



## Analysis / Test Report

**Client** : Gulf JP UT Co., Ltd.  
999 Moo 1, Ban Chang, Uthai, Pranakhonsiyutthaya Thailand 13210  
**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147435**

Date Received : Jan 12, 2022  
Date Reported : Jan 18, 2022  
Report Number : 2179669-1

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**Sample Number** : 21147435-1  
**Sampled Date** : Jan 11, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 11  
**Parameter** : NOx

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	11 Jan 22	10:40	11:00	20.58	19.69	45.02	42.02	-3.00
2	11 Jan 22	11:01	11:21	20.86	20.67	45.68	44.12	-1.56
3	11 Jan 22	11:22	11:42	21.39	20.85	46.84	44.56	-2.27
4*	11 Jan 22	11:43	12:03	21.86	20.30	47.86	43.48	-4.38
5*	11 Jan 22	12:04	12:24	20.58	16.57	45.42	36.17	-9.25
6	11 Jan 22	12:25	12:45	13.94	12.68	32.04	28.27	-3.77
7	11 Jan 22	12:46	13:06	14.25	12.71	32.71	28.36	-4.36
8*	11 Jan 22	13:07	13:27	14.36	12.73	32.99	28.38	-4.61
9	11 Jan 22	13:28	13:48	13.64	12.49	31.39	27.93	-3.45
10	11 Jan 22	13:49	14:09	14.00	12.79	32.14	28.58	-3.56
11	11 Jan 22	14:10	14:30	14.19	12.91	32.53	28.89	-3.64
12	11 Jan 22	14:31	14:51	14.13	12.71	32.40	28.54	-3.87
<b>Average</b>						36.75	33.48	-3.28
<b>Confidence Coefficient (CC)</b>								0.67
<b>Relative Accuracy (Compared with Emission Standard : 70 ppm) (%)</b>								5.63
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 70 ppm)</b>								≤ 10%

Reference Method : US EPA Method 7E

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

<sup>1/</sup> Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 70 ppm at 7%O2  
RA Result is within Criteria

Technical Management

  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ๖-204-ค-6113

Approved by

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

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**Lot ID: 21147435**

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**Sample Number** : 21147435-1  
**Sampled Date** : Jan 11, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 11  
**Parameter** : SO<sub>2</sub>

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O <sub>2</sub>		Corrected Value at 7% O <sub>2</sub>		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	11 Jan 22	10:40	11:00	0.39	0.14	0.85	0.30	-0.55
2	11 Jan 22	11:01	11:21	0.37	0.16	0.81	0.35	-0.46
3	11 Jan 22	11:22	11:42	0.37	0.17	0.82	0.37	-0.44
4	11 Jan 22	11:43	12:03	0.36	0.16	0.78	0.34	-0.44
5*	11 Jan 22	12:04	12:24	0.42	0.12	0.93	0.25	-0.67
6*	11 Jan 22	12:25	12:45	0.40	0.10	0.92	0.22	-0.70
7	11 Jan 22	12:46	13:06	0.32	0.10	0.74	0.23	-0.51
8	11 Jan 22	13:07	13:27	0.39	0.11	0.90	0.25	-0.65
9*	11 Jan 22	13:28	13:48	0.43	0.13	1.00	0.28	-0.71
10	11 Jan 22	13:49	14:09	0.41	0.14	0.95	0.30	-0.64
11	11 Jan 22	14:10	14:30	0.42	0.14	0.95	0.32	-0.63
12	11 Jan 22	14:31	14:51	0.39	0.17	0.89	0.38	-0.52
<b>Average</b>						0.85	0.32	-0.54
<b>Confidence Coefficient (CC)</b>								0.07
<b>Relative Accuracy (Compared with Emission Standard : 10 ppm) (%)</b>								6.04
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 10 ppm)</b>								≤ 10%

Reference Method : US EPA Method 6C

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

<sup>1/</sup> Relative Accuracy Criteria of SO<sub>2</sub> is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 10 ppm at 7%O<sub>2</sub>  
RA Result is within Criteria

**Technical Management**

*Wichan Choonharat*

Wichan Choonharat  
Manager

ทะเบียนเลขที่ ๖-204-ค-6113

**Approved by**

*Sarayuth Jitranont*

Sarayuth Jitranont  
Assistant General Manager

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**Project Location** : GUT

**Lot ID: 21147435**

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Date Reported : Jan 18, 2022  
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**Sample Number** : 21147435-1  
**Sampled Date** : Jan 11, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 11  
**Parameter** : CO

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	11 Jan 22	10:40	11:00	18.81	20.37	41.15	43.48	2.33
2	11 Jan 22	11:01	11:21	17.58	19.61	38.50	41.86	3.36
3	11 Jan 22	11:22	11:42	16.72	19.20	36.60	41.03	4.43
4	11 Jan 22	11:43	12:03	14.58	20.55	31.93	44.02	12.08
5*	11 Jan 22	12:04	12:24	25.92	67.79	57.19	148.03	90.83
6*	11 Jan 22	12:25	12:45	132.36	118.76	304.15	264.69	-39.46
7	11 Jan 22	12:46	13:06	121.19	117.14	278.11	261.34	-16.77
8	11 Jan 22	13:07	13:27	116.91	115.71	268.63	258.01	-10.62
9*	11 Jan 22	13:28	13:48	135.18	128.78	311.16	287.94	-23.22
10	11 Jan 22	13:49	14:09	123.55	122.15	283.59	273.04	-10.55
11	11 Jan 22	14:10	14:30	121.05	117.97	277.46	264.13	-13.33
12	11 Jan 22	14:31	14:51	125.07	123.36	286.87	276.97	-9.90
<b>Average</b>						171.43	167.10	-4.33
<b>Confidence Coefficient (CC)</b>								7.66
<b>Relative Accuracy (Compared with Emission Standard : 690 ppm) (%)</b>								1.74
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard :690 ppm)</b>								≤ 5%

Reference Method : US EPA Method 10

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

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

**Technical Management**



Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ก-6113

**Approved by**



Sarayuth Jitranont  
Assistant General Manager

ทะเบียนเลขที่ ว-204-ก-4702

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**P/O :** สัญญาเลขที่ 4600001481  
**Project Name :** Monitoring EIA  
**Project Location :** GUT

**Lot ID: 21147435**

Date Received : Jan 12, 2022  
Date Reported : Jan 18, 2022  
Report Number : 2179669-1

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**Sample Number** 21147435-1  
**Sampled Date** Jan 11, 2022  
**Sample Description** Emission from Stationary Source  
**Location** HRS 11  
**Parameter** O2

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	11 Jan 22	10:40	11:00	14.55	14.39	-0.16
2	11 Jan 22	11:01	11:21	14.55	14.39	-0.16
3	11 Jan 22	11:22	11:42	14.55	14.40	-0.16
4	11 Jan 22	11:43	12:03	14.55	14.41	-0.14
5	11 Jan 22	12:04	12:24	14.60	14.53	-0.07
6*	11 Jan 22	12:25	12:45	14.85	14.66	-0.19
7	11 Jan 22	12:46	13:06	14.84	14.67	-0.17
8*	11 Jan 22	13:07	13:27	14.85	14.67	-0.18
9*	11 Jan 22	13:28	13:48	14.86	14.68	-0.18
10	11 Jan 22	13:49	14:09	14.84	14.68	-0.16
11	11 Jan 22	14:10	14:30	14.84	14.69	-0.14
12	11 Jan 22	14:31	14:51	14.84	14.71	-0.13
<b>Average</b>				14.68	14.54	-0.14
<b>Confidence Coefficient (CC)</b>						-
<b>Relative Accuracy (Compared in Actual) (%)</b>						0.14
<b>Relative Accuracy Criteria (%)</b>						≤ 1%

Reference Method : US EPA Method 3A

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

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

RA Result is within Criteria

**Sampled By :** Ussaree Namburee

**Technical Management**



Wichan Choonharat

Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**



Sarayuth Jitranont  
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-4702

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**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147446**

Date Received : Jan 12, 2022  
Date Reported : Jan 24, 2022  
Report Number : 2205821-2

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**Sample Number** : 21147446-1  
**Sampled Date** : Jan 11, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 11  
**Parameter** : Flowrate

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (Nm3/Hr)	RM (Nm3/Hr)	
1	11-Jan-22	11:00	11:14	2,139,237	2,178,673	39,436
2	11-Jan-22	12:00	12:14	2,132,902	2,137,515	4,613
3	11-Jan-22	12:20	12:34	1,895,136	2,131,044	235,908
4	11-Jan-22	12:40	12:54	1,849,356	2,137,688	288,332
5	11-Jan-22	13:00	13:14	1,844,526	2,122,575	278,049
6*	11-Jan-22	13:20	13:34	1,845,353	2,147,219	301,866
7*	11-Jan-22	13:40	13:54	1,836,264	2,129,722	293,458
8	11-Jan-22	14:00	14:14	1,841,263	2,118,582	277,319
9*	11-Jan-22	14:20	14:34	1,850,162	2,143,420	293,258
10	11-Jan-22	14:40	14:54	1,837,422	2,120,806	283,384
11	11-Jan-22	15:00	15:14	1,845,843	2,095,494	249,651
12	11-Jan-22	15:20	15:34	1,851,794	2,138,923	287,129
<b>Average</b>				1,915,276	2,131,256	215,980
<b>Confidence Coefficient (CC)</b>						85,866
<b>Relative Accuracy <sup>1/</sup> (Compared with RM) (%)</b>						14.16
<b>Relative Accuracy Criteria (Compared with RM)</b>						≤ 20 %

Reference Method : US EPA Method 2

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

<sup>1/</sup> Relative Accuracy Criteria of Flowrate is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 6 (PS-6)

RA Result is within Criteria

**Sampled By :** Artit Srisen

**Technical Management**



Wichan Choonharat

Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**



Sarayuth Jitranont

Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-4702

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**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147436**

Date Received : Jan 12, 2022  
Date Reported : Jan 18, 2022  
Report Number : 2179667-1

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**Sample Number** : 21147436-1  
**Sampled Date** : Jan 12, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 12  
**Parameter** : NOx

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	12 Jan 22	8:40	9:00	13.70	12.74	30.21	27.04	-3.17
2	12 Jan 22	9:01	9:21	13.64	13.06	29.84	27.67	-2.16
3	12 Jan 22	9:22	9:42	13.55	13.00	29.48	27.50	-1.98
4*	12 Jan 22	9:43	10:03	13.52	12.61	29.35	26.62	-2.73
5	12 Jan 22	10:04	10:24	13.25	12.92	28.82	27.25	-1.57
6*	12 Jan 22	10:25	10:45	13.59	12.71	29.54	26.85	-2.68
7	12 Jan 22	10:46	11:06	13.11	12.58	28.57	26.59	-1.97
8	12 Jan 22	11:07	11:27	13.28	12.68	28.98	26.83	-2.15
9	12 Jan 22	11:28	11:48	13.30	12.73	29.11	27.05	-2.07
10	12 Jan 22	11:49	12:09	13.48	13.05	29.47	27.70	-1.77
11	12 Jan 22	12:10	12:30	13.63	13.07	29.84	27.67	-2.17
12	12 Jan 22	12:31	12:51	13.87	13.26	30.30	28.03	-2.27
<b>Average</b>						29.38	27.37	-2.01
<b>Confidence Coefficient (CC)</b>								0.17
<b>Relative Accuracy (Compared with Emission Standard : 70 ppm) (%)</b>								3.12
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 70 ppm)</b>								≤ 10%

Reference Method : US EPA Method 7E

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

<sup>1/</sup> Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 70 ppm at 7%O2  
RA Result is within Criteria

Technical Management



Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ค-6113

Approved by



Sarayuth Jitranont  
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-4702

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**Project Location** : GUT

**Lot ID: 21147436**

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**Sample Number** : 21147436-1  
**Sampled Date** : Jan 12, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 12  
**Parameter** : SO<sub>2</sub>

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O <sub>2</sub>		Corrected Value at 7% O <sub>2</sub>		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	12 Jan 22	8:40	9:00	0.00	0.13	0.00	0.28	0.28
2*	12 Jan 22	9:01	9:21	0.00	0.15	0.00	0.31	0.31
3	12 Jan 22	9:22	9:42	0.00	0.14	0.00	0.29	0.29
4	12 Jan 22	9:43	10:03	0.00	0.14	0.00	0.29	0.29
5	12 Jan 22	10:04	10:24	0.00	0.12	0.00	0.26	0.26
6	12 Jan 22	10:25	10:45	0.00	0.11	0.00	0.24	0.24
7	12 Jan 22	10:46	11:06	0.00	0.11	0.00	0.24	0.24
8	12 Jan 22	11:07	11:27	0.00	0.14	0.00	0.29	0.29
9	12 Jan 22	11:28	11:48	0.00	0.14	0.00	0.29	0.29
10*	12 Jan 22	11:49	12:09	0.00	0.15	0.00	0.32	0.32
11	12 Jan 22	12:10	12:30	0.00	0.13	0.00	0.28	0.28
12*	12 Jan 22	12:31	12:51	0.00	0.14	0.00	0.30	0.30
<b>Average</b>						0.00	0.27	0.27
<b>Confidence Coefficient (CC)</b>								0.02
<b>Relative Accuracy (Compared with Emission Standard : 10 ppm) (%)</b>								2.90
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 10 ppm)</b>								≤ 10%

Reference Method : US EPA Method 6C

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

<sup>1/</sup> Relative Accuracy Criteria of SO<sub>2</sub> is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 10 ppm at 7%O<sub>2</sub>  
RA Result is within Criteria

**Technical Management**

*Wichan Choonharat*

Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

*Sarayuth Jitranont*

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

**Client** : Gulf JP UT Co., Ltd.  
999 Moo 1, Ban Chang, Uthai, Pranakhonsiyutthaya Thailand 13210  
**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147436**

Date Received : Jan 12, 2022  
Date Reported : Jan 18, 2022  
Report Number : 2179667-1

Page 3 of 4

**Sample Number** : 21147436-1  
**Sampled Date** : Jan 12, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 12  
**Parameter** : CO

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	12 Jan 22	8:40	9:00	41.98	37.22	92.56	78.98	-13.58
2	12 Jan 22	9:01	9:21	31.87	34.27	69.74	72.61	2.88
3	12 Jan 22	9:22	9:42	40.26	37.74	87.59	79.82	-7.76
4*	12 Jan 22	9:43	10:03	42.49	34.39	92.27	72.61	-19.66
5	12 Jan 22	10:04	10:24	31.54	32.08	68.58	67.67	-0.91
6*	12 Jan 22	10:25	10:45	40.91	32.54	88.93	68.76	-20.17
7	12 Jan 22	10:46	11:06	30.41	30.41	66.28	64.29	-1.98
8	12 Jan 22	11:07	11:27	30.63	31.03	66.85	65.63	-1.21
9	12 Jan 22	11:28	11:48	33.47	30.31	73.26	64.37	-8.89
10	12 Jan 22	11:49	12:09	31.12	28.72	68.05	60.95	-7.10
11	12 Jan 22	12:10	12:30	25.83	26.89	56.56	56.93	0.36
12	12 Jan 22	12:31	12:51	32.35	29.34	70.65	62.00	-8.65
<b>Average</b>						69.73	66.03	-3.70
<b>Confidence Coefficient (CC)</b>								3.40
<b>Relative Accuracy (Compared with Emission Standard : 690 ppm) (%)</b>								1.03
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 690 ppm)</b>								≤ 5%

Reference Method : US EPA Method 10

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

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

**Technical Management**



Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ก-6113

**Approved by**



Sarayuth Jitranont  
Assistant General Manager

ทะเบียนเลขที่ ว-204-ก-4702

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## Analysis / Test Report

**Client** : Gulf JP UT Co., Ltd.  
999 Moo 1, Ban Chang, Uthai, Pranakhonsiyutthaya Thailand 13210  
**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147436**

Date Received : Jan 12, 2022  
Date Reported : Jan 18, 2022  
Report Number : 2179667-1

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**Sample Number** : 21147436-1  
**Sampled Date** : Jan 12, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSO 12  
**Parameter** : O<sub>2</sub>

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1*	12 Jan 22	8:40	9:00	14.60	14.35	-0.25
2	12 Jan 22	9:01	9:21	14.55	14.34	-0.21
3	12 Jan 22	9:22	9:42	14.51	14.33	-0.18
4	12 Jan 22	9:43	10:03	14.50	14.32	-0.18
5	12 Jan 22	10:04	10:24	14.51	14.31	-0.20
6	12 Jan 22	10:25	10:45	14.51	14.32	-0.18
7	12 Jan 22	10:46	11:06	14.52	14.33	-0.20
8	12 Jan 22	11:07	11:27	14.53	14.33	-0.20
9	12 Jan 22	11:28	11:48	14.55	14.36	-0.19
10	12 Jan 22	11:49	12:09	14.54	14.35	-0.19
11*	12 Jan 22	12:10	12:30	14.55	14.33	-0.22
12*	12 Jan 22	12:31	12:51	14.54	14.32	-0.21
<b>Average</b>				14.52	14.33	-0.19
<b>Confidence Coefficient (CC)</b>						-
<b>Relative Accuracy (Compared in Actual) (%)</b>						0.19
<b>Relative Accuracy Criteria (%)</b>						≤ 1%

Reference Method : US EPA Method 3A

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

<sup>1/</sup> Relative Accuracy Criteria of O<sub>2</sub> is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

**Sampled By :** Ussaree Namburee

**Technical Management**



Wichan Choonharat

Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**



Sarayuth Jitranont  
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-4702

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## Analysis / Test Report

**Client** : Gulf JP UT Co., Ltd.  
999 Moo 1, Ban Chang, Uthai, Pranakhonsiyutthaya Thailand 13210  
**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147447**

Date Received : Jan 12, 2022  
Date Reported : Jan 24, 2022  
Report Number : 2205825-2

Page 1 of 1

**Sample Number** : 21147447-1  
**Sampled Date** : Jan 12, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 12  
**Parameter** : Flowrate

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (Nm3/Hr)	RM (Nm3/Hr)	
1*	12-Jan-22	8:40	8:54	1,980,465	2,206,837	226,372
2*	12-Jan-22	9:29	9:43	1,989,161	2,216,002	226,841
3	12-Jan-22	9:45	9:59	2,000,414	2,213,761	213,347
4*	12-Jan-22	10:05	10:19	1,993,457	2,226,667	233,210
5	12-Jan-22	10:25	10:39	2,014,060	2,229,443	215,383
6	12-Jan-22	10:45	10:59	2,001,002	2,223,541	222,539
7	12-Jan-22	11:05	11:19	2,040,935	2,206,901	165,966
8	12-Jan-22	11:25	11:39	2,029,865	2,191,039	161,174
9	12-Jan-22	11:45	11:59	2,026,109	2,191,006	164,897
10	12-Jan-22	12:05	12:19	2,034,541	2,195,857	161,316
11	12-Jan-22	12:25	12:39	2,039,260	2,213,635	174,375
12	12-Jan-22	12:45	12:45	2,033,532	2,186,671	153,139
<b>Average</b>				2,024,413	2,205,762	181,348
<b>Confidence Coefficient (CC)</b>						21,119
<b>Relative Accuracy <sup>1/</sup> (Compared with RM) (%)</b>						9.18
<b>Relative Accuracy Criteria (Compared with RM)</b>						≤ 20 %

Reference Method : US EPA Method 2

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

<sup>1/</sup> Relative Accuracy Criteria of Flowrate is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 6 (PS-6)

RA Result is within Criteria

**Sampled By :** Artit Srisen

**Technical Management**



Wichan Choonharat

Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**



Sarayuth Jitranont

Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-4702

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## Analysis / Test Report

**Client** : Gulf JP UT Co., Ltd.  
999 Moo 1, Ban Chang, Uthai, Pranakhonsiyutthaya Thailand 13210  
**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147438**

Date Received : Apr 21, 2022  
Date Reported : Apr 25, 2022  
Report Number : 2179665-1

Page 1 of 4

**Sample Number** : 21147438-1  
**Sampled Date** : Apr 21, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 21  
**Parameter** : NOx

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	21 Apr 22	10:30	10:50	12.89	12.25	30.87	27.90	-2.97
2*	21 Apr 22	10:51	11:11	13.79	12.20	32.85	27.84	-5.00
3	21 Apr 22	11:12	11:32	15.76	16.32	37.04	36.56	-0.48
4*	21 Apr 22	11:33	11:53	16.95	16.08	39.48	35.97	-3.51
5*	21 Apr 22	11:54	12:14	14.47	12.84	34.13	29.46	-4.67
6	21 Apr 22	12:15	12:35	12.09	11.73	28.82	27.10	-1.72
7	21 Apr 22	12:36	12:56	11.23	11.50	26.94	26.63	-0.31
8	21 Apr 22	12:57	13:17	12.42	13.15	29.48	30.11	0.63
9	21 Apr 22	13:18	13:38	13.58	13.44	32.06	30.80	-1.25
10	21 Apr 22	13:39	13:59	13.56	13.84	32.08	31.81	-0.27
11	21 Apr 22	14:00	14:20	13.90	13.98	32.91	32.20	-0.71
12	21 Apr 22	14:21	14:41	14.39	14.07	34.09	32.48	-1.61
<b>Average</b>						31.59	30.62	-0.97
<b>Confidence Coefficient (CC)</b>								0.81
<b>Relative Accuracy (Compared with Emission Standard : 70 ppm) (%)</b>								2.53
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 70 ppm)</b>								≤ 10%

Reference Method : US EPA Method 7E

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

<sup>1/</sup> Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 70 ppm at 7%O2  
RA Result is within Criteria

Technical Management

  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-6113

Approved by

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

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**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147438**

Date Received : Apr 21, 2022  
Date Reported : Apr 25, 2022  
Report Number : 2179665-1

Page 2 of 4

**Sample Number** : 21147438-1  
**Sampled Date** : Apr 21, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 21  
**Parameter** : SO<sub>2</sub>

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O <sub>2</sub>		Corrected Value at 7% O <sub>2</sub>		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	21 Apr 22	10:30	10:50	0.67	0.95	1.59	2.17	0.57
2	21 Apr 22	10:51	11:11	0.72	0.94	1.70	2.15	0.45
3*	21 Apr 22	11:12	11:32	0.66	0.93	1.56	2.08	0.53
4*	21 Apr 22	11:33	11:53	0.65	0.91	1.52	2.04	0.52
5	21 Apr 22	11:54	12:14	0.63	0.81	1.48	1.86	0.39
6	21 Apr 22	12:15	12:35	0.63	0.81	1.50	1.86	0.36
7	21 Apr 22	12:36	12:56	0.65	0.80	1.56	1.85	0.28
8	21 Apr 22	12:57	13:17	0.66	0.78	1.57	1.80	0.23
9	21 Apr 22	13:18	13:38	0.71	0.77	1.68	1.76	0.07
10	21 Apr 22	13:39	13:59	0.66	0.74	1.57	1.70	0.13
11	21 Apr 22	14:00	14:20	0.68	0.70	1.62	1.62	0.00
12	21 Apr 22	14:21	14:41	0.67	0.69	1.58	1.59	0.01
<b>Average</b>						1.59	1.80	0.21
<b>Confidence Coefficient (CC)</b>								0.13
<b>Relative Accuracy (Compared with Emission Standard : 10 ppm) (%)</b>								3.43
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 10 ppm)</b>								≤ 10%

Reference Method : US EPA Method 6C

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

<sup>1/</sup> Relative Accuracy Criteria of SO<sub>2</sub> is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 10 ppm at 7%O<sub>2</sub>  
RA Result is within Criteria

**Technical Management**

  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

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

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## Analysis / Test Report

**Client** : Gulf JP UT Co., Ltd.  
999 Moo 1, Ban Chang, Uthai, Pranakhonsiyutthaya Thailand 13210  
**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147438**

Date Received : Apr 21, 2022  
Date Reported : Apr 25, 2022  
Report Number : 2179665-1

Page 3 of 4

**Sample Number** : 21147438-1  
**Sampled Date** : Apr 21, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 21  
**Parameter** : CO

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	21 Apr 22	10:30	10:50	70.07	67.20	167.75	153.06	-14.69
2	21 Apr 22	10:51	11:11	61.96	69.41	147.58	158.38	10.81
3	21 Apr 22	11:12	11:32	34.06	28.41	80.02	63.63	-16.39
4	21 Apr 22	11:33	11:53	23.23	23.88	54.09	53.42	-0.67
5*	21 Apr 22	11:54	12:14	63.53	89.87	149.83	206.20	56.37
6	21 Apr 22	12:15	12:35	119.89	133.66	285.64	308.78	23.14
7	21 Apr 22	12:36	12:56	150.80	152.68	361.74	353.51	-8.23
8*	21 Apr 22	12:57	13:17	100.95	90.47	239.62	207.15	-32.47
9	21 Apr 22	13:18	13:38	66.46	64.83	156.88	148.56	-8.32
10*	21 Apr 22	13:39	13:59	66.04	54.57	156.27	125.46	-30.81
11	21 Apr 22	14:00	14:20	58.50	50.75	138.56	116.90	-21.66
12	21 Apr 22	14:21	14:41	51.28	49.45	121.48	114.18	-7.30
<b>Average</b>						168.19	163.38	-4.81
<b>Confidence Coefficient (CC)</b>								10.83
<b>Relative Accuracy (Compared with Emission Standard : 690 ppm) (%)</b>								2.27
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 690 ppm)</b>								≤ 5%

Reference Method : US EPA Method 10

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

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

**Technical Management**

  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

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

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## Analysis / Test Report

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**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147438**

Date Received : Apr 21, 2022  
Date Reported : Apr 25, 2022  
Report Number : 2179665-1

Page 4 of 4

**Sample Number** : 21147438-1  
**Sampled Date** : Apr 21, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSO 21  
**Parameter** : O2

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1*	21 Apr 22	10:30	10:50	15.09	14.80	-0.30
2*	21 Apr 22	10:51	11:11	15.06	14.81	-0.26
3*	21 Apr 22	11:12	11:32	14.98	14.69	-0.29
4	21 Apr 22	11:33	11:53	14.93	14.69	-0.24
5	21 Apr 22	11:54	12:14	15.01	14.84	-0.16
6	21 Apr 22	12:15	12:35	15.07	14.88	-0.18
7	21 Apr 22	12:36	12:56	15.11	14.90	-0.21
8	21 Apr 22	12:57	13:17	15.04	14.83	-0.21
9	21 Apr 22	13:18	13:38	15.01	14.83	-0.18
10	21 Apr 22	13:39	13:59	15.03	14.85	-0.17
11	21 Apr 22	14:00	14:20	15.03	14.87	-0.17
12	21 Apr 22	14:21	14:41	15.03	14.88	-0.15
<b>Average</b>				15.03	14.84	-0.19
<b>Confidence Coefficient (CC)</b>						-
<b>Relative Accuracy (Compared in Actual) (%)</b>						0.19
<b>Relative Accuracy Criteria (%)</b>						≤ 1%

Reference Method : US EPA Method 3A

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

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

RA Result is within Criteria

**Sampled By :** Anuvat Mounpair

**Technical Management**

Wichan Choonharat

Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

Sarayuth Jitranont

Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-4702

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## Analysis / Test Report

**Client** : Gulf JP UT Co., Ltd.  
999 Moo 1, Ban Chang, Uthai, Pranakhonsiyutthaya Thailand 13210

**P/O** :  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147448**

Date Received : Apr 21, 2022  
Date Reported : May 10, 2022  
Report Number : 2292506-2

Page 1 of 1

**Sample Number** : 21147448-1  
**Sampled Date** : Apr 21, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 21  
**Parameter** : Flowrate

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (Nm3/Hr)	RM (Nm3/Hr)	
1	21-Apr-22	10:00	10:14	1,670,852	1,792,610	121,758
2	21-Apr-22	10:20	10:34	1,686,421	1,791,794	105,373
3	21-Apr-22	10:40	10:54	1,679,738	1,803,102	123,364
4	21-Apr-22	11:00	11:14	1,671,431	1,815,473	144,042
5	21-Apr-22	11:20	11:34	1,806,249	1,843,947	37,698
6	21-Apr-22	11:40	11:54	1,814,117	1,839,635	25,518
7	21-Apr-22	12:00	12:14	1,707,193	1,825,831	118,638
8*	21-Apr-22	12:20	12:34	1,508,541	1,831,529	322,988
9*	21-Apr-22	12:40	12:54	1,506,838	1,832,273	325,435
10*	21-Apr-22	13:00	13:14	1,627,553	1,837,751	210,198
11	21-Apr-22	13:20	13:34	1,703,455	1,838,166	134,711
12	21-Apr-22	13:40	13:54	1,699,341	1,831,564	132,223
<b>Average</b>				1,715,422	1,820,236	104,814
<b>Confidence Coefficient (CC)</b>						33,060
<b>Relative Accuracy <sup>1/</sup> (Compared with RM) (%)</b>						7.57
<b>Relative Accuracy Criteria (Compared with RM)</b>						≤ 20 %

Reference Method : US EPA Method 2

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

<sup>1/</sup> Relative Accuracy Criteria of Flowrate is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 6 (PS-6)

RA Result is within Criteria

**Sampled By** : Anuvat Moungpai

**Technical Management**



Wichan Choonharat

Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**



Sarayuth Jittrantont

Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-4702

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## Analysis / Test Report

**Client** : Gulf JP UT Co., Ltd.  
999 Moo 1, Ban Chang, Uthai, Pranakhonsiyutthaya Thailand 13210  
**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147439**

Date Received : Apr 21, 2022  
Date Reported : Apr 25, 2022  
Report Number : 2179663-1

Page 1 of 4

**Sample Number** : 21147439-1  
**Sampled Date** : Apr 20, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 22  
**Parameter** : NOx

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	20 Apr 22	11:00	11:20	11.97	11.42	26.97	27.50	0.53
2	20 Apr 22	11:21	11:41	11.78	11.40	26.55	27.48	0.92
3	20 Apr 22	11:42	12:02	11.79	12.06	26.57	28.90	2.33
4	20 Apr 22	12:03	12:23	14.42	14.51	31.91	34.33	2.41
5	20 Apr 22	12:24	12:44	15.01	14.86	33.18	35.02	1.84
6	20 Apr 22	12:45	13:05	15.36	15.49	33.82	36.62	2.79
7	20 Apr 22	13:06	13:26	16.84	16.39	36.74	38.50	1.76
8	20 Apr 22	13:27	13:47	16.48	16.84	36.12	39.27	3.15
9*	20 Apr 22	13:48	14:08	18.62	19.05	40.11	44.09	3.98
10*	20 Apr 22	14:09	14:29	18.78	19.12	40.44	44.33	3.88
11	20 Apr 22	14:30	14:50	18.65	18.57	40.17	42.96	2.79
12*	20 Apr 22	14:51	15:11	18.84	19.27	40.59	44.47	3.88
<b>Average</b>						32.45	34.51	2.06
<b>Confidence Coefficient (CC)</b>								0.68
<b>Relative Accuracy (Compared with Emission Standard : 70 ppm) (%)</b>								3.91
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 70 ppm)</b>								≤ 10%

Reference Method : US EPA Method 7E

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

<sup>1/</sup> Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 70 ppm at 7%O2  
RA Result is within Criteria

Technical Management

  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-6113

Approved by

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

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999 Moo 1, Ban Chang, Uthai, Pranakhsaiyutthaya Thailand 13210  
**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147439**

Date Received : Apr 21, 2022  
Date Reported : Apr 25, 2022  
Report Number : 2179663-1

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**Sample Number** : 21147439-1  
**Sampled Date** : Apr 20, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 22  
**Parameter** : SO<sub>2</sub>

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O <sub>2</sub>		Corrected Value at 7% O <sub>2</sub>		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	20 Apr 22	11:00	11:20	0.46	0.82	1.04	1.97	0.94
2	20 Apr 22	11:21	11:41	0.46	0.82	1.03	1.98	0.95
3	20 Apr 22	11:42	12:02	0.50	0.88	1.12	2.10	0.98
4	20 Apr 22	12:03	12:23	0.48	0.86	1.06	2.02	0.96
5	20 Apr 22	12:24	12:44	0.48	0.85	1.07	2.01	0.94
6	20 Apr 22	12:45	13:05	0.46	0.82	1.02	1.93	0.92
7	20 Apr 22	13:06	13:26	0.46	0.80	1.00	1.88	0.88
8	20 Apr 22	13:27	13:47	0.45	0.78	1.00	1.82	0.82
9	20 Apr 22	13:48	14:08	0.47	0.87	1.02	2.00	0.98
10*	20 Apr 22	14:09	14:29	0.41	0.85	0.88	1.96	1.08
11*	20 Apr 22	14:30	14:50	0.43	0.93	0.92	2.15	1.24
12*	20 Apr 22	14:51	15:11	0.46	0.98	0.99	2.26	1.28
<b>Average</b>						1.04	1.97	0.93
<b>Confidence Coefficient (CC)</b>								0.04
<b>Relative Accuracy (Compared with Emission Standard : 10 ppm) (%)</b>								9.70
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 10 ppm)</b>								≤ 10%

Reference Method : US EPA Method 6C

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

<sup>1/</sup> Relative Accuracy Criteria of SO<sub>2</sub> is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 10 ppm at 7%O<sub>2</sub>  
RA Result is within Criteria

**Technical Management**

  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

  
Sarayuth Jitranont  
Assistant General Manager  
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**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147439**

Date Received : Apr 21, 2022  
Date Reported : Apr 25, 2022  
Report Number : 2179663-1

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**Sample Number** : 21147439-1  
**Sampled Date** : Apr 20, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 22  
**Parameter** : CO

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	20 Apr 22	11:00	11:20	231.04	225.96	520.32	543.94	23.62
2	20 Apr 22	11:21	11:41	242.46	230.93	546.57	556.43	9.86
3*	20 Apr 22	11:42	12:02	238.66	179.27	537.89	429.73	-108.16
4	20 Apr 22	12:03	12:23	106.51	108.00	235.71	255.53	19.81
5*	20 Apr 22	12:24	12:44	90.73	98.14	200.48	231.34	30.86
6	20 Apr 22	12:45	13:05	82.12	83.17	180.84	196.55	15.72
7	20 Apr 22	13:06	13:26	54.24	57.03	118.37	133.95	15.58
8	20 Apr 22	13:27	13:47	63.84	57.76	139.92	134.71	-5.21
9	20 Apr 22	13:48	14:08	23.56	21.81	50.74	50.47	-0.27
10	20 Apr 22	14:09	14:29	21.67	20.91	46.67	48.46	1.79
11	20 Apr 22	14:30	14:50	22.16	21.29	47.73	49.28	1.54
12	20 Apr 22	14:51	15:11	21.67	20.28	46.69	46.80	0.11
<b>Average</b>						157.03	163.58	6.55
<b>Confidence Coefficient (CC)</b>								6.80
<b>Relative Accuracy (Compared with Emission Standard : 690 ppm) (%)</b>								1.93
<b>Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard : 690 ppm)</b>								≤ 5%

Reference Method : US EPA Method 10

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

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

**Technical Management**

  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

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

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**P/O :** สัญญาเลขที่ 4600001481  
**Project Name :** Monitoring EIA  
**Project Location :** GUT

**Lot ID: 21147439**

Date Received : Apr 21, 2022  
Date Reported : Apr 25, 2022  
Report Number : 2179663-1

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**Sample Number** 21147439-1  
**Sampled Date** Apr 20, 2022  
**Sample Description** Emission from Stationary Source  
**Location** HRS22  
**Parameter** O2

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	20 Apr 22	11:00	11:20	14.73	15.13	0.40
2	20 Apr 22	11:21	11:41	14.73	15.13	0.40
3	20 Apr 22	11:42	12:02	14.73	15.10	0.37
4	20 Apr 22	12:03	12:23	14.62	15.02	0.41
5	20 Apr 22	12:24	12:44	14.61	15.00	0.39
6	20 Apr 22	12:45	13:05	14.59	15.02	0.43
7*	20 Apr 22	13:06	13:26	14.53	14.98	0.45
8	20 Apr 22	13:27	13:47	14.56	14.94	0.38
9*	20 Apr 22	13:48	14:08	14.45	14.89	0.45
10*	20 Apr 22	14:09	14:29	14.45	14.90	0.46
11	20 Apr 22	14:30	14:50	14.45	14.89	0.45
12	20 Apr 22	14:51	15:11	14.45	14.88	0.43
<b>Average</b>				14.61	15.01	0.41
<b>Confidence Coefficient (CC)</b>						-
<b>Relative Accuracy (Compared in Actual) (%)</b>						0.41
<b>Relative Accuracy Criteria (%)</b>						≤ 1%

Reference Method : US EPA Method 3A

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

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

RA Result is within Criteria

**Sampled By :** Anuvat Mounpair

**Technical Management**

Wichan Choonharat

Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

Sarayuth Jitranont

Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-4702

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## Analysis / Test Report

**Client** : Gulf JP UT Co., Ltd.  
999 Moo 1, Ban Chang, Uthai, Pranakhonsiyutthaya Thailand 13210  
**P/O** : สัญญาเลขที่ 4600001481  
**Project Name** : Monitoring EIA  
**Project Location** : GUT

**Lot ID: 21147449**

Date Received : Apr 21, 2022  
Date Reported : May 10, 2022  
Report Number : 2292509-2

Page 1 of 1

**Sample Number** : 21147449-1  
**Sampled Date** : Apr 20, 2022  
**Sample Description** : Emission from Stationary Source  
**Location** : HRSG 22  
**Parameter** : Flowrate

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (Nm3/Hr)	RM (Nm3/Hr)	
1	20-Apr-22	11:45	11:59	1,493,128	1,649,632	156,504
2	20-Apr-22	12:10	12:24	1,685,514	1,814,195	128,681
3	20-Apr-22	12:30	12:44	1,713,792	1,875,166	161,374
4	20-Apr-22	12:50	13:04	1,720,824	1,860,257	139,433
5	20-Apr-22	13:10	13:24	1,749,678	1,862,991	113,313
6	20-Apr-22	13:30	13:44	1,749,027	1,880,942	131,915
7*	20-Apr-22	13:50	14:04	1,734,103	1,899,351	165,248
8*	20-Apr-22	14:10	14:24	1,730,848	1,897,211	166,363
9*	20-Apr-22	14:30	14:44	1,722,712	1,896,154	173,442
10	20-Apr-22	14:50	15:04	1,786,235	1,879,516	93,281
11	20-Apr-22	15:10	15:24	1,792,237	1,871,096	78,859
12	20-Apr-22	15:30	15:44	1,814,266	1,871,803	57,537
<b>Average</b>				1,722,745	1,840,622	117,877
<b>Confidence Coefficient (CC)</b>						27,111
<b>Relative Accuracy <sup>1/</sup> (Compared with RM) (%)</b>						7.88
<b>Relative Accuracy Criteria (Compared with RM)</b>						≤ 20 %

Reference Method : US EPA Method 2

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

<sup>1/</sup> Relative Accuracy Criteria of Flowrate is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 6 (PS-6)

RA Result is within Criteria

**Sampled By :** Anuvat Moungpai

**Technical Management**

  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

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

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