2 of 2

GTS3									
Lay out No.	Location	Reference Number	Date	Time	No.	Spot	Illuminance (Lux)	Spot/Min	Average
2	Area : Electrical Building : ชั้น 2 : Electrical Room	2480582 (4)-39	13-Aug-24	Night time	17	222			
		2480582 (4)-40	13-Aug-24	Night time	18	211			
3	Area : Electrical Building : ชั้น 1 : ทางเดินบันได	2480582 (4)-41	13-Aug-24	Day time	1	871	846	50	100
		2480582 (4)-42	13-Aug-24	Day time	2	820			
		2480582 (4)-43	13-Aug-24	Night time	1	101	128	50	100
		2480582 (4)-44	13-Aug-24	Night time	2	155			
4	Area : Electrical Building : ชั้น 2 : ทางเดินบันได	2480582 (4)-45	13-Aug-24	Day time	1	209	166	50	100
		2480582 (4)-46	13-Aug-24	Day time	2	163			
		2480582 (4)-47	13-Aug-24	Night time	1	245	195	50	100
		2480582 (4)-48	13-Aug-24	Night time	2	145			

Measurement by : Nattakam Vongnyoo  
Guideline : Notification 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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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluek Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480582 (5)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (5)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3		Illuminance (Lux)	Guideline Limit		Comment
						Spot	Average		Spot/Min	Average	
1	Spot : Electrical Building : ชั้น 3 : Switchgear	2480582 (5)-1	13-Aug-24	Day time	1	650	-	-	300-400	-	Pass
		2480582 (5)-2	13-Aug-24	Night time	1	657	-	-	300-400	-	Pass
2	Area : Electrical Building : ชั้น 3 : ทางเดินไฟฟ้า	2480582 (5)-3	13-Aug-24	Day time	1	182	167	50	100		Pass
		2480582 (5)-4	13-Aug-24	Day time	2	152					
		2480582 (5)-5	13-Aug-24	Night time	1	167	150	50	100		Pass
		2480582 (5)-6	13-Aug-24	Night time	2	134					

Measurement by : Nattakam Vongnyoo  
Guideline : Notification of Department of Labour Protection and Welfare, 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 TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluek Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480582 (6)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (6)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3		Illuminance (Lux)	Spot/Min	Guideline Limit	Comments
						Spot	Average				
1	Area : Switchyard Control Building Plan : GTS3 : Battery Room	2480582 (6)-1	13-Aug-24	Day time	1	241	234	100	200	Pass	
		2480582 (6)-2	13-Aug-24	Day time	2	228					
		2480582 (6)-3	13-Aug-24	Night time	1	201	222	100	200	Pass	
		2480582 (6)-4	13-Aug-24	Night time	2	242					
2	Area : Switchyard Control Building Plan : GTS3 : Substation GTS3	2480582 (6)-5	13-Aug-24	Day time	1	472	518	100	200	Pass	
		2480582 (6)-6	13-Aug-24	Day time	2	381					
		2480582 (6)-7	13-Aug-24	Day time	3	536					
		2480582 (6)-8	13-Aug-24	Day time	4	681					
		2480582 (6)-9	13-Aug-24	Night time	1	390	408	100	200	Pass	
		2480582 (6)-10	13-Aug-24	Night time	2	374					
		2480582 (6)-11	13-Aug-24	Night time	3	504					
		2480582 (6)-12	13-Aug-24	Night time	4	362					
3	Spot : Switchyard Control Building Plan : GTS3 : Switchgear	2480582 (6)-13	13-Aug-24	Day time	1	360	-	300-400	-	Pass	
		2480582 (6)-14	13-Aug-24	Night time	1	343	-	300-400	-	Pass	
4	Area : Switchyard Control Building Plan : GTS3 : Switchyard Control Room	2480582 (6)-15	13-Aug-24	Day time	1	314	541	100	200	Pass	
		2480582 (6)-16	13-Aug-24	Day time	2	496					
		2480582 (6)-17	13-Aug-24	Day time	3	590					
		2480582 (6)-18	13-Aug-24	Day time	4	764					
		2480582 (6)-19	13-Aug-24	Night time	1	339	426	100	200	Pass	
		2480582 (6)-20	13-Aug-24	Night time	2	504					
		2480582 (6)-21	13-Aug-24	Night time	3	482					
		2480582 (6)-22	13-Aug-24	Night time	4	377					
5	Area : Switchyard Control Building Plan : GTS4 : Battery Room	2480582 (6)-23	13-Aug-24	Day time	1	271	297	100	200	Pass	
		2480582 (6)-24	13-Aug-24	Day time	2	323					
		2480582 (6)-25	13-Aug-24	Night time	1	333	345	100	200	Pass	
		2480582 (6)-26	13-Aug-24	Night time	2	357					
6	Area : Switchyard Control Building Plan : GTS4 : Substation GTS4	2480582 (6)-27	13-Aug-24	Day time	1	353	500	100	200	Pass	
		2480582 (6)-28	13-Aug-24	Day time	2	416					
		2480582 (6)-29	13-Aug-24	Day time	3	655					
		2480582 (6)-30	13-Aug-24	Day time	4	575					
		2480582 (6)-31	13-Aug-24	Night time	1	339	463	100	200	Pass	
		2480582 (6)-32	13-Aug-24	Night time	2	375					
		2480582 (6)-33	13-Aug-24	Night time	3	573					
		2480582 (6)-34	13-Aug-24	Night time	4	566					

Technical Management  
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (6)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (6)-1

Page 2 of 2

Lay out No.	Location	Reference Number	GTS3		No.	Time	Date	Illuminance (Lux)		Spot	Guideline Limit		Comment
			Average	Spot/Min				Average	Spot/Min		Average	Spot/Min	
7	Spot : Switchyard Control Building Plan : GTS4 : Switchgear	2480582 (6)-35 2480582 (6)-36	13-Aug-24 13-Aug-24	Day time Night time	1 1	421 405	- -	300-400 300-400	- -	Pass Pass			
8	Area : Switchyard Control Building Plan : GTS4 : Switchyard Control Room	2480582 (6)-37 2480582 (6)-38 2480582 (6)-39 2480582 (6)-40 2480582 (6)-41 2480582 (6)-42 2480582 (6)-43 2480582 (6)-44	13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24	Day time Day time Day time Day time Night time Night time Night time Night time	1 2 3 4 1 2 3 4	955 698 650 520 434 623 703 517	706 100 100 200	Pass Pass Pass Pass					

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

Technical Management  
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Analysis / Test Report

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Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (7)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (7)-1

Page 1 of 1

Lay out No.	Location	Reference Number	GTS3		No.	Time	Date	Illuminance (Lux)		Spot	Guideline Limit		Comment
			Average	Spot/Min				Average	Spot/Min		Average	Spot/Min	
1	Spot : Water Treatment Control Building : Fire Pump	2480582 (7)-1 2480582 (7)-2	13-Aug-24 13-Aug-24	Day time Night time	1 1	948 329	- -	300-400 300-400	- -	Pass Pass			
2	Spot : Water Treatment Control Building : Laboratory 1 (Fume Hood)	2480582 (7)-3 2480582 (7)-4	13-Aug-24 13-Aug-24	Day time Night time	1 1	444 456	- -	400-500 400-500	- -	Pass Pass			
3	Spot : Water Treatment Control Building : Laboratory 2 (Water Table)	2480582 (7)-5 2480582 (7)-6	13-Aug-24 13-Aug-24	Day time Night time	1 1	655 512	- -	400-500 400-500	- -	Pass Pass			
4	Spot : Water Treatment Control Building : Office Laboratory	2480582 (7)-7 2480582 (7)-8	13-Aug-24 13-Aug-24	Day time Night time	1 1	583 487	- -	400-500 400-500	- -	Pass Pass			
5	Spot : Water Treatment Control Building : Water Treatment	2480582 (7)-9 2480582 (7)-10	13-Aug-24 13-Aug-24	Day time Night time	1 1	990 984	- -	300-400 300-400	- -	Pass Pass			

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

Technical Management  
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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluek Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480582 (8)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (8)-1

Page 1 of 2

GTS3						
Lay out No.	Location	Reference Number	Date	Time	No.	Comment
1	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2480582 (8)-1	13-Aug-24	Day time	1	311 - Pass
4	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2480582 (8)-2	13-Aug-24	Day time	1	411 - Pass
5	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2480582 (8)-3	13-Aug-24	Day time	1	481 - Pass
6	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 3	2480582 (8)-4	13-Aug-24	Day time	1	447 - Pass
7	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 4	2480582 (8)-5	13-Aug-24	Day time	1	437 - Pass
8	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2480582 (8)-6	13-Aug-24	Day time	1	430 - Pass
9	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2480582 (8)-7	13-Aug-24	Day time	1	494 - Pass
10	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 3	2480582 (8)-8	13-Aug-24	Day time	1	456 - Pass
11	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 4	2480582 (8)-9	13-Aug-24	Day time	1	446 - Pass
12	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2480582 (8)-10	13-Aug-24	Day time	1	416 - Pass
13	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2480582 (8)-11	13-Aug-24	Day time	1	446 - Pass
14	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 3	2480582 (8)-12	13-Aug-24	Day time	1	406 - Pass
15	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 4	2480582 (8)-13	13-Aug-24	Day time	1	425 - Pass
16	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2480582 (8)-14	13-Aug-24	Day time	1	600 - Pass
17	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2480582 (8)-15 2480582 (8)-16 2480582 (8)-17	13-Aug-24 13-Aug-24 13-Aug-24	Day time Day time Day time	1 2 3	973 529 898 - Pass
18	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 3	2480582 (8)-18 2480582 (8)-19	13-Aug-24 13-Aug-24	Day time Day time	1 2	127 102 - Pass

Technical Management  
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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluek Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 2480582 (8)  
Date Received : Aug 15, 2024  
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Report Number: 2480582 (8)-1

Page 2 of 2

GTS3						
Lay out No.	Location	Reference Number	Date	Time	No.	Comment
19	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2480582 (8)-20 2480582 (8)-21	13-Aug-24 13-Aug-24	Day time Day time	1 2	151 105 - Pass
20	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2480582 (8)-22 2480582 (8)-23	13-Aug-24 13-Aug-24	Day time Day time	1 2	288 287 - Pass
21	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2480582 (8)-24 2480582 (8)-25	13-Aug-24 13-Aug-24	Day time Day time	1 2	426 366 - Pass
22	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 3	2480582 (8)-26 2480582 (8)-27 2480582 (8)-28	13-Aug-24 13-Aug-24 13-Aug-24	Day time Day time Day time	1 2 3	383 941 764 - Pass
		2480582 (8)-29 2480582 (8)-30 2480582 (8)-31	13-Aug-24 13-Aug-24 13-Aug-24	Day time Day time Day time	4 5 6	938 705 1,267 - Pass
23	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น W/H	2480582 (8)-32 2480582 (8)-33	13-Aug-24 13-Aug-24	Day time Day time	1 2	650 525 - Pass
24	Area : Workshop and Warehouse : 2nd Floor : Store	2480582 (8)-34 2480582 (8)-35 2480582 (8)-36 2480582 (8)-37 2480582 (8)-38 2480582 (8)-39 2480582 (8)-40 2480582 (8)-41 2480582 (8)-42 2480582 (8)-43 2480582 (8)-44 2480582 (8)-45 2480582 (8)-46 2480582 (8)-47 2480582 (8)-48 2480582 (8)-49	13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24 13-Aug-24	Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	192 178 217 253 361 329 307 290 264 293 333 372 206 194 180 191 - Pass

Measurement by : Naitakam Vonginyoo

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

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## Analysis / Test Report

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P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (9)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (9)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Comment	
						Spot	Average	Guideline Limit		
						Spot	Average	Spot/Min	Average	
1	Area : Workshop and Warehouse : Ground Floor : Store ชั้น 1	2480582 (9)-1	13-Aug-24	Day time	1	384	410	100	200	Pass
		2480582 (9)-2	13-Aug-24	Day time	2	480				
		2480582 (9)-3	13-Aug-24	Day time	3	530				
		2480582 (9)-4	13-Aug-24	Day time	4	384				
		2480582 (9)-5	13-Aug-24	Day time	5	316				
		2480582 (9)-6	13-Aug-24	Day time	6	337				
		2480582 (9)-7	13-Aug-24	Day time	7	459				
		2480582 (9)-8	13-Aug-24	Day time	8	506				
		2480582 (9)-9	13-Aug-24	Day time	9	508				
		2480582 (9)-10	13-Aug-24	Day time	10	336				
		2480582 (9)-11	13-Aug-24	Day time	11	415				
		2480582 (9)-12	13-Aug-24	Day time	12	260				
		2480582 (9)-13	13-Aug-24	Day time	13	185				
		2480582 (9)-14	13-Aug-24	Day time	14	450				
		2480582 (9)-15	13-Aug-24	Day time	15	475				
		2480582 (9)-16	13-Aug-24	Day time	16	543				
2	Area : Workshop and Warehouse : Ground Floor : โรงงาน W/H	2480582 (9)-17	13-Aug-24	Day time	1	665	1008	50	100	Pass
		2480582 (9)-18	13-Aug-24	Day time	2	1,351				
3	Area : Workshop and Warehouse : Ground Floor : โรงงาน W/H 1	2480582 (9)-19	13-Aug-24	Day time	1	8,110	5185	50	100	Pass
		2480582 (9)-20	13-Aug-24	Day time	2	2,260				
4	Area : Workshop and Warehouse : Ground Floor : โรงงาน ชั้น 1	2480582 (9)-21	13-Aug-24	Day time	1	389	425	50	100	Pass
		2480582 (9)-22	13-Aug-24	Day time	2	513				
		2480582 (9)-23	13-Aug-24	Day time	3	347				
		2480582 (9)-24	13-Aug-24	Day time	4	419				
		2480582 (9)-25	13-Aug-24	Day time	5	344				
		2480582 (9)-26	13-Aug-24	Day time	6	538				
5	Area : Workshop and Warehouse : Ground Floor : โรงงาน Tool Room (AC 1-3)	2480582 (9)-27	13-Aug-24	Day time	1	886	633	100	200	Pass
		2480582 (9)-28	13-Aug-24	Day time	2	464				
		2480582 (9)-29	13-Aug-24	Day time	3	550				
6	Spot : Workshop and Warehouse : Ground Floor : โรงงาน W/H Office 1 TS4	2480582 (9)-30	13-Aug-24	Day time	1	415	-	400-500	-	Pass
		2480582 (9)-31	13-Aug-24	Day time	1	471	-	400-500	-	Pass
7	Spot : Workshop and Warehouse : Ground Floor : โรงงาน W/H Office 2 TS3									

Technical Management : *Supot S.* Supot Salanteh Section Head  
Approved by : *Nichan Chuan* Wichan Choonharat Assistant Manager

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 2480582 (9)  
Date Received : Aug 15, 2024  
Date Reported : Aug 26, 2024  
Report Number: 2480582 (9)-1

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Comment	
						Spot	Average	Guideline Limit		
8	Spot : Workshop and Warehouse : Ground Floor : 1F: Calibration โรงงาน การวัดแสง	2480582 (9)-32	13-Aug-24	Day time	1	564	-	400-500	Pass	
9	Area : Workshop and Warehouse : Ground Floor : โรงงานการวัดแสง- 1F/A	2480582 (9)-33	13-Aug-24	Day time	1	652	648	150	300	Pass
		2480582 (9)-34	13-Aug-24	Day time	2	351				
		2480582 (9)-35	13-Aug-24	Day time	3	809				
		2480582 (9)-36	13-Aug-24	Day time	4	894				
		2480582 (9)-37	13-Aug-24	Day time	5	471				
		2480582 (9)-38	13-Aug-24	Day time	6	702				
		2480582 (9)-39	13-Aug-24	Day time	7	700				
		2480582 (9)-40	13-Aug-24	Day time	8	510				
		2480582 (9)-41	13-Aug-24	Day time	9	747				

Measurement by : Natsalam Vonginyoo

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

Technical Management : *Supot S.* Supot Salanteh Section Head  
Approved by : *Nichan Chuan* Wichan Choonharat Assistant Manager

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluk Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 24121860 (1)  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (1)-1

Page 1 of 2

GTS3						
Lay out No.	Location	Reference Number	Date	Time	No.	Comment
1	Spot : Administration Building : 1st Floor : เวทีผู้บริหาร	24121860 (1)-1	20-Nov-24	Day time	1	840 - 300-400 - Pass
2	Spot : Administration Building : 1st Floor : เวที Admin. 1	24121860 (1)-2	20-Nov-24	Day time	1	450 - 400-500 - Pass
3	Spot : Administration Building : 1st Floor : เวที Admin. 2	24121860 (1)-3	20-Nov-24	Day time	1	570 - 400-500 - Pass
4	Spot : Administration Building : 1st Floor : เวที Operation Manager	24121860 (1)-4	20-Nov-24	Day time	1	603 - 400-500 - Pass
5	Spot : Administration Building : 1st Floor : เวที EHS	24121860 (1)-5	20-Nov-24	Day time	1	813 - 400-500 - Pass
6	Spot : Administration Building : 1st Floor : เวที EHS Manager	24121860 (1)-6	20-Nov-24	Day time	1	913 - 400-500 - Pass
7	Spot : Administration Building : 1st Floor : เวที Admin. Manager	24121860 (1)-7	20-Nov-24	Day time	1	653 - 400-500 - Pass
8	Spot : Administration Building : 1st Floor : เวที Plant Manager	24121860 (1)-8	20-Nov-24	Day time	1	445 - 400-500 - Pass
9	Spot : Administration Building : 1st Floor : เวที IT	24121860 (1)-9	20-Nov-24	Day time	1	410 - 400-500 - Pass
10	Spot : Administration Building : 1st Floor : เวที Admin. 1	24121860 (1)-10	20-Nov-24	Day time	1	411 - 400-500 - Pass
11	Spot : Administration Building : 1st Floor : เวที Admin. 2	24121860 (1)-11	20-Nov-24	Day time	1	632 - 400-500 - Pass
12	Area : Administration Building : 1st Floor : เวที	24121860 (1)-12	20-Nov-24	Day time	1	661 568 50 100 Pass
		24121860 (1)-13	20-Nov-24	Day time	2	598
		24121860 (1)-14	20-Nov-24	Day time	3	495
		24121860 (1)-15	20-Nov-24	Day time	4	559
		24121860 (1)-16	20-Nov-24	Day time	5	512
		24121860 (1)-17	20-Nov-24	Day time	6	583
13	Area : Administration Building : 1st Floor : เวที Admin. 1	24121860 (1)-18	20-Nov-24	Day time	1	614 661 100 200 Pass
		24121860 (1)-19	20-Nov-24	Day time	2	748

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 TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluk Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

Lot ID: 24121860 (1)  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (1)-1

Page 2 of 2

GTS3						
Lay out No.	Location	Reference Number	Date	Time	No.	Comment
15	Area : Administration Building : 1st Floor : เวทีผู้บริหาร	24121860 (1)-20	20-Nov-24	Day time	1	315 349 150 300 Pass
		24121860 (1)-21	20-Nov-24	Day time	2	309
		24121860 (1)-22	20-Nov-24	Day time	3	286
		24121860 (1)-23	20-Nov-24	Day time	4	339
		24121860 (1)-24	20-Nov-24	Day time	5	445
		24121860 (1)-25	20-Nov-24	Day time	6	446
		24121860 (1)-26	20-Nov-24	Day time	7	310
		24121860 (1)-27	20-Nov-24	Day time	8	319
		24121860 (1)-28	20-Nov-24	Day time	9	326
		24121860 (1)-29	20-Nov-24	Day time	10	417
		24121860 (1)-30	20-Nov-24	Day time	11	311
		24121860 (1)-31	20-Nov-24	Day time	12	368
16	Area : Administration Building : 1st Floor : เวที Admin	24121860 (1)-32	20-Nov-24	Day time	1	658 701 50 100 Pass
		24121860 (1)-33	20-Nov-24	Day time	2	654
		24121860 (1)-34	20-Nov-24	Day time	3	779
		24121860 (1)-35	20-Nov-24	Day time	4	713
17	Area : Administration Building : 1st Floor : เวที Admin	24121860 (1)-36	20-Nov-24	Day time	1	314 368 150 300 Pass
		24121860 (1)-37	20-Nov-24	Day time	2	319
		24121860 (1)-38	20-Nov-24	Day time	3	435
		24121860 (1)-39	20-Nov-24	Day time	4	406

Measurement by : Noranon Tathongkham

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

Wichan Choonharat  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

**Lot ID: 24121860 (2)**  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (2)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Comment
						Spot	Average	Spot/Min	
1	Area : CCR : Control Building : 1st Floor : Switchgear Room	24121860 (2)-1	20-Nov-24	Day time	1	649	639	100	Pass
		24121860 (2)-2	20-Nov-24	Day time	2	780			
		24121860 (2)-3	20-Nov-24	Day time	3	619			
		24121860 (2)-4	20-Nov-24	Day time	4	729			
		24121860 (2)-5	20-Nov-24	Day time	5	618			
		24121860 (2)-6	20-Nov-24	Day time	6	821			
		24121860 (2)-7	20-Nov-24	Day time	7	780			
		24121860 (2)-8	20-Nov-24	Day time	8	619			
		24121860 (2)-9	20-Nov-24	Day time	9	742			
		24121860 (2)-10	20-Nov-24	Day time	10	719			
		24121860 (2)-11	20-Nov-24	Day time	11	642			
		24121860 (2)-12	20-Nov-24	Day time	12	637			
		24121860 (2)-13	20-Nov-24	Day time	13	665			
		24121860 (2)-14	20-Nov-24	Day time	14	714			
		24121860 (2)-15	20-Nov-24	Day time	15	619			
		24121860 (2)-16	20-Nov-24	Day time	16	629			
		24121860 (2)-17	20-Nov-24	Day time	17	410			
		24121860 (2)-18	20-Nov-24	Day time	18	518			
		24121860 (2)-19	20-Nov-24	Night time	1	522	538	100	Pass
		24121860 (2)-20	20-Nov-24	Night time	2	511			
		24121860 (2)-21	20-Nov-24	Night time	3	478			
		24121860 (2)-22	20-Nov-24	Night time	4	456			
		24121860 (2)-23	20-Nov-24	Night time	5	460			
		24121860 (2)-24	20-Nov-24	Night time	6	474			
		24121860 (2)-25	20-Nov-24	Night time	7	522			
		24121860 (2)-26	20-Nov-24	Night time	8	489			
		24121860 (2)-27	20-Nov-24	Night time	9	484			
		24121860 (2)-28	20-Nov-24	Night time	10	409			
		24121860 (2)-29	20-Nov-24	Night time	11	588			
		24121860 (2)-30	20-Nov-24	Night time	12	596			
		24121860 (2)-31	20-Nov-24	Night time	13	631			
		24121860 (2)-32	20-Nov-24	Night time	14	600			
		24121860 (2)-33	20-Nov-24	Night time	15	602			
		24121860 (2)-34	20-Nov-24	Night time	16	619			
		24121860 (2)-35	20-Nov-24	Night time	17	422			
		24121860 (2)-36	20-Nov-24	Night time	18	498			

Technical Management

Supot Salanteh  
Section Head

Approved by

Nichan Chonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

**Lot ID: 24121860 (2)**  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (2)-1

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Comment	
						Spot	Average	Spot/Min		
2	Area : CCR : Control Building : 1st Floor : Switchgear Room	24121860 (2)-37	20-Nov-24	Day time	1	491	619	50	100	Pass
		24121860 (2)-38	20-Nov-24	Day time	2	747				
		24121860 (2)-39	20-Nov-24	Night time	1	109	114	50	100	Pass
		24121860 (2)-40	20-Nov-24	Night time	2	119				

Measurement by : Noranon Taitongkham

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 Salanteh  
Section Head

Approved by

Nichan Chonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121860 (3)  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (3)-1

Page 1 of 2

GTS3									
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)	Spot	Average	Guideline Limit
								Spot/Min	Average
1	Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.1	24121860 (3)-1 24121860 (3)-2	20-Nov-24 20-Nov-24	Day time Night time	1 1	469 465	- -	400-500 400-500	- -
2	Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.2	24121860 (3)-3 24121860 (3)-4	20-Nov-24 20-Nov-24	Day time Night time	1 1	528 495	- -	400-500 400-500	- -
3	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.1	24121860 (3)-5 24121860 (3)-6	20-Nov-24 20-Nov-24	Day time Night time	1 1	524 465	- -	400-500 400-500	- -
4	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.2	24121860 (3)-7 24121860 (3)-8	20-Nov-24 20-Nov-24	Day time Night time	1 1	521 491	- -	400-500 400-500	- -
5	Spot : CCR : Control Building : 3rd Floor : DC5	24121860 (3)-9 24121860 (3)-10	20-Nov-24 20-Nov-24	Day time Night time	1 1	632 628	- -	400-500 400-500	- -
6	Spot : CCR : Control Building : 3rd Floor : วิศวกรควบคุม	24121860 (3)-11 24121860 (3)-12	20-Nov-24 20-Nov-24	Day time Night time	1 1	338 326	- -	300-400 300-400	- -
7	Spot : CCR : Control Building : 3rd Floor : วิศวกรควบคุมและวิศวกรโยธา	24121860 (3)-13 24121860 (3)-14	20-Nov-24 20-Nov-24	Day time Night time	1 1	661 657	- -	300-400 300-400	- -
8	Spot : CCR : Control Building : 3rd Floor : วิศวกรควบคุม	24121860 (3)-15	20-Nov-24	Day time	1	414	-	400-500	-
9	Spot : CCR : Control Building : 3rd Floor : วิศวกรควบคุม	24121860 (3)-16	20-Nov-24	Day time	1	780	-	400-500	-
10	Spot : CCR : Control Building : 3rd Floor : วิศวกรควบคุม	24121860 (3)-17 24121860 (3)-18	20-Nov-24 20-Nov-24	Day time Night time	1 1	640 628	- -	400-500 400-500	- -
11	Spot : CCR : Control Building : 3rd Floor : วิศวกรควบคุม	24121860 (3)-19 24121860 (3)-20	20-Nov-24 20-Nov-24	Day time Night time	1 1	489 439	- -	400-500 400-500	- -
12	Spot : CCR : Control Building : 3rd Floor : วิศวกรควบคุม	24121860 (3)-21 24121860 (3)-22	20-Nov-24 20-Nov-24	Day time Night time	1 1	611 605	- -	400-500 400-500	- -
13	Spot : CCR : Control Building : 3rd Floor : วิศวกรควบคุม	24121860 (3)-23 24121860 (3)-24	20-Nov-24 20-Nov-24	Day time Night time	1 1	621 595	- -	400-500 400-500	- -

Technical Management  
Supot Salameh  
Section Head

Approved by  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf TSS Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121860 (3)  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (3)-1

Page 2 of 2

GTS3									
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)	Spot	Average	Guideline Limit
								Spot/Min	Average
14	Area : CCR : Control Building : 3rd Floor : วิศวกร	24121860 (3)-25 24121860 (3)-26 24121860 (3)-27 24121860 (3)-28 24121860 (3)-29 24121860 (3)-30 24121860 (3)-31 24121860 (3)-32 24121860 (3)-33 24121860 (3)-34	20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24	Day time Day time Day time Day time Day time Night time Night time Night time Night time Night time	1 2 3 4 5 1 2 3 4 5	610 539 844 710 757 568 511 763 722 655	692	50	100
15	Area : CCR : Control Building : 3rd Floor : วิศวกร	24121860 (3)-35 24121860 (3)-36 24121860 (3)-37 24121860 (3)-38	20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24	Day time Day time Night time Night time	1 2 1 2	1,841 1,759 187 164	1800	50	100

Measurement by : Noranong Tathongkham

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 Salameh  
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Assistant Manager

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Project Name : Monitoring EIA  
Report Number: 24121860 (4)-1  
Project Location: GTS3

Page 1 of 2

Lay out No.	Location	Reference Number	GTS3		No.	Illuminance (Lux)		Guideline Limit		Comment
			Date	Time		Spot	Average	Spot/Min	Average	
1	Area : Electrical Building : ตู้ 2 : Battery Room	24121860 (4)-1	20-Nov-24	Day time	1	294	491	100	200	Pass
		24121860 (4)-2	20-Nov-24	Day time	2	688				
		24121860 (4)-3	20-Nov-24	Night time	1	249	377	100	200	Pass
		24121860 (4)-4	20-Nov-24	Night time	2	505				
2	Area : Electrical Building : ตู้ 2 : Electrical Room	24121860 (4)-5	20-Nov-24	Day time	1	658	1358	100	200	Pass
		24121860 (4)-6	20-Nov-24	Day time	2	1,213				
		24121860 (4)-7	20-Nov-24	Day time	3	968				
		24121860 (4)-8	20-Nov-24	Day time	4	1,092				
		24121860 (4)-9	20-Nov-24	Day time	5	1,190				
		24121860 (4)-10	20-Nov-24	Day time	6	819				
		24121860 (4)-11	20-Nov-24	Day time	7	969				
		24121860 (4)-12	20-Nov-24	Day time	8	1,096				
		24121860 (4)-13	20-Nov-24	Day time	9	1,056				
		24121860 (4)-14	20-Nov-24	Day time	10	1,123				
		24121860 (4)-15	20-Nov-24	Day time	11	1,476				
		24121860 (4)-16	20-Nov-24	Day time	12	1,921				
		24121860 (4)-17	20-Nov-24	Day time	13	1,482				
		24121860 (4)-18	20-Nov-24	Day time	14	1,329				
		24121860 (4)-19	20-Nov-24	Day time	15	1,231				
		24121860 (4)-20	20-Nov-24	Day time	16	1,198				
		24121860 (4)-21	20-Nov-24	Day time	17	1,631				
		24121860 (4)-22	20-Nov-24	Day time	18	1,810				
		24121860 (4)-23	20-Nov-24	Night time	1	558	639	100	200	Pass
		24121860 (4)-24	20-Nov-24	Night time	2	561				
		24121860 (4)-25	20-Nov-24	Night time	3	549				
		24121860 (4)-26	20-Nov-24	Night time	4	611				
		24121860 (4)-27	20-Nov-24	Night time	5	543				
		24121860 (4)-28	20-Nov-24	Night time	6	511				
		24121860 (4)-29	20-Nov-24	Night time	7	617				
		24121860 (4)-30	20-Nov-24	Night time	8	622				
		24121860 (4)-31	20-Nov-24	Night time	9	566				
		24121860 (4)-32	20-Nov-24	Night time	10	572				
		24121860 (4)-33	20-Nov-24	Night time	11	766				
		24121860 (4)-34	20-Nov-24	Night time	12	776				
		24121860 (4)-35	20-Nov-24	Night time	13	648				
		24121860 (4)-36	20-Nov-24	Night time	14	654				
24121860 (4)-37	20-Nov-24	Night time	15	663						
24121860 (4)-38	20-Nov-24	Night time	16	632						

Technical Management

Supot Salanteh  
Section Head

Approved by

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Project Name : Monitoring EIA  
Report Number: 24121860 (4)-1  
Project Location: GTS3

Page 2 of 2

Lay out No.	Location	Reference Number	GTS3				Illuminance (Lux)		Guideline Limit		Comment
			Date	Time	No.	Spot	Average	Spot/Min	Average		
2	Area : Electrical Building : ตู้ 2 : Electrical Room	24121860 (4)-39	20-Nov-24	Night time	17	622					
		24121860 (4)-40	20-Nov-24	Night time	18	610					
3	Area : Electrical Building : ตู้ 1 : ทางเดินบันได	24121860 (4)-41	20-Nov-24	Day time	1	19,840	19234	50	100	Pass	
		24121860 (4)-42	20-Nov-24	Day time	2	18,629					
		24121860 (4)-43	20-Nov-24	Night time	1	107	140	50	100	Pass	
		24121860 (4)-44	20-Nov-24	Night time	2	174					
4	Area : Electrical Building : ตู้ 2 : ทางเดินบันได	24121860 (4)-45	20-Nov-24	Day time	1	230	199	50	100	Pass	
		24121860 (4)-46	20-Nov-24	Day time	2	168					
		24121860 (4)-47	20-Nov-24	Night time	1	214	206	50	100	Pass	
		24121860 (4)-48	20-Nov-24	Night time	2	198					

Measurement by : Noranon Tathongkham

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 Salanteh  
Section Head

Approved by

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

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

P/O :

Project Name : Monitoring EIA

Project Location: GT53

Lot ID: 24121860 (5)

Date Received : Nov 21, 2024

Date Reported : Nov 22, 2024

Report Number: 24121860 (5)-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	Spot : Electrical Building : ชั้น 3 : Switchgear	24121860 (5)-1	20-Nov-24	Day time	1	673	-	300-400	-	Pass
		24121860 (5)-2	20-Nov-24	Night time	1	494	-	300-400	-	Pass
2	Area : Electrical Building : ชั้น 3 : ควบคุมไฟฟ้า	24121860 (5)-3	20-Nov-24	Day time	1	287	268	50	100	Pass
		24121860 (5)-4	20-Nov-24	Day time	2	248				
		24121860 (5)-5	20-Nov-24	Night time	1	288	272	50	100	Pass
		24121860 (5)-6	20-Nov-24	Night time	2	255				

Measurement by : Norranon Tathongkham

Guideline : Notification of Department of Labour Protection and Welfare, 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.

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Nichan Chuan

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Assistant Manager

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

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

P/O :

Project Name : Monitoring EIA

Project Location: GT53

Lot ID: 24121860 (6)

Date Received : Nov 21, 2024

Date Reported : Nov 22, 2024

Report Number: 24121860 (6)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
GTS3										
1	Area : Switchyard Control Building Plan : GTS3 : Battery Room	24121860 (6)-1	20-Nov-24	Day time	1	231	240	100	200	Pass
		24121860 (6)-2	20-Nov-24	Day time	2	249				
		24121860 (6)-3	20-Nov-24	Night time	1	220	226	100	200	Pass
		24121860 (6)-4	20-Nov-24	Night time	2	231				
2	Area : Switchyard Control Building Plan : GTS3 : Substation GTS3	24121860 (6)-5	20-Nov-24	Day time	1	887	825	100	200	Pass
		24121860 (6)-6	20-Nov-24	Day time	2	561				
		24121860 (6)-7	20-Nov-24	Day time	3	984				
		24121860 (6)-8	20-Nov-24	Day time	4	869				
		24121860 (6)-9	20-Nov-24	Night time	1	681	698	100	200	Pass
		24121860 (6)-10	20-Nov-24	Night time	2	563				
		24121860 (6)-11	20-Nov-24	Night time	3	783				
		24121860 (6)-12	20-Nov-24	Night time	4	766				
3	Spot : Switchyard Control Building Plan : GTS3 : Switchgear	24121860 (6)-13	20-Nov-24	Day time	1	459	-	300-400	-	Pass
		24121860 (6)-14	20-Nov-24	Night time	1	429	-	300-400	-	Pass
4	Area : Switchyard Control Building Plan : GTS3 : Switchyard Control Room	24121860 (6)-15	20-Nov-24	Day time	1	731	968	100	200	Pass
		24121860 (6)-16	20-Nov-24	Day time	2	570				
		24121860 (6)-17	20-Nov-24	Day time	3	1,071				
		24121860 (6)-18	20-Nov-24	Day time	4	1,501				
		24121860 (6)-19	20-Nov-24	Night time	1	712	761	100	200	Pass
		24121860 (6)-20	20-Nov-24	Night time	2	532				
		24121860 (6)-21	20-Nov-24	Night time	3	877				
		24121860 (6)-22	20-Nov-24	Night time	4	922				
5	Area : Switchyard Control Building Plan : GTS4 : Battery Room	24121860 (6)-23	20-Nov-24	Day time	1	238	260	100	200	Pass
		24121860 (6)-24	20-Nov-24	Day time	2	282				
		24121860 (6)-25	20-Nov-24	Night time	1	248	252	100	200	Pass
		24121860 (6)-26	20-Nov-24	Night time	2	256				
6	Area : Switchyard Control Building Plan : GTS4 : Substation GTS4	24121860 (6)-27	20-Nov-24	Day time	1	1,086	824	100	200	Pass
		24121860 (6)-28	20-Nov-24	Day time	2	685				
		24121860 (6)-29	20-Nov-24	Day time	3	726				
		24121860 (6)-30	20-Nov-24	Day time	4	799				
		24121860 (6)-31	20-Nov-24	Night time	1	856	699	100	200	Pass
		24121860 (6)-32	20-Nov-24	Night time	2	569				
		24121860 (6)-33	20-Nov-24	Night time	3	612				
		24121860 (6)-34	20-Nov-24	Night time	4	760				

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 TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121860 (6)  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (6)-1

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Comment
						Spot	Average	Spot/Min	
7	Spot : Switchyard Control Building Plan : GTS4 : Switchgear	24121860 (6)-35	20-Nov-24	Day time	1	440	-	300-400	Pass
		24121860 (6)-36	20-Nov-24	Night time	1	413	-	300-400	Pass
8	Area : Switchyard Control Building Plan : GTS4 : Switchyard Control Room	24121860 (6)-37	20-Nov-24	Day time	1	781	886	100	200
		24121860 (6)-38	20-Nov-24	Day time	2	466			Pass
		24121860 (6)-39	20-Nov-24	Day time	3	888			
		24121860 (6)-40	20-Nov-24	Day time	4	1,410			
		24121860 (6)-41	20-Nov-24	Night time	1	540	517	100	200
		24121860 (6)-42	20-Nov-24	Night time	2	392			Pass
		24121860 (6)-43	20-Nov-24	Night time	3	566			
		24121860 (6)-44	20-Nov-24	Night time	4	571			

Measurement by : Noranon Tathongkham  
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 Salanteh  
Section Head

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location : GTS3

Lot ID: 24121860 (7)  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (7)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Comment
						Spot	Average	Spot/Min	
1	Spot : Water Treatment Control Building : Fire Pump	24121860 (7)-1	20-Nov-24	Day time	1	975	-	300-400	Pass
		24121860 (7)-2	20-Nov-24	Night time	1	317	-	300-400	Pass
2	Spot : Water Treatment Control Building : Laboratory 1 (Fume Hood)	24121860 (7)-3	20-Nov-24	Day time	1	570	-	400-500	Pass
		24121860 (7)-4	20-Nov-24	Night time	1	507	-	400-500	Pass
3	Spot : Water Treatment Control Building : Laboratory 2 (Water Table)	24121860 (7)-5	20-Nov-24	Day time	1	773	-	400-500	Pass
		24121860 (7)-6	20-Nov-24	Night time	1	759	-	400-500	Pass
4	Spot : Water Treatment Control Building : Office Laboratory	24121860 (7)-7	20-Nov-24	Day time	1	606	-	400-500	Pass
		24121860 (7)-8	20-Nov-24	Night time	1	565	-	400-500	Pass
5	Spot : Water Treatment Control Building : Water Treatment	24121860 (7)-9	20-Nov-24	Day time	1	731	-	300-400	Pass
		24121860 (7)-10	20-Nov-24	Night time	1	710	-	300-400	Pass

Measurement by : Noranon Tathongkham  
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 Salanteh  
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## Analysis / Test Report

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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluk Daeng, Rayong Thailand 21140  
P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

**Lot ID: 24121860 (8)**  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (8)-1

Page 1 of 2

GTS3						
Lay out No.	Location	Reference Number	Date	Time	No.	Comment
1	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	24121860 (8)-1	20-Nov-24	Day time	1	319 - 300-400 - Pass
4	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 1	24121860 (8)-2	20-Nov-24	Day time	1	451 - 400-500 - Pass
5	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 2	24121860 (8)-3	20-Nov-24	Day time	1	507 - 400-500 - Pass
6	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 3	24121860 (8)-4	20-Nov-24	Day time	1	435 - 400-500 - Pass
7	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 4	24121860 (8)-5	20-Nov-24	Day time	1	439 - 400-500 - Pass
8	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 1	24121860 (8)-6	20-Nov-24	Day time	1	468 - 400-500 - Pass
9	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 2	24121860 (8)-7	20-Nov-24	Day time	1	470 - 400-500 - Pass
10	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 3	24121860 (8)-8	20-Nov-24	Day time	1	413 - 400-500 - Pass
11	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 4	24121860 (8)-9	20-Nov-24	Day time	1	446 - 400-500 - Pass
12	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MM 1	24121860 (8)-10	20-Nov-24	Day time	1	415 - 400-500 - Pass
13	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MM 2	24121860 (8)-11	20-Nov-24	Day time	1	423 - 400-500 - Pass
14	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MM 3	24121860 (8)-12	20-Nov-24	Day time	1	411 - 400-500 - Pass
15	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MM 4	24121860 (8)-13	20-Nov-24	Day time	1	409 - 400-500 - Pass
16	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MM Manager	24121860 (8)-14	20-Nov-24	Day time	1	721 - 400-500 - Pass
17	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	24121860 (8)-15 24121860 (8)-16 24121860 (8)-17	20-Nov-24 20-Nov-24 20-Nov-24	Day time Day time Day time	1 2 3	674 713 655 - 50 100 - Pass
18	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	24121860 (8)-18 24121860 (8)-19	20-Nov-24 20-Nov-24	Day time Day time	1 2	98 109 - 50 100 - Pass

**Technical Management**  
Supot Salameh  
Section Head

**Approved by**  
*Nichan Chuan*  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

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P/O :  
Project Name : Monitoring EIA  
Project Location: GTS3

**Lot ID: 24121860 (8)**  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Report Number: 24121860 (8)-1

Page 2 of 2

GTS3						
Lay out No.	Location	Reference Number	Date	Time	No.	Comment
19	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	24121860 (8)-20 24121860 (8)-21	20-Nov-24 20-Nov-24	Day time Day time	1 2	133 129 - 131 50 100 - Pass
20	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	24121860 (8)-22 24121860 (8)-23 24121860 (8)-28	20-Nov-24 20-Nov-24 20-Nov-24	Day time Day time Day time	1 2 3	329 344 1,566 - 336 100 200 - Pass
21	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	24121860 (8)-24 24121860 (8)-25	20-Nov-24 20-Nov-24	Day time Day time	1 2	568 493 - 530 50 100 - Pass
22	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	24121860 (8)-26 24121860 (8)-27 24121860 (8)-28 24121860 (8)-29 24121860 (8)-30 24121860 (8)-31	20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24	Day time Day time Day time Day time Day time Day time	1 2 3 4 5 6	1,233 1,240 1,566 1,718 1,569 1,211 - 1423 150 300 - Pass
23	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	24121860 (8)-32 24121860 (8)-33	20-Nov-24 20-Nov-24	Day time Day time	1 2	997 1,108 - 1052 25 50 - Pass
24	Area : Workshop and Warehouse : 2nd Floor : Store	24121860 (8)-34 24121860 (8)-35 24121860 (8)-36 24121860 (8)-37 24121860 (8)-38 24121860 (8)-39 24121860 (8)-40 24121860 (8)-41 24121860 (8)-42 24121860 (8)-43	20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24 20-Nov-24	Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time Day time	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	573 308 378 366 1,308 884 892 1,532 1,025 1,018 1,112 1,280 1,193 1,358 1,062 1,153 - 965 100 200 - Pass

Measurement by : Noranon Tathongkham

**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 Salameh  
Section Head

**Approved by**  
*Nichan Chuan*  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Date Received : Nov 21, 2024  
Date Reported : Nov 22, 2024  
Project Name : Monitoring EIA  
Report Number: 24121860 (9)-1  
Project Location: GTS3

Page 1 of 2

Lay out No.	Location	GTS3				Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
		Spot	Average	Spot/Min	Average					Spot	Average	Spot/Min	Average	
1	Area : Workshop and Warehouse : Ground Floor : Store 4th 1	24121860 (9)-1	20-Nov-24	Day time	1	566						100	200	Pass
		24121860 (9)-2	20-Nov-24	Day time	2	534								
		24121860 (9)-3	20-Nov-24	Day time	3	715								
		24121860 (9)-4	20-Nov-24	Day time	4	828								
		24121860 (9)-5	20-Nov-24	Day time	5	563								
		24121860 (9)-6	20-Nov-24	Day time	6	693								
		24121860 (9)-7	20-Nov-24	Day time	7	448								
		24121860 (9)-8	20-Nov-24	Day time	8	951								
		24121860 (9)-9	20-Nov-24	Day time	9	923								
		24121860 (9)-10	20-Nov-24	Day time	10	654								
		24121860 (9)-11	20-Nov-24	Day time	11	940								
		24121860 (9)-12	20-Nov-24	Day time	12	984								
		24121860 (9)-13	20-Nov-24	Day time	13	382								
		24121860 (9)-14	20-Nov-24	Day time	14	470								
		24121860 (9)-15	20-Nov-24	Day time	15	520								
		24121860 (9)-16	20-Nov-24	Day time	16	411								
2	Area : Workshop and Warehouse : Ground Floor : Warehouse W/H	24121860 (9)-17	20-Nov-24	Day time	1	1,188						50	100	Pass
		24121860 (9)-18	20-Nov-24	Day time	2	657								
3	Area : Workshop and Warehouse : Ground Floor : Warehouse W/H 1st Flr	24121860 (9)-19	20-Nov-24	Day time	1	893						50	100	Pass
		24121860 (9)-20	20-Nov-24	Day time	2	568								
4	Area : Workshop and Warehouse : Ground Floor : Warehouse 1	24121860 (9)-21	20-Nov-24	Day time	1	456						50	100	Pass
		24121860 (9)-22	20-Nov-24	Day time	2	430								
		24121860 (9)-23	20-Nov-24	Day time	3	367								
		24121860 (9)-24	20-Nov-24	Day time	4	392								
		24121860 (9)-25	20-Nov-24	Day time	5	388								
		24121860 (9)-26	20-Nov-24	Day time	6	410								
5	Area : Workshop and Warehouse : Ground Floor : Warehouse Tool Room (AC 1-3)	24121860 (9)-27	20-Nov-24	Day time	1	579						100	200	Pass
		24121860 (9)-28	20-Nov-24	Day time	2	513								
		24121860 (9)-29	20-Nov-24	Day time	3	570								
6	Spot : Workshop and Warehouse : Ground Floor : Warehouse Office 1 TS4	24121860 (9)-30	20-Nov-24	Day time	1	411						-	400-500	Pass
7	Spot : Workshop and Warehouse : Ground Floor : Warehouse Office 2 TS3	24121860 (9)-31	20-Nov-24	Day time	1	425						-	400-500	Pass

Technical Management

Supot Salameh  
Section Head

Approved by

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf TS3 Co., Ltd.  
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140  
P/O :  
Date Received : Nov 21, 2024  
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Project Location: GTS3

Page 2 of 2

Lay out No.	Location	GTS3				Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
		Spot	Average	Spot/Min	Average					Spot	Average	Spot/Min	Average	
8	Spot : Workshop and Warehouse : Ground Floor : Warehouse Calibration Warehouse	24121860 (9)-32	20-Nov-24	Day time	1	574						400-500	-	Pass
9	Area : Workshop and Warehouse : Ground Floor : Warehouse Warehouse	24121860 (9)-33	20-Nov-24	Day time	1	617						150	300	Pass
		24121860 (9)-34	20-Nov-24	Day time	2	620								
		24121860 (9)-35	20-Nov-24	Day time	3	596								
		24121860 (9)-36	20-Nov-24	Day time	4	588								
		24121860 (9)-37	20-Nov-24	Day time	5	592								
		24121860 (9)-38	20-Nov-24	Day time	6	633								
		24121860 (9)-39	20-Nov-24	Day time	7	660								
		24121860 (9)-40	20-Nov-24	Day time	8	658								
		24121860 (9)-41	20-Nov-24	Day time	9	642								

Measurement by : Noranon Takhongkham

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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# ภาคผนวก ค-10

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แผนผังแสดงเส้นระดับเสียง (Noise Contour Map)





# Noise Contour Map

Gulf TS3 Co., Ltd.

Reference Number : Lot 2480576-1

Measurement Date : Aug 14, 2024

บริเวณกระบวนการผลิตไฟฟ้าที่มีเสียงดัง

